BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

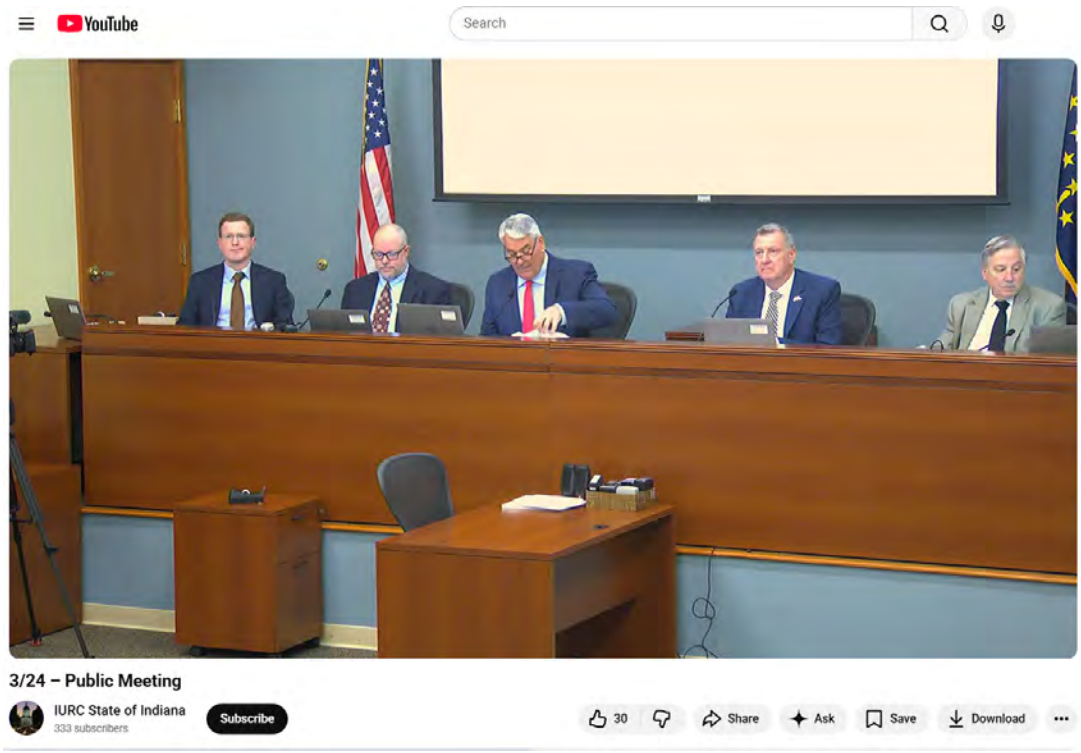
Exhibit 180
IURC Investigative Inquiry on Energy Affordability
(March 24, 2026)

Indiana Utility Regulatory Commission

Investigative Inquiry on Energy Affordability
(March 24, 2026)

Actual exhibit is a digital excerpt in .MP4 format of the video recording, from the 3:45:14 to 3:46:19 timestamps of the full recording.

Video recording of the full event is also available on YouTube at:
https://www.youtube.com/watch?v=uXEwNQdi3r0



BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 181
MISO January Filing

UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

Southern Indiana Gas and Electric Company	)	
	)	**Docket No. EL26-38-000**
v.	)	
Midcontinent Independent System Operator, Inc.	)	

ANSWER OF THE
MIDCONTINENT INDEPENDENT SYSTEM OPERATOR, INC.

The Midcontinent Independent System Operator, Inc. ("MISO" or "Respondent") submits[1] this Answer to the Southern Indiana Gas and Electric Company d/b/a CenterPoint Energy Indiana South ("SIGE" or "Company"). SIGE filed the Complaint in response to an order ("DOE Order") issued by the U.S. Secretary of Energy pursuant to Federal Power Act ("FPA") section 202(c) and section 301(b) of the Department of Energy Authorization Act.[2] The DOE Order determined "that an emergency exists in portions of the Midwest region of the United States due to a shortage of electric energy, a shortage of facilities for the generation of electric energy, and other causes."[3] To address that emergency, the DOE Order directs MISO and SIGE to take all measures necessary to ensure the that F.B. Culley Generating Station ("Culley") Unit 2, located in Warrick County, Indiana, is available to operate.[4] SIGE's Complaint requests that MISO's Open Access Transmission, Energy

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1 *See* Rules 206 and 213 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("FERC" or "Commission"), 18 C.F.R. § 385.206(f) (2025); 18 C.F.R. § 385.213 (2025).

2 U.S. Department of Energy, Order No. 202-25-13, at 1 (December 23, 2025) ("DOE Order").

3 DOE Order at 1.

4 DOE Order at 1,5.

and Operating Reserve Markets Tariff ("Tariff") be revised to permit recovery of costs incurred incident to the DOE Order and provides draft Tariff language for the Commission's review.

As recognized by the DOE in its May 23, 2025, 202(c) emergency order, MISO's Planning Resource Auction for the 2025-2026 Planning Year demonstrated sufficient capacity in the MISO Region.[5] While MISO does not intend to contest, within the context of this docket, the characterization within the Order that an emergency exists "due to a shortage of electric energy . . . [or] a shortage of facilities," it is important to recognize existing processes have cleared sufficient electric generating capacity across MISO for the periods of time covered by the Order. The clearing of sufficient capacity to meet anticipated demand across the MISO Region for the 2025-2026 Planning Year reflects the diligent efforts of MISO's members, Market Participants, Relevant Electric Retail Regulatory Authorities ("RERRA") and the Federal Energy Regulatory Commission ("FERC") to establish policies and processes that address both immediate and future capacity requirements. MISO continues to work with these parties in the context of anticipated growing demand for electricity, planned electric generating facility retirements, and an evolving mix of new electric generating resources to refine processes that address the challenges ahead. MISO is confident that these collaborative efforts do not require further intervention and will help ensure the region continues to procure sufficient capacity to meet demand.

MISO acknowledges that the DOE Order directs SIGE "to file with the Federal Energy Regulatory Commission Tariff revisions or waivers necessary to effectuate this order."[6] MISO also acknowledges that the DOE Order provides that "[r]ate recovery is available pursuant to 16 U.S.C. § 824a(c)."[7] MISO supports the addition of a cost recovery schedule to the Tariff, subject

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5 U.S. Department of Energy, Order No. 202-25-3, at 2 (May 23, 2025) ("May DOE Order").

6 DOE Order at 6.

7 DOE Order at 6.

to the reservations noted below and believes that a Commission finding that such a mechanism be incorporated in the Tariff would further compliance with the DOE Order by both SIGE and MISO.

I. BACKGROUND

The Secretary of Energy issued the DOE Order on December 23, 2025.[8] The DOE Order identifies an "emergency situation" in the MISO region due to MISO's "year-round resource adequacy concerns,"[9] citing MISO's 2022 filing to revise its resource adequacy construct, MISO's 2023 Attributes Roadmap, MISO's 2024 report titled MISO's Response to the Reliability Imperative, the North American Electric Reliability Corporation's ("NERC") 2024 Long-Term Reliability Assessment ("LTRA"), MISO's report of its 2025-2026 Planning Resource Auction ("PRA"), and the Organization of MISO States ("OMS") and MISO's 2025 survey results.[10] DOE additionally cites to executive orders issued by President Donald J. Trump on January 20, 2025, and April 8, 2025, as further evidence of "the dire energy challenges facing the Nation due to growing resource adequacy concerns"[11] and to a DOE Resource Adequacy Report, issued in July 2025, that "concluded that '[a]bsent decisive intervention, the Nation's power grid will be unable to meet projected demand for manufacturing, re-industrialization, and data centers driving artificial intelligence (AI) innovation.'"[12] The DOE Order notes that Culley Unit 2 was scheduled to cease operations in December 2025, and determines that the continued operation of the Unit "will best

8 DOE Order at 6.

9 DOE Order at 1.

10 DOE Order at 1-3.

11 DOE Order 4.

12 DOE Order at 4.

meet an emergency caused by a sudden increase in the demand for electric energy or a shortage of generation capacity."[13]

The DOE Order directs MISO and SIGE to "take all measures necessary to ensure that Culley Unit 2 is available to operate."[14] MISO is "directed to take every step to employ economic dispatch of Culley Unit 2 to minimize cost to ratepayers" and "to provide the [DOE] … with information concerning the measures it has taken and is planning to take to ensure the operational availability of Culley Unit 2 consistent with this Order."[15] MISO notes that it is working closely with SIGE to ensure that the Culley Unit 2 is available to operate in compliance with the DOE Order. The DOE Order states that, "[SIGE] is directed to file with the Federal Energy Regulatory Commission Tariff revisions or waivers to effectuate this Order."[16] The Order states, "[r]ate recovery is available pursuant to 16 U.S.C. § 824a(c)."[17]

II. ANSWER

A. The Tariff Does Not Currently Include a Mechanism to Allow Cost Recovery Pursuant to the DOE Order.

SIGE observes that there is no MISO Tariff provision that would permit SIGE's costs of complying with the DOE Order to be allocated to Load Serving Entities ("LSEs") in MISO's northern and central zones, and that MISO does not have the unilateral authority to offer SIGE a section 202(c) rate agreement.[18] MISO agrees. MISO acknowledges that its Tariff does not currently include a mechanism to allow SIGE's cost recovery as contemplated by the DOE Order.[19]

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[13] DOE Order at 1, 4.

[14] DOE Order at 5.

[15] DOE Order at 5.

[16] DOE Order at 6.

[17] DOE Order at 6.

[18] Complaint at 20.

[19] In response to the May DOE Order, MISO added Schedule 55 to its Tarriff to provide a cost recovery mechanism for Consumers Energy Company; Schedule 55 only provides a cost recovery mechanism for

As discussed below, MISO does not oppose the addition of a cost recovery schedule to its Tariff that would allow SIGE to recover its costs as contemplated by the DOE Order.

B. MISO Does Not Oppose the Addition of a Cost Recovery Schedule for the Recovery of These Costs, and Will File a Cost Recovery Schedule to the Extent Directed by the Commission.

MISO does not oppose the addition of a cost recovery schedule that would permit SIGE to recover the costs incurred as a result of its efforts to comply with the DOE Order. MISO will file such a schedule if directed by the Commission.

C. MISO Reserves Its Right to Modify or Otherwise Change the Cost Recovery Allocation Formula, As Necessary, to Account for Existing Tariff Requirements or Changes.

MISO reserves the right to modify, adjust, or otherwise change the cost recovery allocation formula proposed by SIGE, should it be necessary, to account for existing Tariff requirements and to include other clarifications as may be appropriate.[20]

III. ADMISSIONS AND DENIALS; AFFIRMATIVE DEFENSES

MISO denies all allegations in the Complaint not specifically and expressly admitted herein.[21]

IV. COMMUNICATIONS

All notices and communications with respect to this proceeding should be directed to:

Jacob Krouse*	James C. Holsclaw*
Deputy General Counsel – Regulatory	Taylor M. Carpenter
Michael Kessler	Calfee, Halter & Griswold, LLP
Managing Assistant General Counsel	3900 Salesforce Tower
Midcontinent Independent	111 Monument Circle

Consumers Energy Company, therefore additional schedules are needed to provide cost recovery mechanisms for SIGE and other effected facilities.

[20] The issue of whether to allocate costs on a demand or energy basis is pending before the Commission in Docket No. EL25-90-000. The Commission's decision in that docket may necessitate additional Tarriff changes to the proposed cost recovery mechanism at issue here.

[21] 18 C.F.R. § 385.213(c)(2)(i)-(ii) (2025).

System Operator, Inc.
720 City Center Drive
Carmel, Indiana 46032
Telephone: (317) 249-5400
jkrouse@misoenergy.org
mkessler@misoenergy.org

Indianapolis, Indiana 46204
Telephone: (317) 308-4266
jholsclaw@calfee.com
tcarpenter@calfee.com

V. CONCLUSION

WHEREFORE, MISO respectfully requests that the Commission accept this answer.

Respectfully submitted,

/s/ Michael Kessler
Michael Kessler
Managing Assistant General Counsel
Midcontinent Independent
System Operator, Inc.
720 City Center Drive
Carmel, IN 46032
Telephone: (317) 249-5400
mkessler@misoenergy.org

James C. Holsclaw
Taylor M. Carpenter
Calfee, Halter & Griswold, LLP
3900 Salesforce Tower 111
Monument Circle
Indianapolis, IN 46204
Telephone: (317) 308-4266
jholsclaw@calfee.com
tcarpenter@calfee.com

Counsel for Midcontinent Independent System Operator, Inc.

Dated: January 26, 2026

CERTIFICATE OF SERVICE

I hereby certify that I have on this day e-served a copy of this document upon all parties listed on the official service list compiled by the Secretary in the above-captioned proceeding, in accordance with the requirements of Rule 2010 of the Commission's Rules of Practice and Procedure (18 C.F.R. § 385.2010).

Dated this 26th day of January, 2026 in Carmel, Indiana.

/s/ Julie Bunn

Julie Bunn
Midcontinent Independent
System Operator, Inc.
720 City Center Drive
Carmel, IN 46032
317-249-5400

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 182
2026 DOE 202(c) Orders Webpage

An official website of the United States government Here's how you know

U.S. DEPARTMENT of ENERGY

2026 DOE 202(c) Orders

- On July 3, 2026, the Department of Energy (DOE) extended emergency DOE **Order No. 202-26-33A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order authorizes PJM to direct backup generation resources as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. PJM is authorized to call upon its Transmission Owners and Electric Distribution Companies to implement this order as needed. This order was extended pursuant to an application from PJM. This order is in effect beginning at 11:59 PM ET on July 3, 2026, and shall expire at 11:59 PM ET on July 7, 2026.

- On July 2, 2026, the Department of Energy (DOE) extended emergency DOE **Order No. 202-26-32A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order directs PJM to dispatch specified units and to order their operation as needed to maintain reliability. This order was extended pursuant to an application from PJM submitted. This order is effective upon its issuance and shall expire at 11:59 PM ET on July 6, 2026.

- On July 2, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-34**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC ("DEC") and Duke Energy Progress, LLC ("DEP") (collectively, "Duke Energy")**. The order was issued subsequent to Duke Energy's application. The order authorizes Duke Energy to operate specified units up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is effective July 2, 2026, upon issuance, and shall expire at 10:00 PM EDT on July 6, 2026

- On June 30, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-33**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order authorizes PJM to direct backup generation resources as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. PJM is authorized to call upon its Transmission Owners and Electric Distribution Companies to implement this order as needed. This order was issued pursuant to application from PJM submitted on June 27, 2026. This order is in effect beginning at 11:59 PM ET on June 30, 2026, and shall expire at 11:59 PM ET on July 3, 2026.

- On June 30, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-32**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order directs PJM to dispatch specified units and to order their operation as needed to maintain reliability. This order was issued pursuant to application from PJM submitted on June 29, 2026. This order is in effect beginning at 11:59 PM ET on June 30, 2026, and shall expire at 11:59 PM ET on July 3, 2026.

- On June 26, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202–26–31**, pursuant to section 202(c) of the Federal Power Act, to **Tri-State Generation and Transmission Association (Tri-**

State), Platte River Power Authority, Salt River Project, PacifiCorp, and Public Service Company of Colorado (a subsidiary of Xcel Energy) ("co-owners"). The order directs Tri-State and the co-owners to take all measures necessary to ensure that Craig Unit 1 is available to operate at the direction of the Southwest Power Pool (SPP). For the duration of this order, SPP is directed to take every step to employ economic dispatch of Craig Unit 1 to minimize costs to ratepayers. This order is in effect beginning on June 29, 2026, through September 26, 2026.

- On June 18, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-30**, pursuant to section 202(c) of the Federal Power Act, to CenterPoint Energy and the Midcontinent Independent System Operator, Inc. (MISO). The order directs CenterPoint Energy and MISO to take all measures necessary to ensure that Unit 2 at the **F.B. Culley Generating Station** in Warrick County, Indiana is available to operate and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on June 22, 2026, through September 19, 2026.

- On June 18, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-29**, pursuant to section 202(c) of the Federal Power Act, to Northern Indiana Public Service Company (NIPSCO) and the Midcontinent Independent System Operator, Inc. (MISO). The order directs NIPSCO and MISO to take all measures necessary to ensure that Units 17 and 18 at the **Schahfer Generating Station** in Wheatfield, Indiana are available to operate and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on June 22, 2026, through September 19, 2026.

- On June 12, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-28**, pursuant to section 202(c) of the Federal Power Act, to **TransAlta Centralia Generation LLC (TransAlta)**. The order directs TransAlta to ensure Unit 2 of the Centralia Generating Station in Centralia, Washington remains available to operate. This order is in effect

beginning on June 15, 2026, through September 12, 2026.

- On June 11, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-27**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC ("DEC") and Duke Energy Progress, LLC ("DEP") (collectively, "Duke Energy")**. The order was issued subsequent to Duke Energy's applications. The order authorizes Duke Energy to operate specified units located within Duke Energy's service territory to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning at 4:00 PM ET on June 11, 2026, and shall expire at 10:00 PM ET on June 12, 2026.

- On June 4, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-26**, pursuant to section 202(c) of the Federal Power Act, to the Orlando Utilities Commission (OUC). The order directs OUC to ensure that Unit 1 at the **Stanton Energy Center (Stanton)** in Orlando, Florida remains available to operate. This order is in effect beginning on June 4, 2026 through September 1, 2026.

- On May 21, 2026, Department of Energy (DOE) issued emergency DOE **Order No. 202-26-25**, pursuant to section 202(c) of the Federal Power Act, for Unit 4 at the **Wagner Generating Station**. The order authorizes PJM Interconnection, L.L.C. (PJM), in coordination with the Talen Energy Corporation, to run Unit 4 at the Wagner Generating Station in Anne Arundel County, Maryland to meet anticipated electricity demand. This order is in effect beginning on May 22, 2026 and continues until August 19, 2026.

- On May 21, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-24**, pursuant to section 202(c) of the Federal Power Act, to PJM Interconnection, L.L.C. (PJM). The order directs PJM, in coordination with Constellation Energy Corporation, to ensure Units 3

and 4 of the **Eddystone Generating Station** in Pennsylvania remain available to operate and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on May 25, 2026, through August 22, 2026.

- On May 18, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-23**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order authorizes PJM to deploy backup generation resources at data centers and other major facilities. PJM is authorized to call upon its Transmission Owners and Electric Distribution Companies to implement this order as needed. The order follows a request for the action that PJM submitted on May 17, 2026. This order is in effect from May 18, 2026 through May 20, 2026.

- On May 18, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-22**, pursuant to section 202(c) of the Federal Power Act, to the **Midcontinent Independent System Operator (MISO)**, in coordination with Consumers Energy. The order directs MISO to ensure that the J.H. Campbell coal-fired power plant in West Olive, Michigan remains available to operate and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on May 19, 2026 and continues until August 16, 2026.

- On May 11, 2026, the Department of Energy (DOE) issued emergency orders **No. 202-25-1D** and **No. 202-25-2D**, pursuant to section 202(c) of the Federal Power Act, to the **Puerto Rico Electric Power Authority (PREPA)**. PREPA is ordered to operate specified generation units under certain circumstances, perform vegetation management, and asset management to ensure operational availability of specified transmission facilities. The orders are in effect beginning on May 12, 2026 through August 9, 2026.

- On March 30, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202–26–21**, pursuant to section 202(c) of the Federal

Power Act, to **Tri-State Generation and Transmission Association (Tri-State), Platte River Power Authority, Salt River Project, PacifiCorp, and Public Service Company of Colorado (Xcel Energy) ("co-owners")**. The order directs Tri-State and the co-owners, in coordination with the Western Area Power Administration (WAPA) Rocky Mountain Region and Southwest Power Pool (SPP), to take all measures necessary to ensure that Unit 1 at the Craig Station in Craig, Colorado is available to operate. This order is in effect beginning on March 31, 2026, through June 28, 2026.

- On March 23, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-20**, pursuant to section 202(c) of the Federal Power Act, to **CenterPoint Energy and the Midcontinent Independent System Operator, Inc. (MISO).** The order directs CenterPoint Energy and MISO to take all measures necessary to ensure that Unit 2 at the F.B. Culley Generating Station in Warrick County, Ind. is available to operate. This order is in effect beginning on March 24, 2026, through June 21, 2026.

- On March 23, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-19**, pursuant to section 202(c) of the Federal Power Act, to **Northern Indiana Public Service Company (NIPSCO) and the Midcontinent Independent System Operator, Inc. (MISO)**. The order directs NIPSCO and MISO to take all measures necessary to ensure that Units 17 and 18 at the Schahfer Generating Station in Wheatfield, Ind. are available to operate. This order is in effect beginning on March 24, 2026, through June 21, 2026.

- On March 16, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-18**, pursuant to section 202(c) of the Federal Power Act, to **TransAlta Centralia Generation LLC (TransAlta)**. The order directs TransAlta to ensure Unit 2 of the Centralia Generating Station in Centralia, Washington remains available for operation. This order is in

effect beginning on March 17, 2026, through June 14, 2026.

- On February 23, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-17**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order directs PJM, in coordination with Constellation Energy Corporation, to ensure Units 3 and 4 of the Eddystone Generating Station in Pennsylvania remain available for operation and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on February 24, 2026, through May 24, 2026.

- On February 17, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-16**, pursuant to section 202(c) of the Federal Power Act, to the **Midcontinent Independent System Operator (MISO)**, in coordination with Consumers Energy. The order directs MISO to ensure that the J.H. Campbell coal-fired power plant in West Olive, Michigan remains available for operation and to employ economic dispatch to minimize costs for the American people. This order is in effect beginning on February 17, 2026 and continues until May 18, 2026.

- On February 10, 2026, the Department of Energy (DOE) issued emergency DOE orders **No. 202-25-1C** and **No. 202-25-2C**, pursuant to section 202(c) of the Federal Power Act, to the **Puerto Rico Electric Power Authority (PREPA)**. PREPA is ordered to operate specified generation units under certain circumstances, perform vegetation management, and asset management to ensure operational availability of specified transmission facilities. The orders are in effect beginning on February 10, 2026, and continue until May 11, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-15**, pursuant to section 202(c) of the Federal Power Act, to **Orlando Utilities Commission (OUC)**. The order was issued subsequent to OUC's application. This order authorizes certain backup generating units located within OUC's service areas to operate

up to their maximum generation output levels notwithstanding air emissions or other permit limitations. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 6, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-14**, pursuant to section 202(c) of the Federal Power Act, to the city of Lakeland, Florida, on behalf of **Lakeland Electric (Lakeland)**. The order was issued subsequent to Lakeland's application. In the event that Lakeland Electric determines that generation from the Specified Resources is necessary to meet the electricity demand that Lakeland Electric anticipates in its service area, Lakeland Electric can dispatch such unit or units and to order their operation only as needed to maintain reliability. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 6, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-13**, pursuant to section 202(c) of the Federal Power Act, to **Florida Municipal Power Agency (FMPA)**. The order was issued subsequent to FMPA's application. The order authorizes certain backup generating units located within the FMPA service areas to operate up to their maximum generation output level notwithstanding air emissions or other permit limitations. The order is in effect January 31, 2026, until 10:00 a.m. EST on February 3, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-12**, pursuant to section 202(c) of the Federal Power Act, to **Florida Municipal Power Agency (FMPA)**. This order was issued subsequent to FMPA's application. This order authorizes FMPA's generating units located within the FMPA region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 31, 2026, and shall expire at 10:00 a.m. EST on February 3, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-11**, pursuant to section 202(c) of the Federal Power Act, to **Orlando Utilities Commission (OUC)**. The order was issued subsequent to OUC application. The order authorizes OUC's generating units located within the OUC region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 31, 2026, and shall expire at 10:00 a.m. EST on February 6, 2026.

- On January 31, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-10**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Florida, LLC (Duke)**. The order was issued subsequent to Duke's application. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 31, 2026, and shall expire at 12:00 PM EST on February 3, 2026.

- On January 30, 2026, the Department of Energy (DOE) issued emergency DOE **Order No. 202-26-09**, pursuant to section 202(c) of the Federal Power Act, to **Homestead Public Services (HPS) Energy (HPS/Energy)**. The order was issued subsequent to HPS/Energy's application. The order authorizes HPS/Energy's generating units located within the HPS/Energy region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 30, 2026, and shall expire at 10:00 a.m. EST on February 3, 2026.

- On January 30, 2026, the Department of Energy (DOE) extended emergency DOE **Order No. 202-26-03A**, pursuant to section 202(c) of the Federal Power Act, to **ISO New England Inc. (ISO-NE)**. The order was

extended subsequent to ISO-NE's application. The order authorizes ISO-NE's generating units located within the ISO-NE region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 30, 2026, and shall expire at 11:59 p.m. EST on February 14, 2026.

- On January 30, 2026, the Department of Energy (DOE) extended an emergency **Order No. 202-26-07A**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC and Duke Energy Progress (collectively, Duke Energy)**. The order was extended subsequent to Duke Energy's application. The order authorizes Duke Energy to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. The order is in effect beginning on January 30, 2026, and shall expire at 12:00 p.m. EST on February 3, 2026.

- On January 29, 2026, the Department of Energy (DOE) extended emergency **Order No. 202-26-02A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The orders were extended subsequent to PJM's application. The order allows PJM to run all electric generating units located within the PJM Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is effective upon its issuance and shall expire at 11:59 p.m. EST on February 2, 2026.

- On January 29, 2026, the Department of Energy (DOE) extended an emergency **Order No. 202-26-06A**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The orders were extended subsequent to PJM's application. The order authorizes PJM to direct backup generation resources at data centers and other

large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on February 2, 2026.

- On January 29, 2026, the Department of Energy (DOE) extended emergency **Order No. 202-26-05A**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy (Duke)**. The order was extended subsequent to Duke's applications. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. The order is in effect beginning on January 29, 2026, and shall expire at 12:00 p.m. EST on February 3, 2026.

- On January 26, 2026, the Department of Energy issued an emergency **Order No. 202-26-08**, pursuant to section 202(c) of the Federal Power Act, to **New York ISO (NYISO)**. The order was issued subsequent to NYISO's application. The order allows NYISO to run all electric generating units located within the NYISO Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is in effect beginning on January 26, 2026, and continues until February 2, 2026.

- On January 26, 2026, the Department of Energy (DOE) issued an emergency **Order No. 202-26-07**, pursuant to section 202(c) of the Federal Power Act, to **Duke Energy Carolinas, LLC and Duke Energy Progress (collectively, Duke Energy)**. The order was issued subsequent to Duke Energy's application. The order authorizes Duke Energy to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 30, 2026.

- On January 26, 2026, the Department of Energy (DOE) issued an emergency **Order No. 202-26-06**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order was issued subsequent to PJM's application. The order authorizes PJM to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 31, 2026.

- On January 26, 2026, the Department of Energy (DOE) issued emergency **Order No. 202-26-05**, pursuant to section 202(c) of the **Federal Power Act, to Duke Energy (Duke)**. The order was issued subsequent to Duke's applications. The order authorizes Duke's generating units located within the Duke region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning at 12:00 a.m. EST on January 27, 2026, and shall expire at 12:00 p.m. EST on January 30, 2026.

- On January 25, 2026, the Department of Energy (DOE) issued emergency **Order No. 202-26-04** pursuant to section 202(c) of the Federal Power Act, to the **Electric Reliability Council of Texas (ERCOT)**. The order was issued subsequent to ERCOT's application. In the event that ERCOT determines that generation from the Specified Resources is necessary to meet the electricity demand that ERCOT anticipates in its service territory, ERCOT is directed to dispatch such unit or units and to order their operation only as needed to maintain reliability. This Order shall be effective upon its issuance, and shall expire at 11:59 PM EST on January 27, 2026.

- On January 25, 2026, the Department of Energy (DOE) issued emergency **Order No. 202-26-03**, pursuant to section 202(c) of the Federal Power Act, to **ISO New England Inc. (ISO-NE)**. The order was

issued subsequent to ISO-NE's application. The order authorizes ISO-NE's generating units located within the ISO-NE region to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations arising under federal, state, or local law or regulation, or other applicable source of law. This order is in effect beginning on January 25, 2026, and shall expire at 11:59 p.m. EST on January 31, 2026.

- On January 25, 2026, the Department of Energy (DOE) issued emergency **Order No. 202-26-02**, pursuant to section 202(c) of the Federal Power Act, to **PJM Interconnection, L.L.C. (PJM)**. The order was issued subsequent to PJM's application. The order allows PJM to run all electric generating units located within the PJM Region and to operate up to their maximum generation output levels, notwithstanding air quality or other permit limitations or fuel shortages during the pendency of this emergency. This order is in effect beginning on January 25, 2026 and shall expire at 11:59 p.m. EST on January 31, 2026.

- On January 24, 2026, the Department of Energy (DOE) issued emergency **Order No. 202-26-01**, pursuant to section 202(c) of the Federal Power Act, to the **Electric Reliability Council of Texas**. The order was issued subsequent to ERCOT's application. The order authorizes ERCOT to direct backup generation resources at data centers and other large load customers to operate as a last resort before declaring an Energy Emergency Alert (EEA) 3 or during an EEA 3. This order is in effect immediately and shall expire at 11:59 p.m. EST on January 27, 2026.

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BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

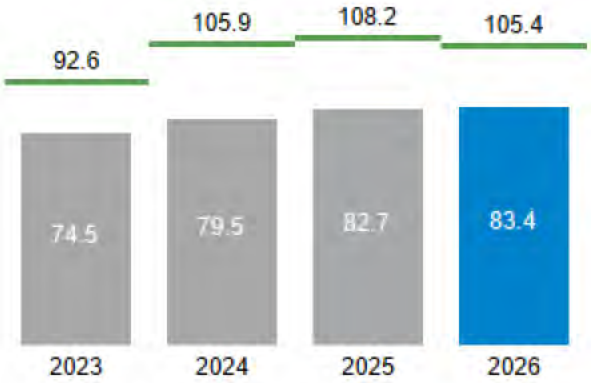
Exhibit 183
MISO January Operations Report

MISO Monthly Operations Report

January 2026

Reliability, markets and operational functions performed as expected in January

AVERAGE & PEAK LOAD (GW)



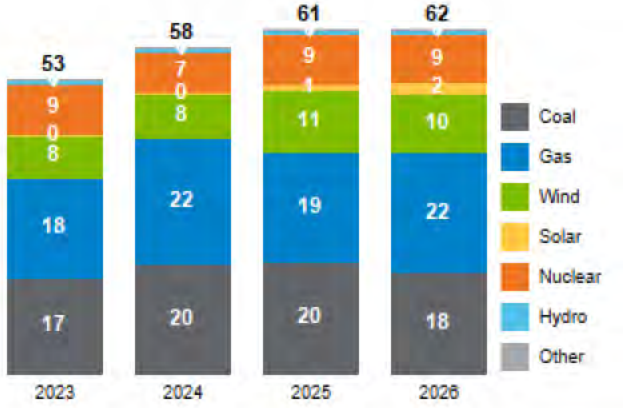
SYSTEM-WIDE LOAD PEAK

105 GW

January 27, Hour Ending (HE) 9

SOLAR PEAK	WIND PEAK
13.7 GW	**26.6 GW**
Jan 30, 2026, HE 15	Jan 13, 2026, HE 20

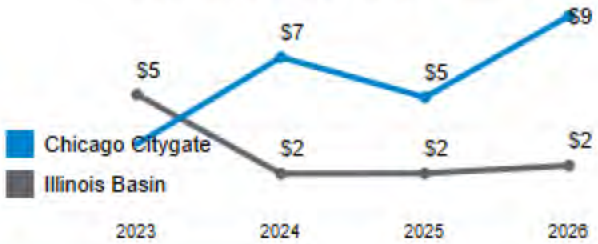
ENERGY FUEL MIX (TWh)



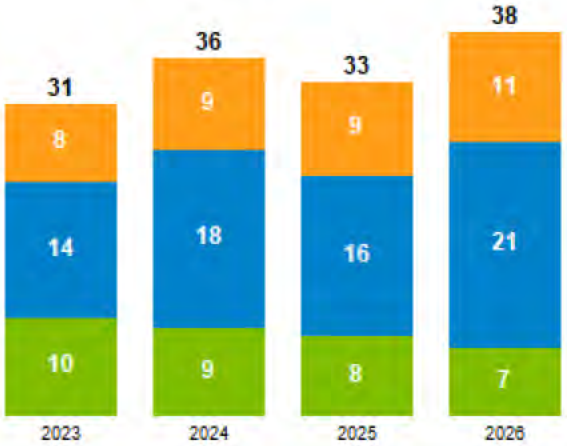
REAL-TIME LMP ($/MWh)



AVERAGE FUEL PRICE ($MMBtu)

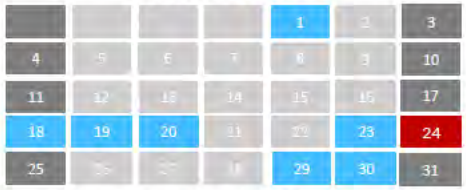


AVERAGE DAILY GENERATION OUTAGE (GW)



KEY OPERATING DECLARATIONS

JANUARY 2026



1/1 System: Local Transmission Emergency
1/18 South: Load Pocket Advisory
1/19 System: Cold Weather Alert
1/19 System: Geomagnetic Disturbance Warning
1/20 System: Severe Weather Alert
1/23 System: Cold Weather Alert
1/23 System: Conservative Operations
1/24 System: Max Gen Warning
1/24 System: Max Gen Event
1/29 Central: Capacity Advisory
1/30 MISO: Conservative Operations

- *All-Time Solar Peak: 15.7 GW on Feb 7, 2026, HE 12*
- *All-Time Wind Peak: 26.6 GW on Jan 13, 2025, HE 20*
- *All-Time Load Peak: 127.1 GW on Jul 20, 2011, HE17*

Awareness and Weather
Alerts and Warnings
Reliability Actions and Events

Dashboard

Metric	Chart	Jan 2026	Dec 25	Nov 25	Oct '25	Metric	Chart	Jan 2026	Dec 25	Nov 25	Oct '25
Market Efficiency Metric	D	●	▼	●	●	Unit Commitment Efficiency	H	●	●	●	●
Percentage Price Deviation	A	▼	●	●	●	Day Ahead Wind Generation Forecast Error	K	●	●	●	●
Monthly Average Gross Virtual Profitability	B	●	●	●	●	Day-Ahead Solar Generation Forecast Error	T	●	●	●	●
FTR Funding	C	●	●	●	●	Tie Line Error	L	●	●	●	●
RSG per MWh to Energy Price	E	▼	■	●	■	Control Performance – BAAL	M	●	●	●	●
Day Ahead Mid-Term Load Forecast	F	●	●	●	●	Control Performance – CPS1 and CPS1 12-month rolling	N	●	●	●	●
Short-Term Load Forecast	G	●	●	●	●	ARS Deployment	P	●	●	●	●
Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	●	●	●	●						
System Impact Study Performance	Q	●	●	●	●	Settlement Disputes	S	●	●	●	●

● *Expected* ■ *Concern/Monitor* ▼ *Review*

Note: Dashboard metric criteria are reviewed and revised each year and is included in the Appendix.

Two metrics fell outside of the expected range for this month

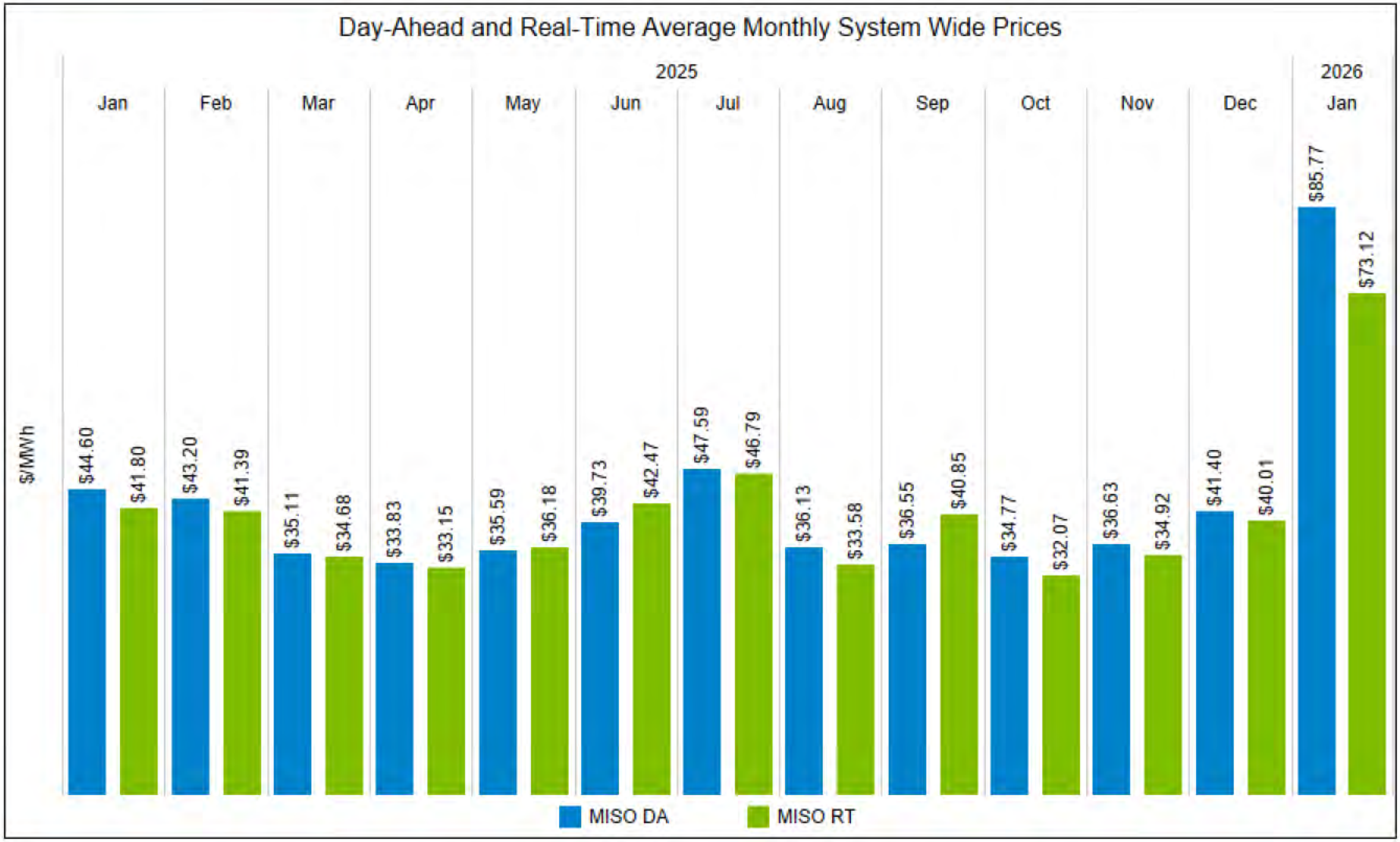
Metric	Expected Criteria	Actual	Status	Comments
RSG per MWh to Energy Price	<=0.38%	1.87%	Review	$78M paid to higher priced resources following LMP signals to fill the void left by underperforming units and increased load in Real-Time during Winter Storm Fern and the subsequent operating days. This seven -day period accounted for 91% of the total RSG paid for the month of January 2026.
Percentage Price Deviation	<=28.6%	44.5%	Review	Periods of congestion and Real-Time ancillary service product scarcity pricing throughout the month resulted in some price divergence between the Day-Ahead and Real-Time markets specifically during Winter Storm Fern from Jan 23 - 27

Appendix

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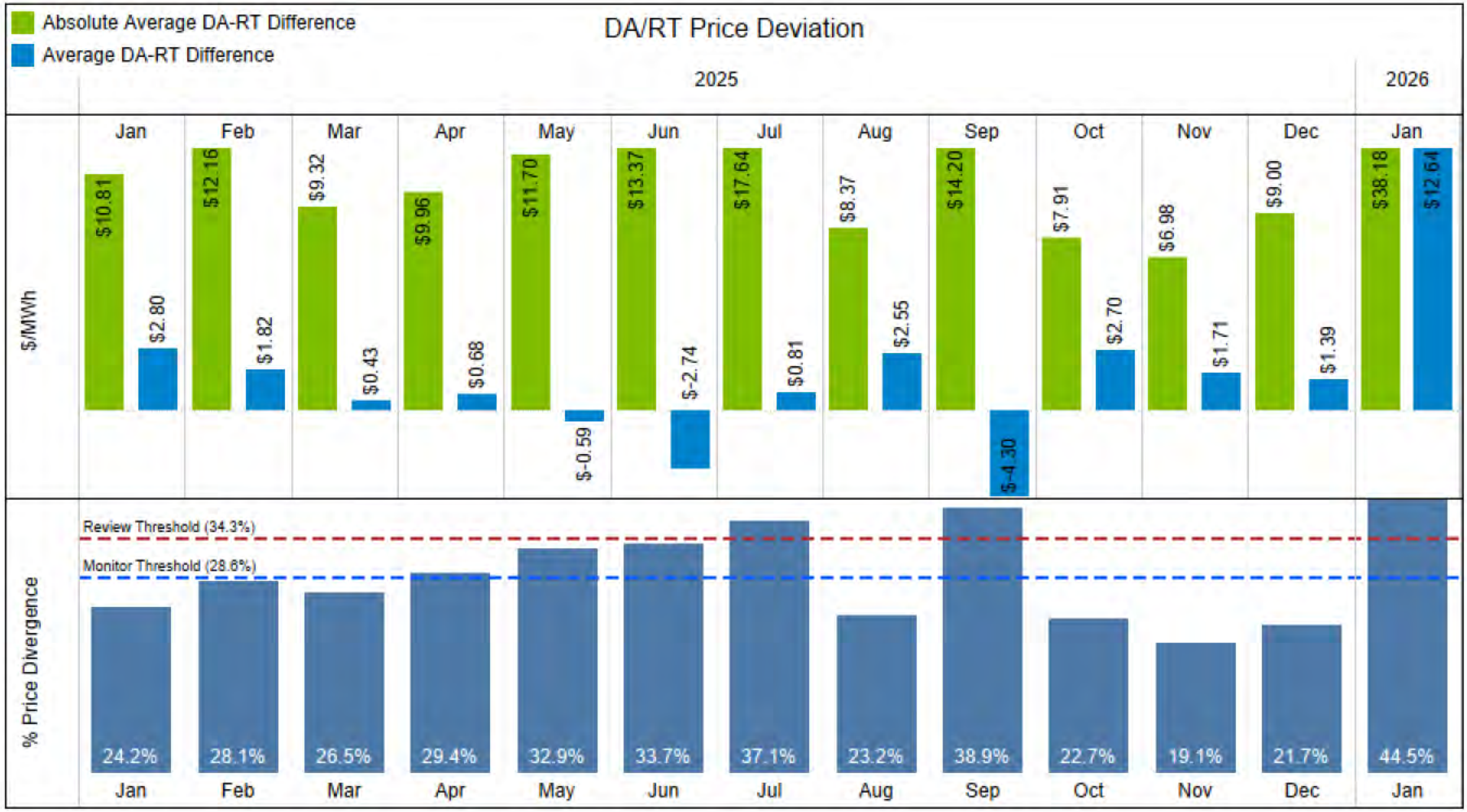
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MISO System-wide Day-Ahead and Real-Time Locational Marginal Pricing



Note: MISO System-Wide price is based on the monthly hourly average of the active hubs
Source: MISO Market and Operations Analytics Department

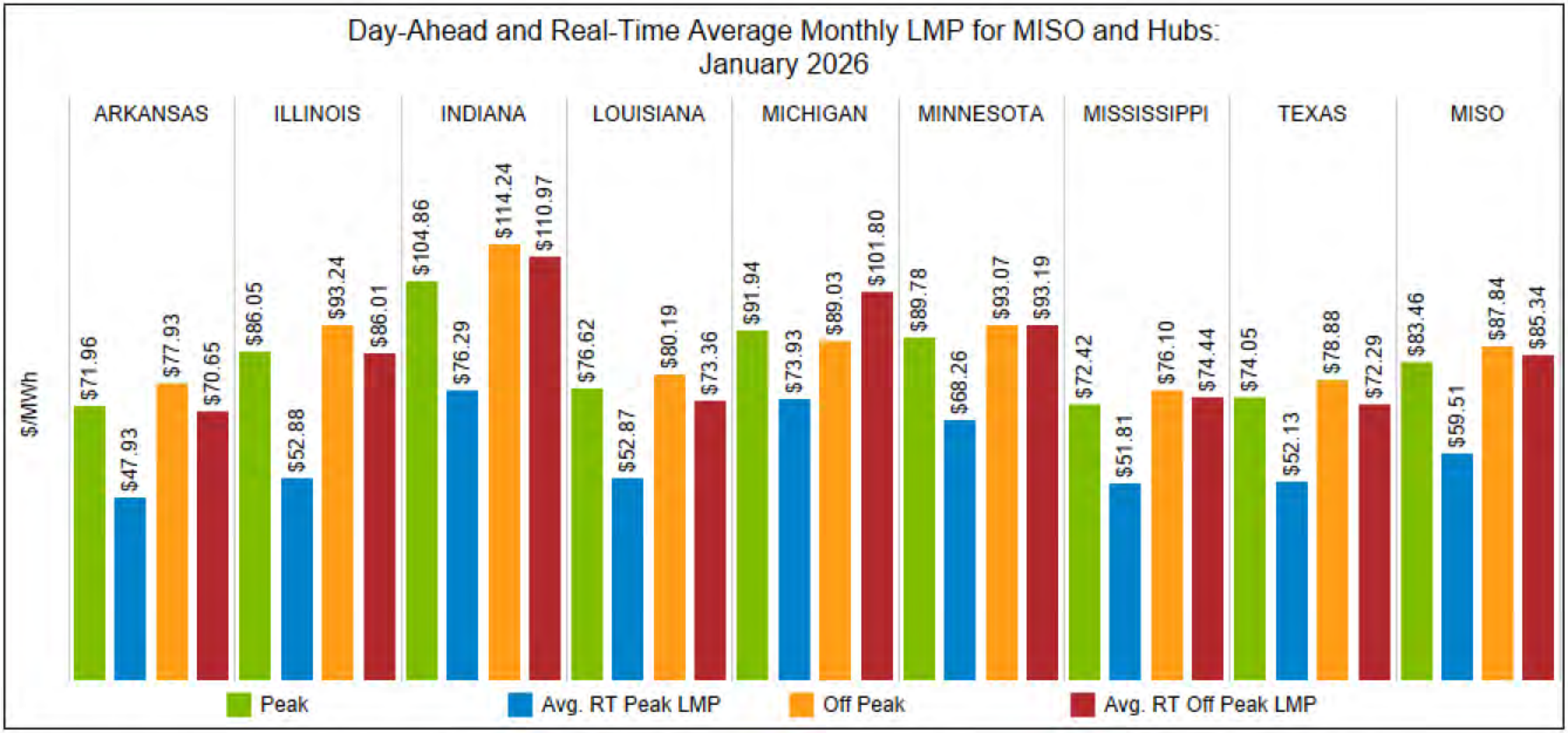
Price Convergence: Day-Ahead and Real-Time Locational Marginal Pricing



**Monthly deviation, expressed as a percent of average DA LMP, is calculated as the average of hourly absolute (DA-RT) price difference divided by the average of hourly DA LMPs for the month*

Note: MISO System-Wide price is based on the monthly hourly average of the active trading hubs
Source: MISO Market and Operations Analytics Department

MISO Day-Ahead and Real-Time Hub Locational Marginal Pricing



		ARKANSAS	ILLINOIS	INDIANA	LOUISIANA	MICHIGAN	MINNESOTA	MISSISSIPPI	TEXAS	MISO
Marginal Congestion Component of LMP ($/MWh)	DA Peak	-19.42	-3.80	7.01	-18.00	-4.12	0.56	-20.99	-19.98	-9.84
	RT Peak	-14.69	-10.33	9.05	-11.81	7.01	0.66	-12.45	-12.20	-5.59
	DA Off Peak	-20.60	-3.03	8.97	-20.14	-15.13	-3.49	-23.69	-21.34	-12.31
	RT Off Peak	-23.06	-8.46	11.41	-21.85	4.22	-6.87	-20.58	-22.51	-10.96

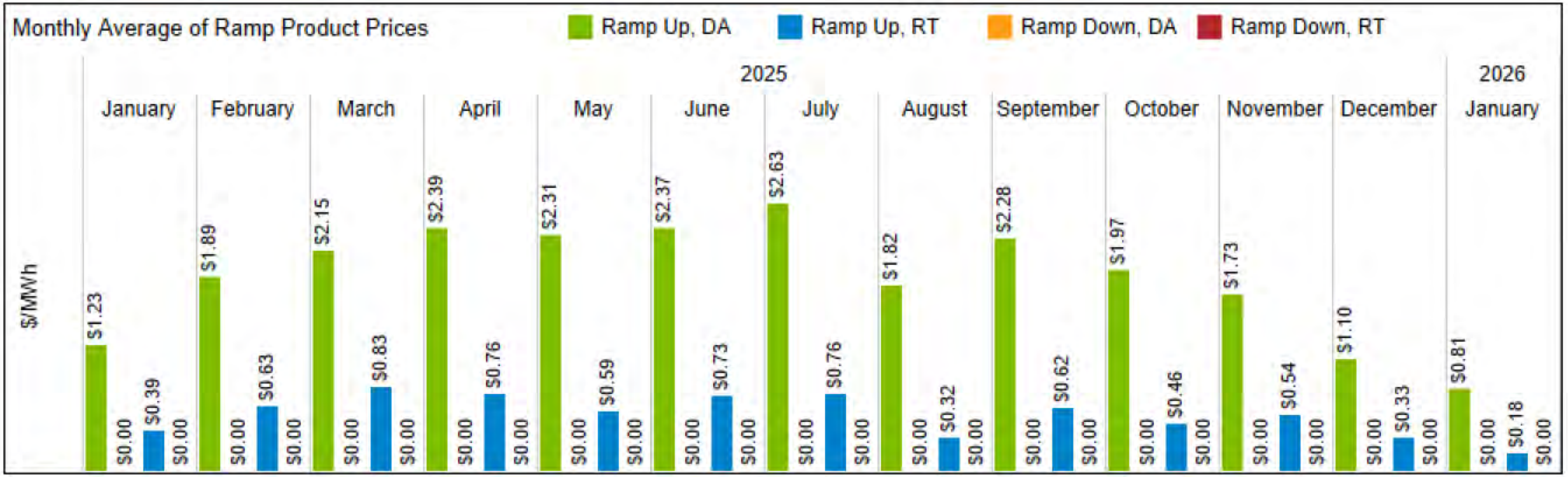
Source: MISO Market and Operations Analytics Department

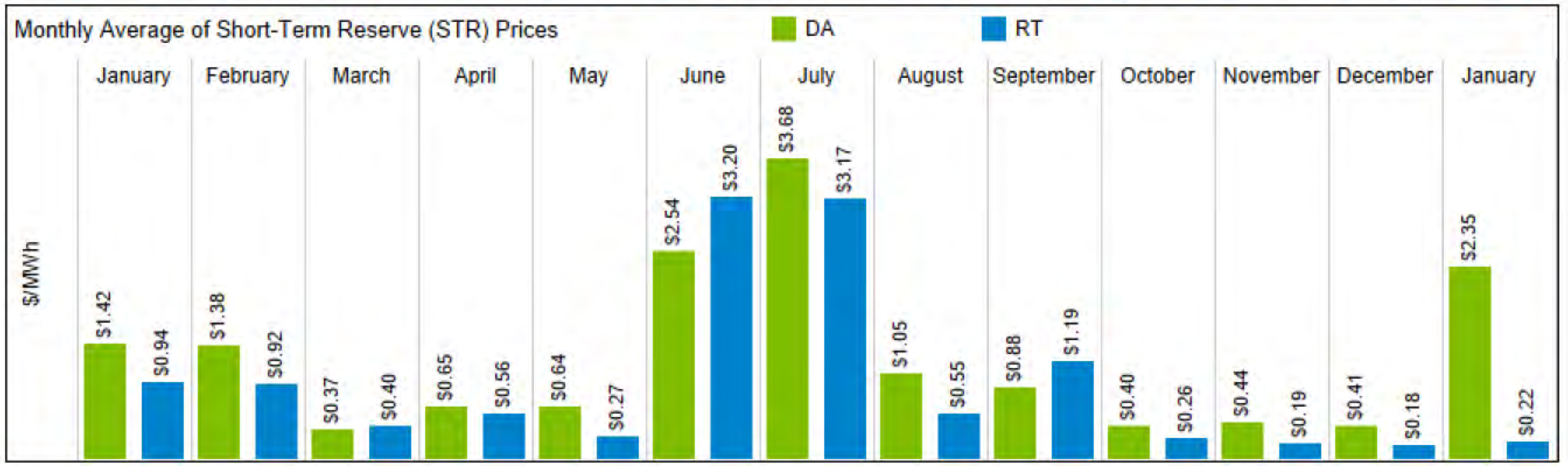
Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices



Source: MISO Market and Operations Analytics Department

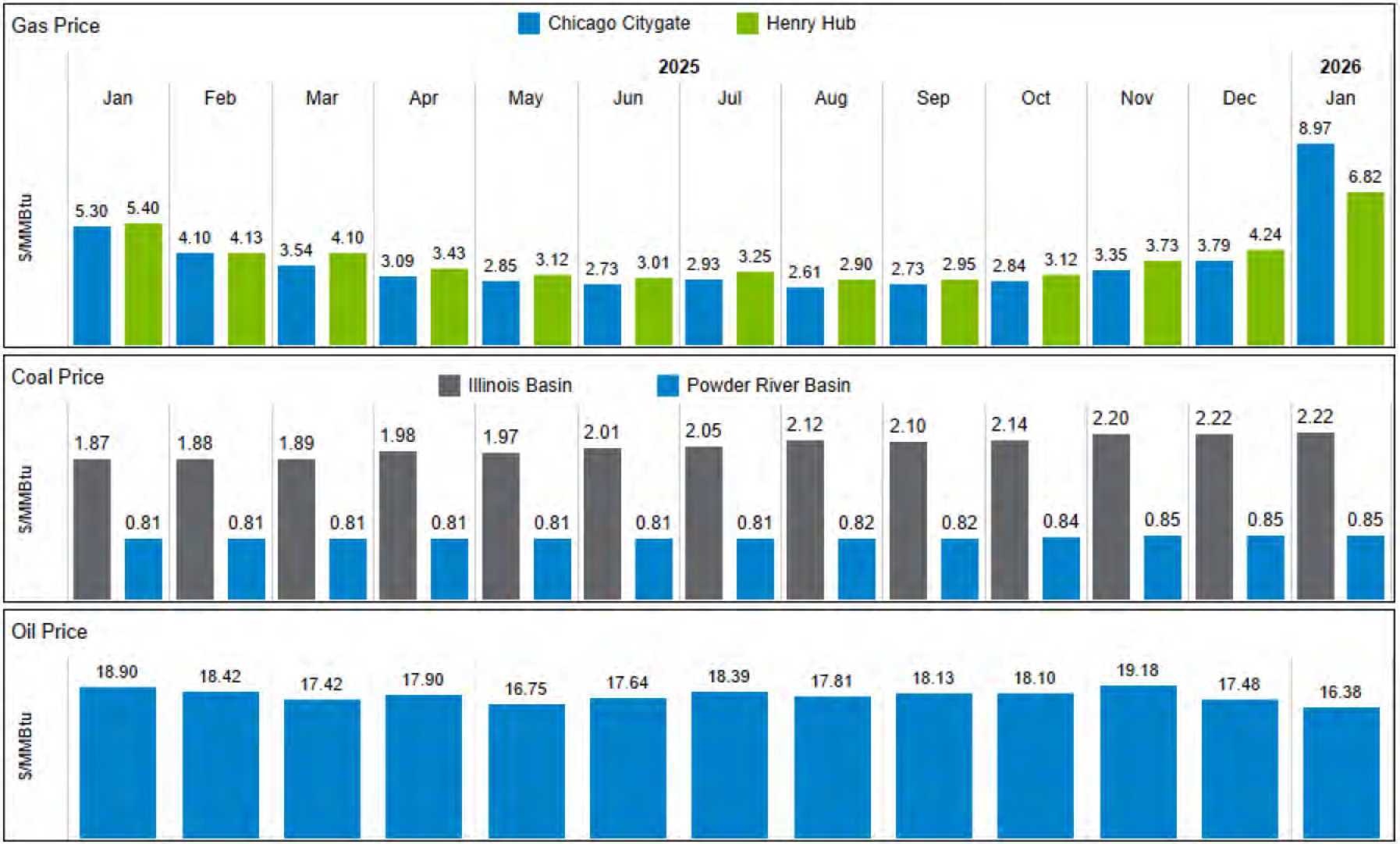
Ancillary Services - Day-Ahead and Real-Time Market Clearing Prices





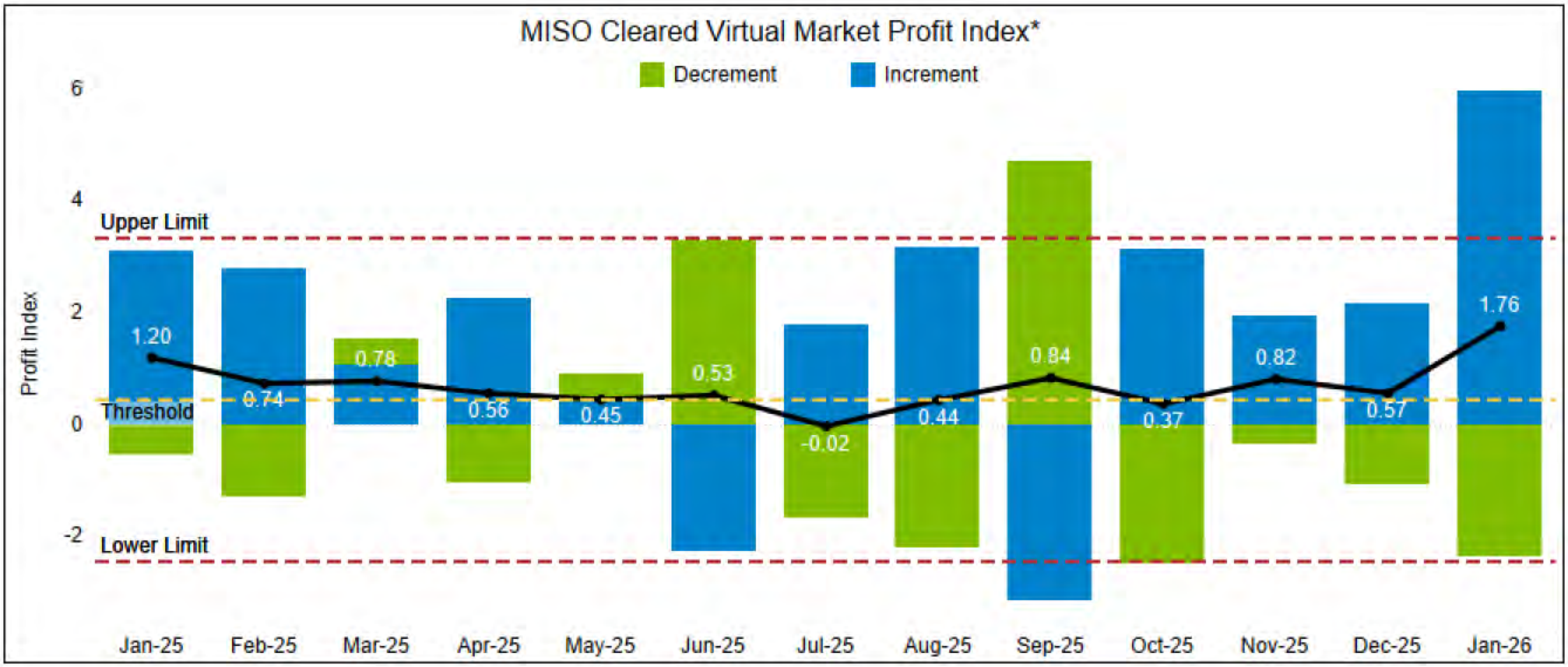
Source: MISO Market and Operations Analytics Department

Nominal Fuel Prices



Monthly oil prices are estimates and subject to change upon finalization
Source: EIA

Monthly Average Gross Virtual Profitability



Monthly Standard Deviation

Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
1.81	2.21	1.16	1.15	2.04	1.61	2.64	1.01	1.47	0.75	1.03	1.50	8.36

** The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions.*

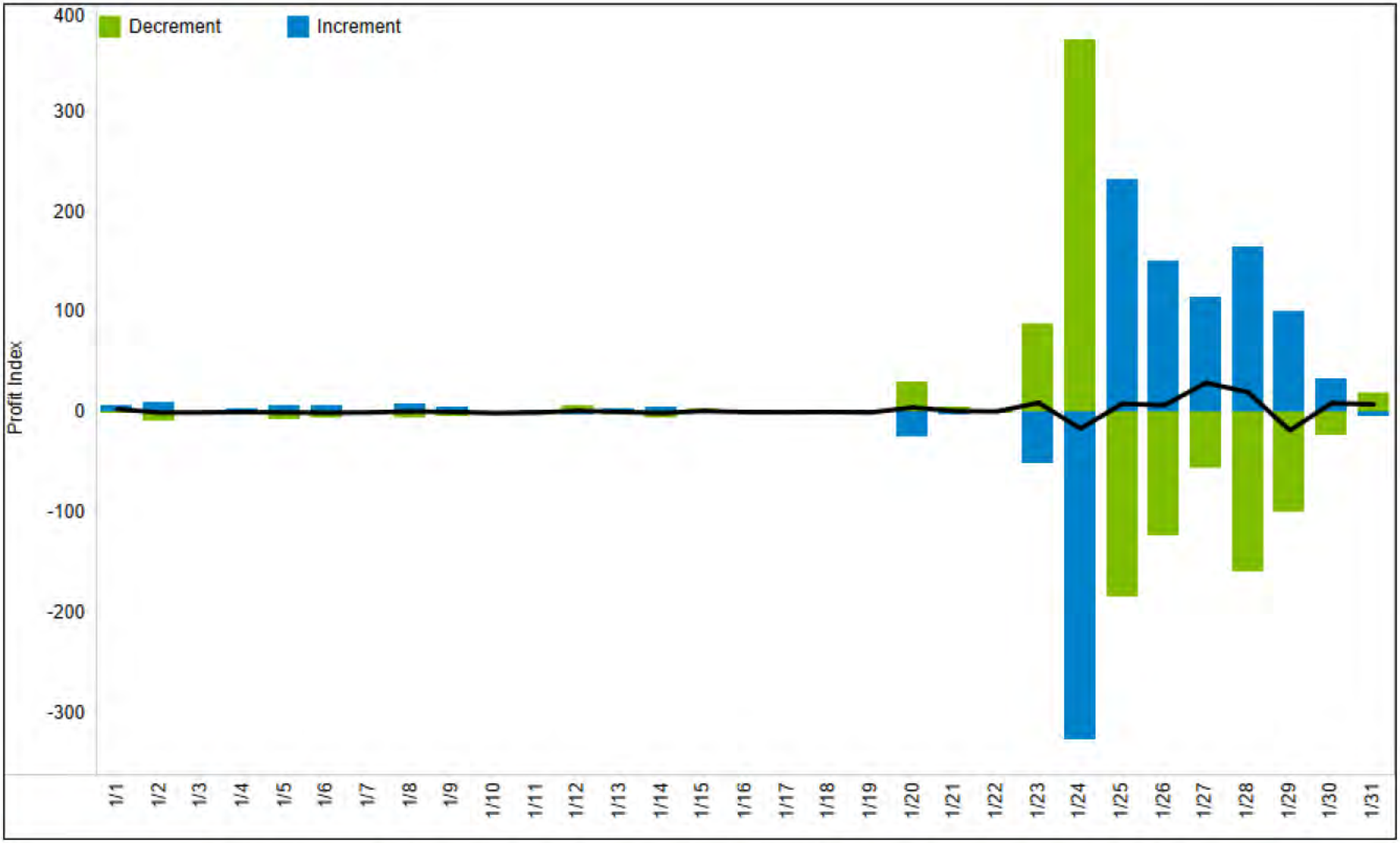
** Virtual profits/losses are calculated by multiplying the cleared virtual MW and the imbalance between RT LMP and DA LMP for a cpnode, then summed across all cpnodes, all hours.*

** Upper Limit is Threshold (average of monthly indices from the previous year) plus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusive)*

** Lower Limit is Threshold (average of monthly indices from the previous year) minus Daily Average Standard Deviation for the previous 13 months (current reporting month inclusi..*

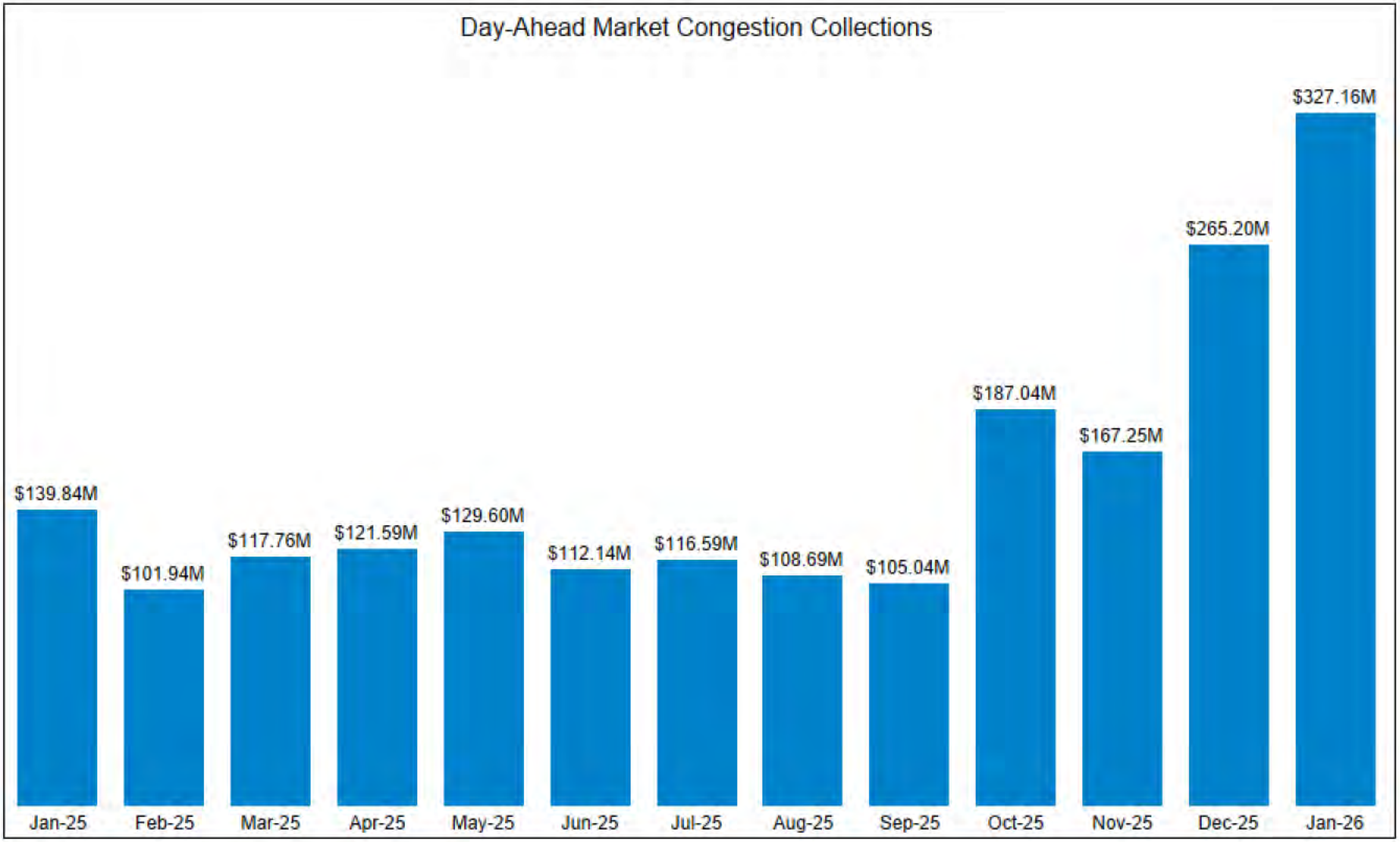
Source: MISO Market and Operations Analytics Department

Daily Gross Cleared Virtual Profitability



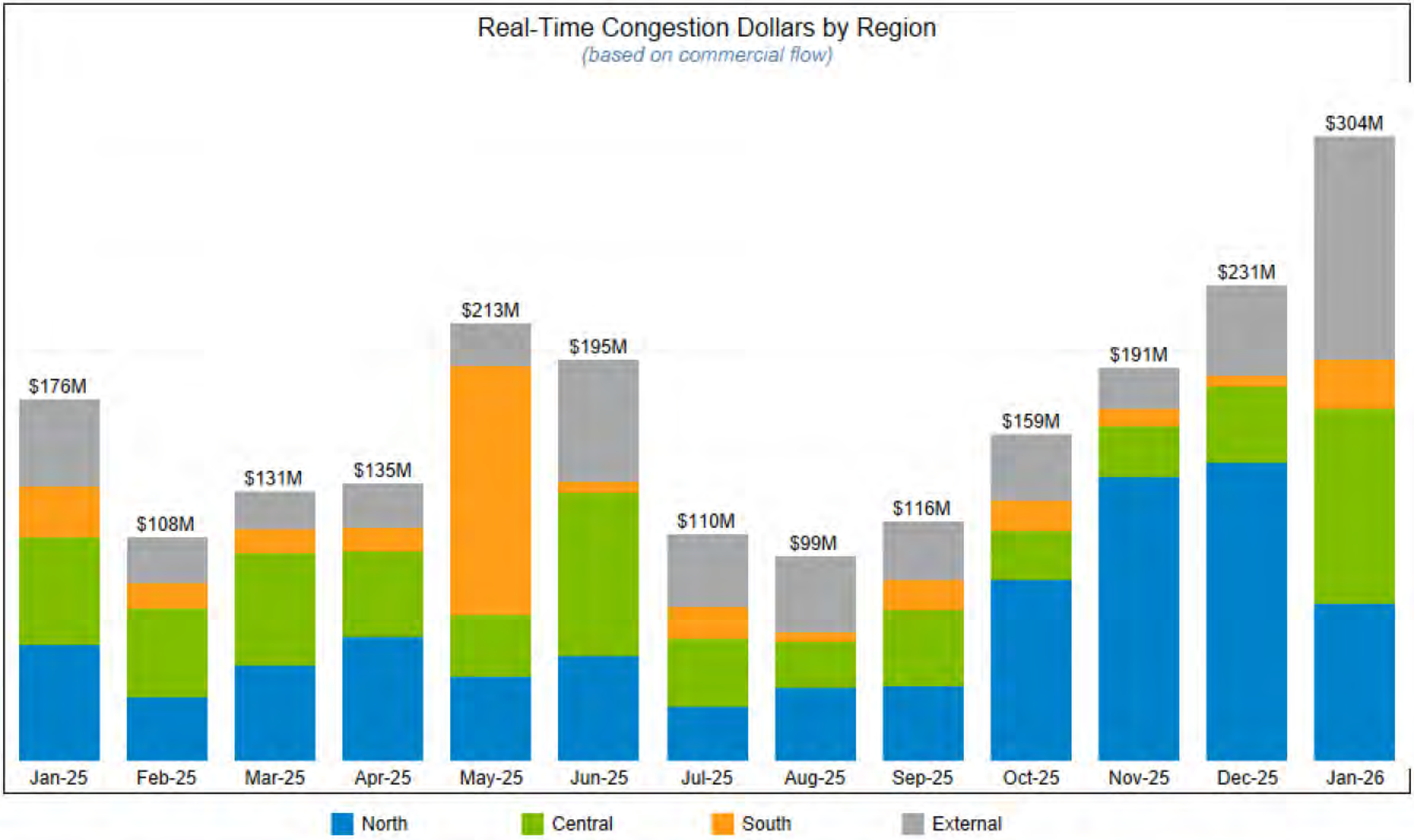
The virtual profitability market index is defined as the sum of profits/losses for all cleared virtual transactions divided by the volume (MWh) of total cleared transactions
Source: MISO Market and Operations Analytics Department

Day-Ahead Congestion Collections



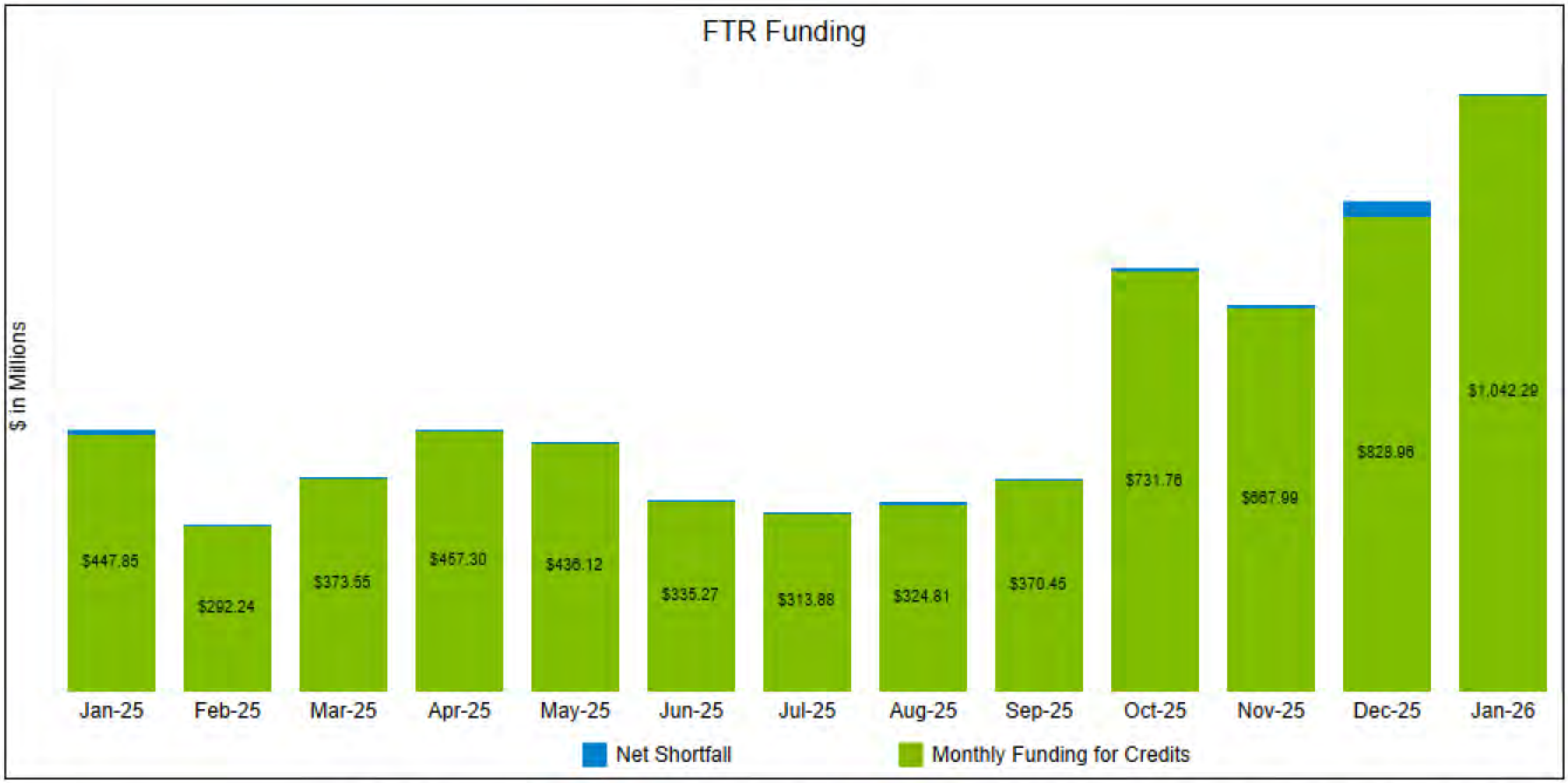
Source: MISO Market and Operations Analytics Department

Real-Time Congestion Dollars by Region



Includes External Constraints
Commercial Flow excludes phase angle regulators and loop flows
Source: MISO Market and Operations Analytics Department

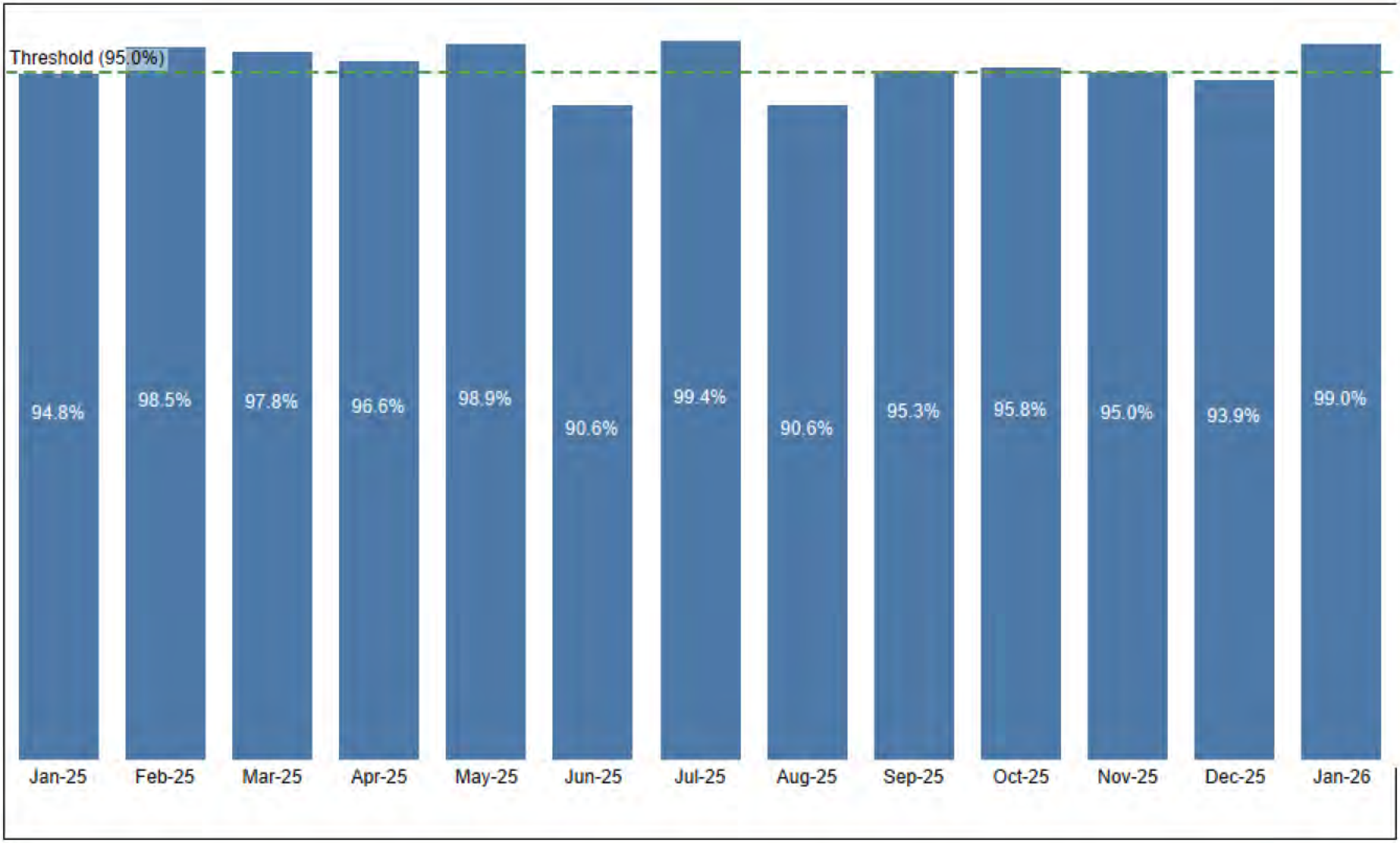
Financial Transmission Rights, Monthly and Rolling Year-to-Date Allocation Funding



	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Monthly FTR Allocation (%)	97.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	100.0%	99.0%	99.1%	96.8%	100.0%
YTD FTR Allocation (%)	NA	NA	NA	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	NA

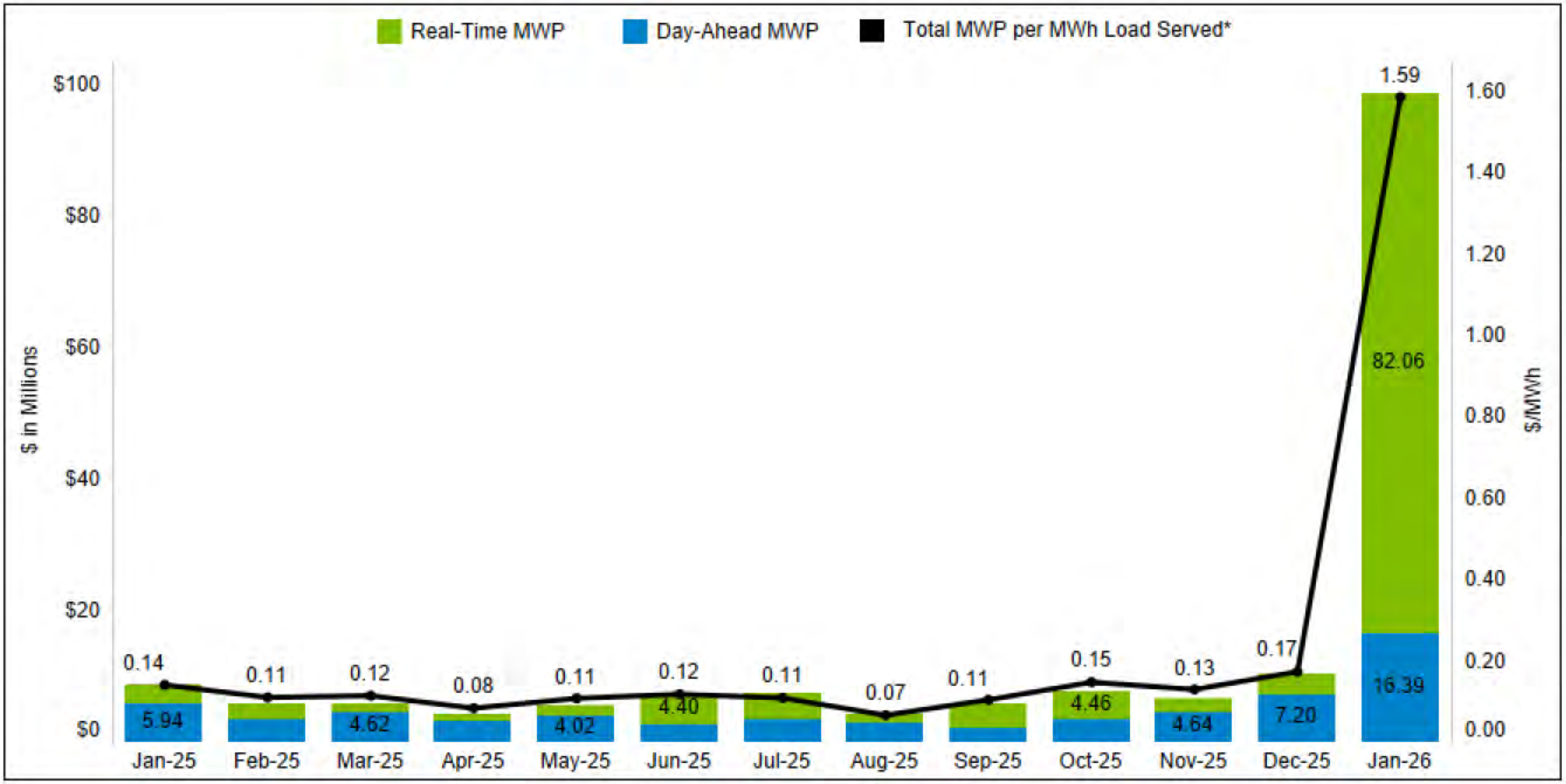
YTD metric is applied beginning April
Values may change due to resettlement
Source: MISO Market ECF Report

Market Funding Efficiency



Values may change due to resettlement
Source: MISO Market ECF Report

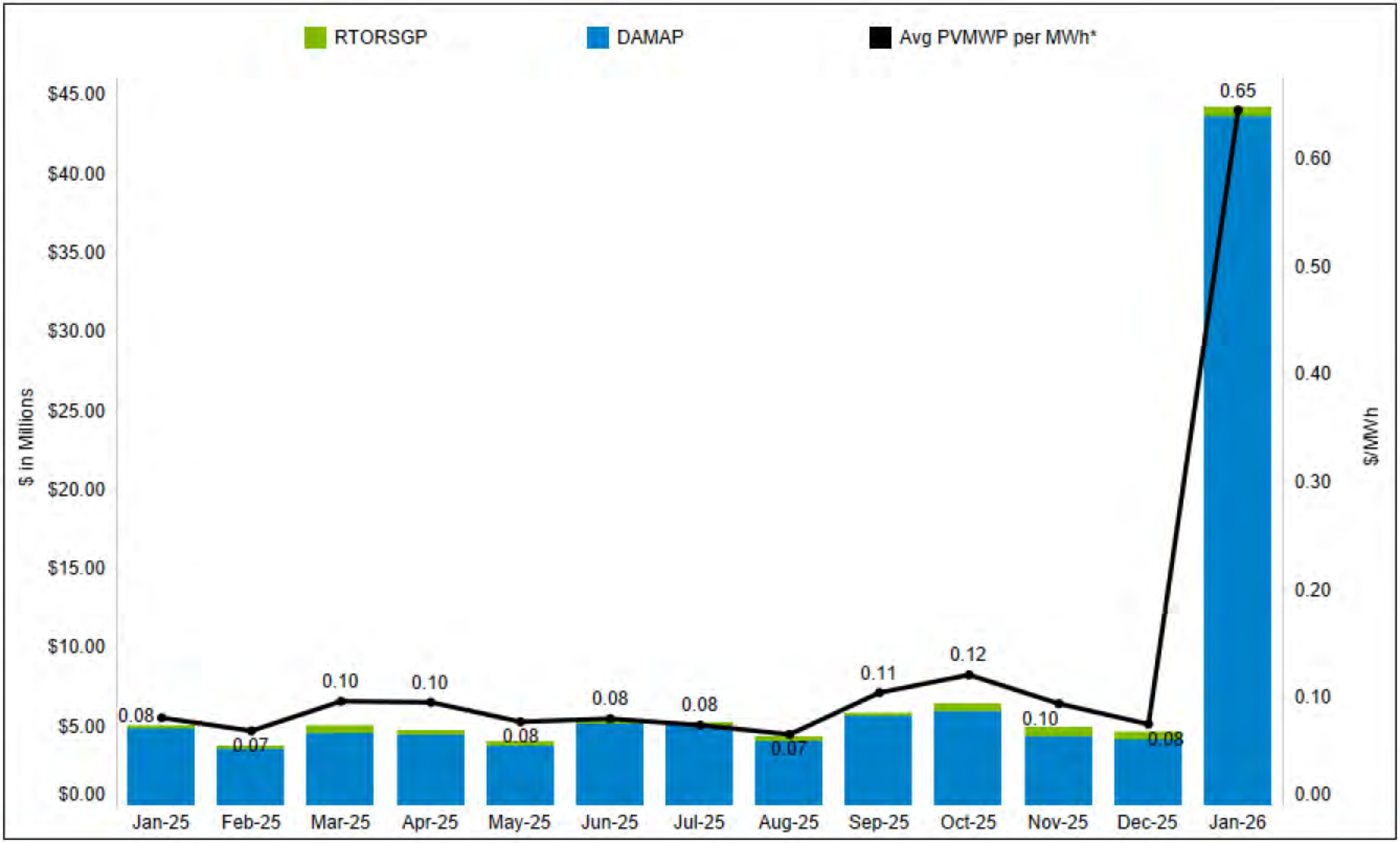
Day-Ahead and Real-Time Revenue Sufficiency Guarantee



	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Chicago Gas Prices ($/MMBtu)	5.30	4.10	3.54	3.09	2.85	2.73	2.93	2.61	2.73	2.84	3.35	3.79	8.97
Henry Gas Prices ($/MMBtu)	5.40	4.13	4.10	3.43	3.12	3.01	3.25	2.90	2.95	3.12	3.73	4.24	6.82
^^RSG Per MWh to Energy Price (%)	0.32	0.26	0.33	0.25	0.31	0.30	0.23	0.19	0.29	0.43	0.36	0.42	1.85

**Based on hourly ICCP Data; ^^metric value*
Values may change due to resettlement
Source: The Web-based Revenue Sufficiency Gurantee Report

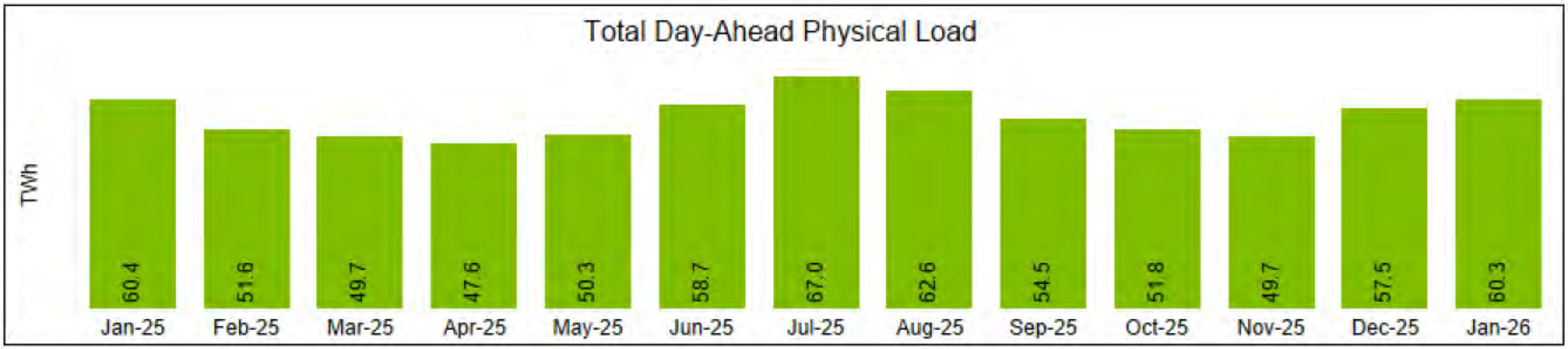
Price Volatility Make Whole Payment



*Hourly ICCP data
Source: Web-based Revenue Neutrality Uplift Report

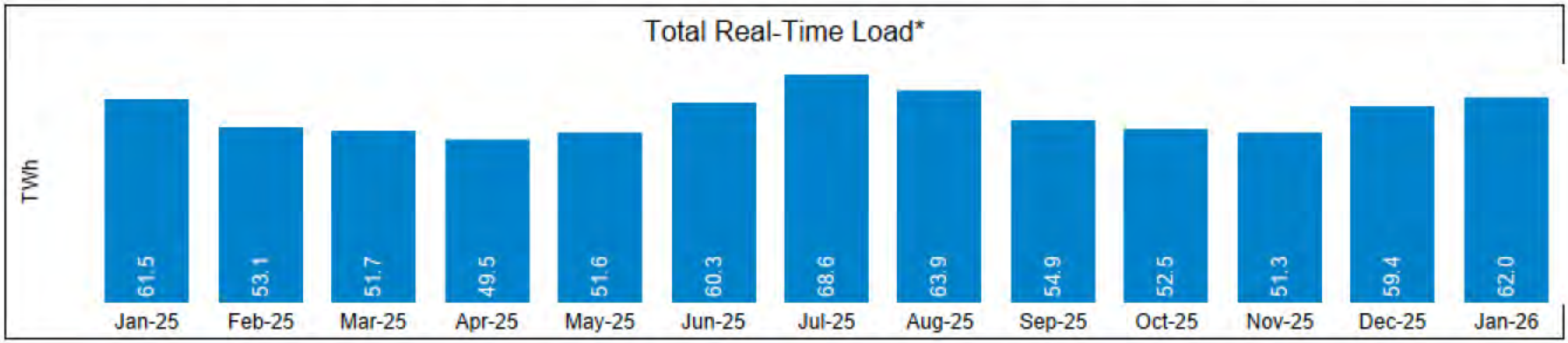
MISO

Day-Ahead and Real-Time Cleared Physical Energy



Day-Ahead Cleared Load Value (including Virtuals)

Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
$3.20B	$2.68B	$1.93B	$1.87B	$2.14B	$2.97B	$4.17B	$2.96B	$2.50B	$2.27B	$2.30B	$3.04B	$6.58B

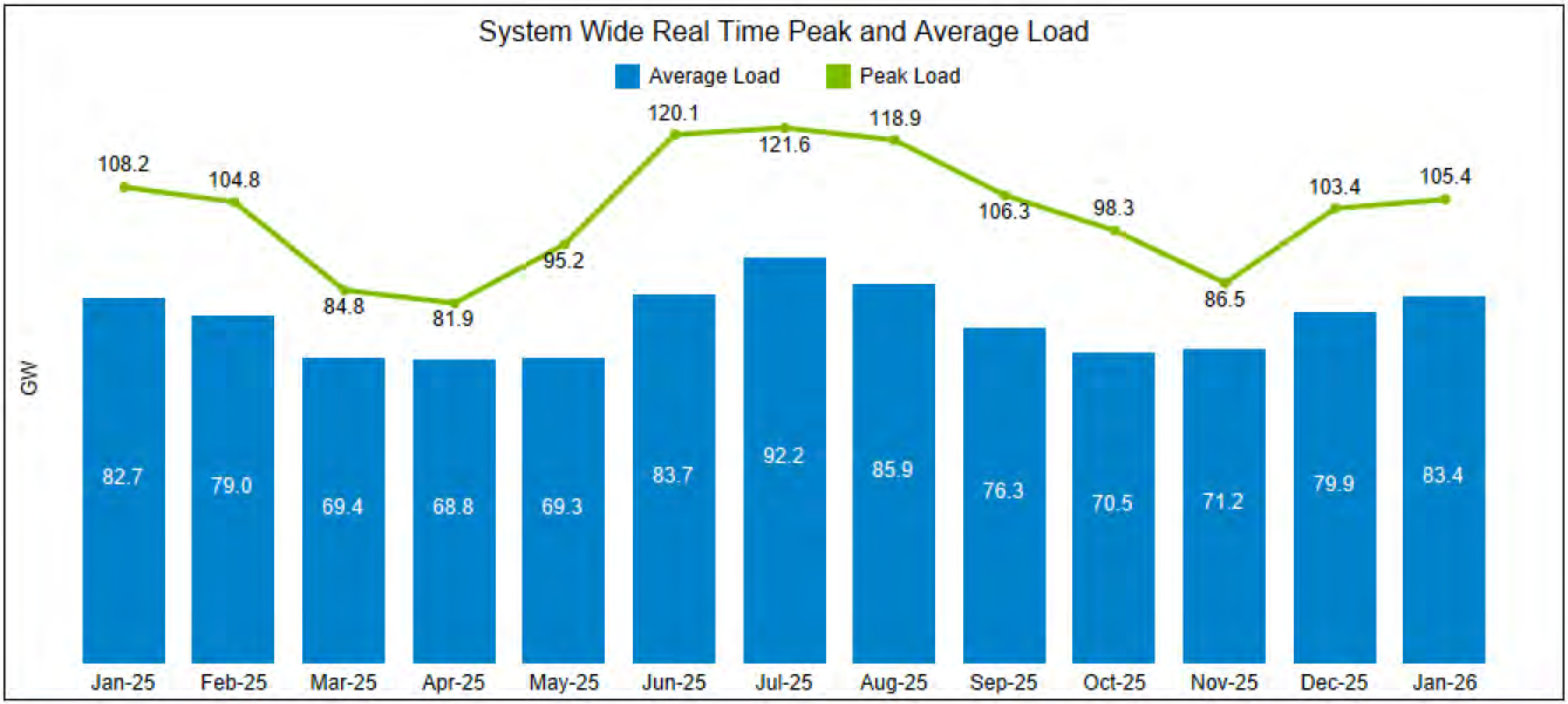


Real-Time Cleared Load Value ($ in Billions)

Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
$2.64B	$2.21B	$1.65B	$1.55B	$1.95B	$3.00B	$3.68B	$2.44B	$2.49B	$1.75B	$1.88B	$2.48B	$5.10B

**Sum of Hourly ICCP Load Data*
Source: MISO Market and Operations Analytics Department

Monthly System Load and Temperature



System Wide Load Weighted Temperature

	Jan-25	Dec-25	Jan-26
Average	18°F	25°F	18°F
Maximum	49°F	51°F	52°F
Minimum	-13°F	-8°F	-12°F

Load Weighted Heating & Cooling Degree Days

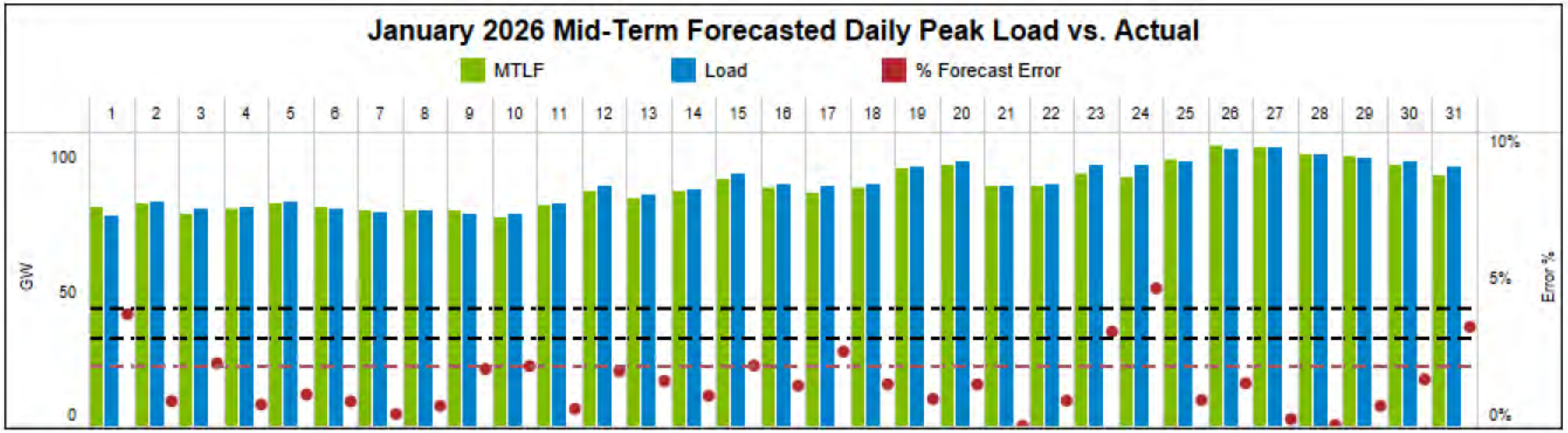
	Average HDD	Std Dev HDD	Average CDD	Std Dev CDD
Jan-26	43.90	15.73	0.00	0.00
Dec-25	37.16	12.31	0.00	0.00
Jan-25	44.19	12.01	0.00	0.00

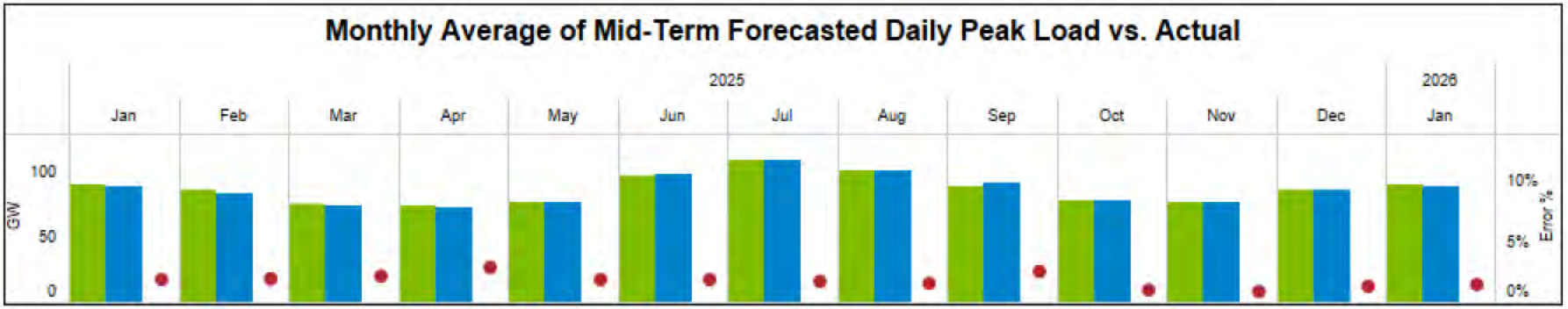
Hours with Load Greater than:

	100 GW	80 GW	60 GW
Jan-26	15	452	744
Dec-25	3	392	736
Jan-25	26	440	744

**Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.*
Source: MISO Market and Operations Analytics Department

Day-Ahead Mid-Term Load Forecast*



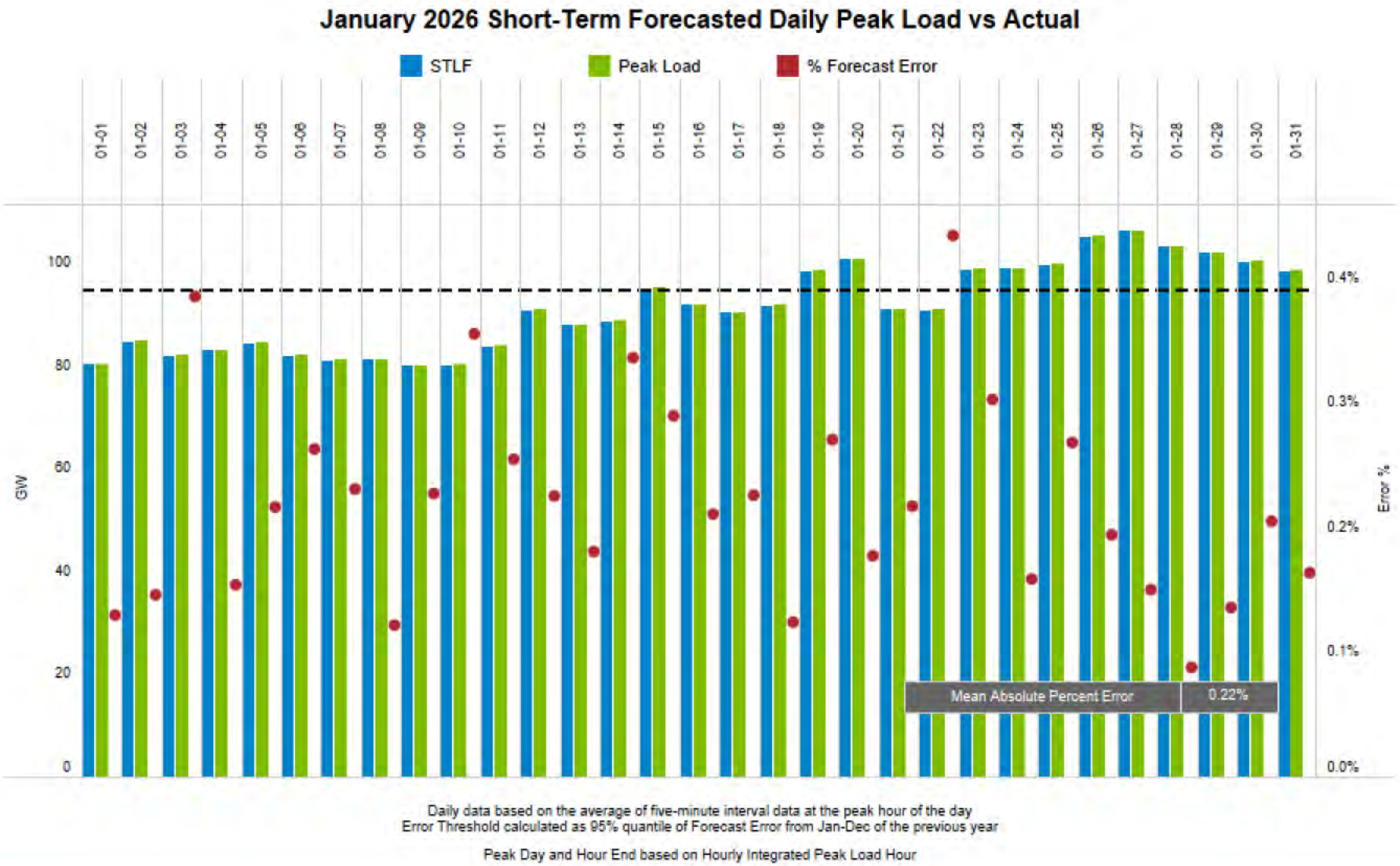


	2025												2026
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan
% Std of Error (CV)	77.55	60.87	54.00	40.07	78.67	71.95	75.03	72.03	65.02	88.18	72.13	84.86	75.05
Mean of Error (MW)	1,742	1,674	1,671	2,191	1,474	1,852	1,950	1,670	2,382	841	731	1,167	1,369
Std of Error (MW)	1,351	1,019	902	878	1,159	1,332	1,463	1,203	1,549	742	527	990	1,027

* Monthly data based on the average of the daily integrated peak hours in the month
* Daily data based on the integrated peak hour of the day
* Peak Day and Hour End based on Hourly Integrated Peak Load Hour

Source: MISO Operations Risk Management

Short-Term Load Forecast*

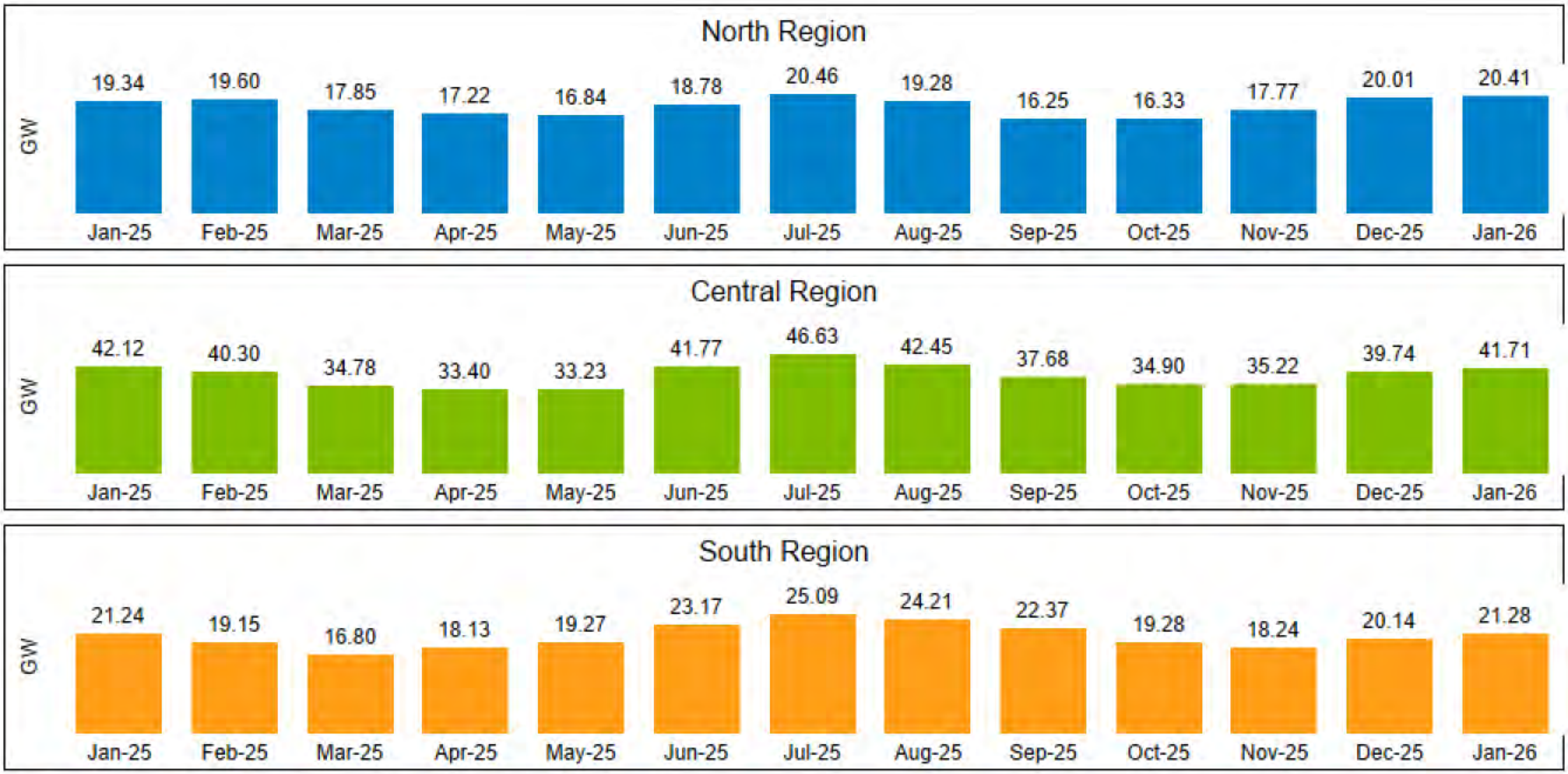


Daily data based on the average of five-minute interval data at the peak hour of the day
Error Threshold calculated as 95% quantile of Forecast Error from Jan-Dec of the previous year

Peak Day and Hour End based on Hourly Integrated Peak Load Hour

Source: MISO Operations Risk Management

Average Load by Region

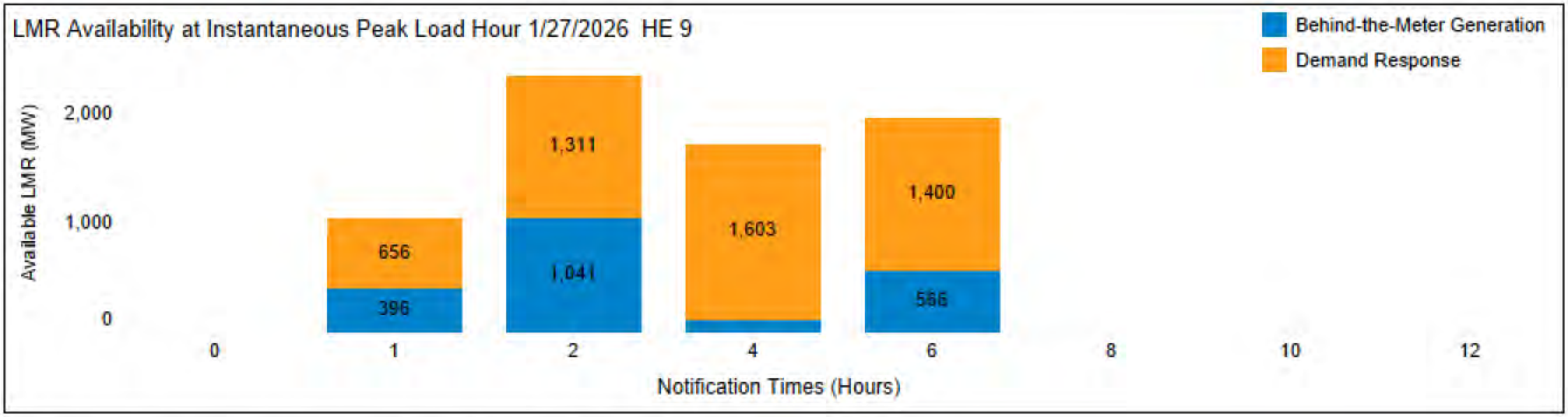


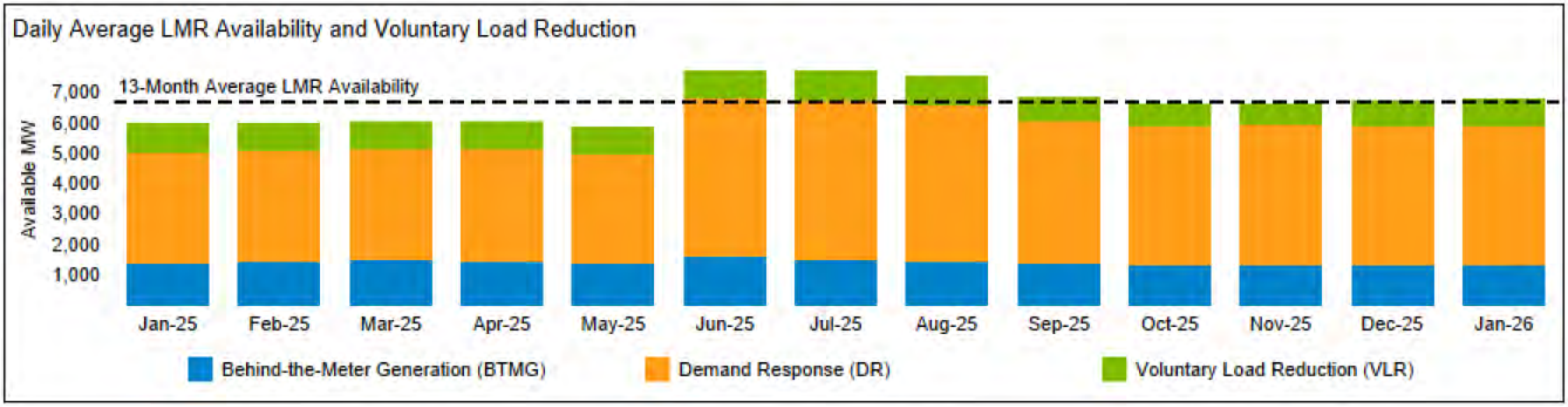
Hourly Integrated System Load Peak Hour Ending: 01/27/2026 09 EST

North	23.80 GW
Central	52.19 GW
South	30.57 GW
MISO	104.14 GW

**Monthly data based on hourly ICCP Load Data; Hourly Integrated Peak Load Hour could differ from the Instantaneous Peak Load Hour.*
Source: MISO Market and Operations Analytics Department

Market Participant entered Load Modifying Resource (LMR) Availabililty

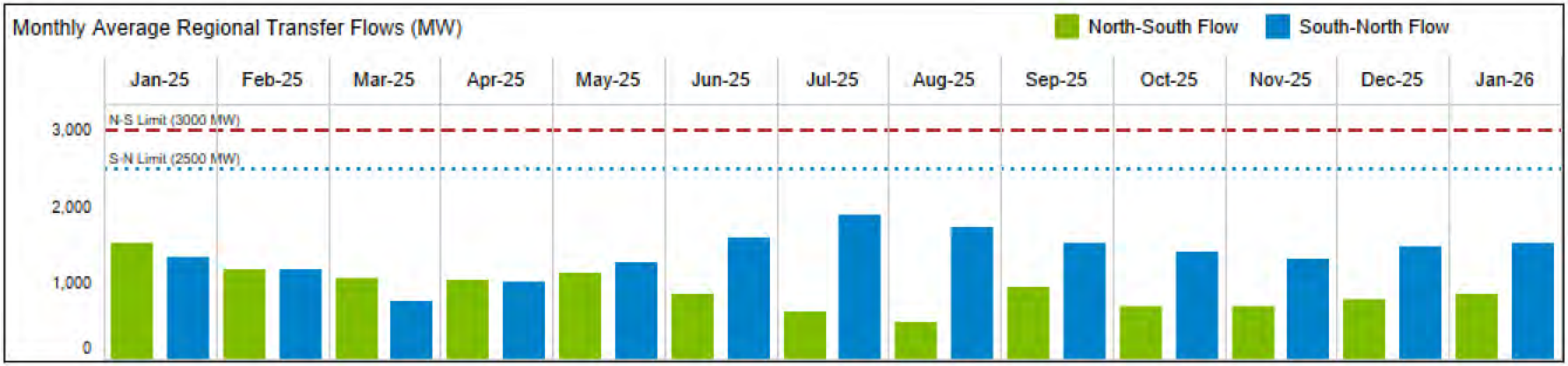




PRA Auction	BTMG (MW)	DR (MW)	Total BTMG and DR (MW)
Summer 2024	4,144	8,109	12,253
Summer 2025	4,283	9,004	13,287

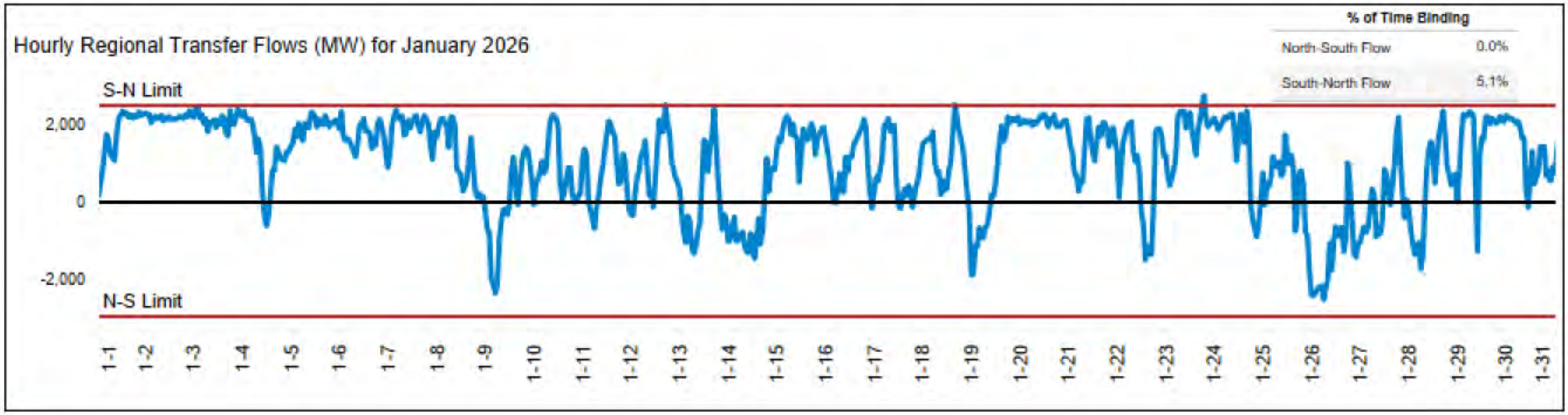
Source: MISO Markets and Operations Analytics Department

Regional Directional Transfer**



Percentage of Time Regional Directional Flow

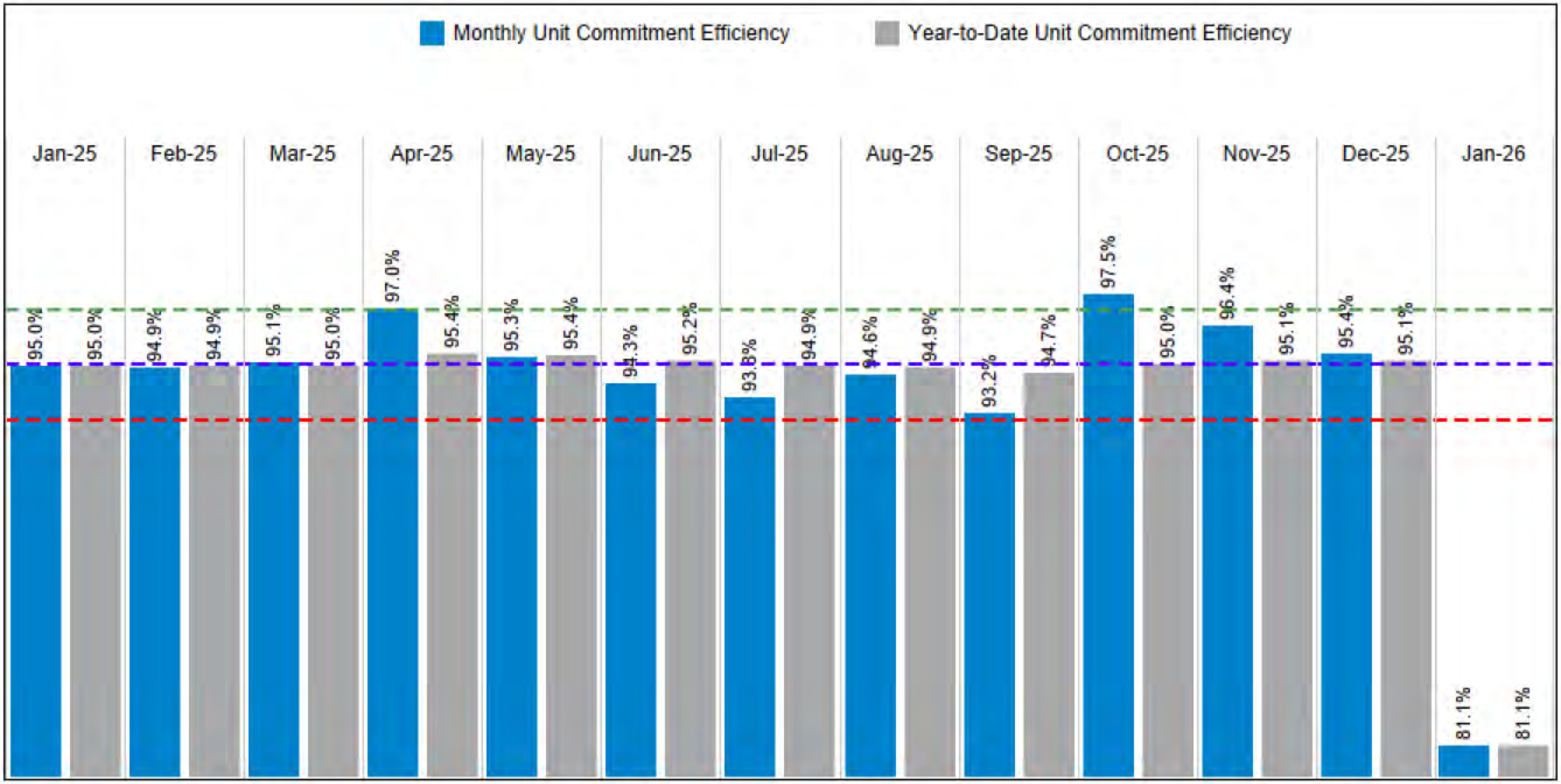
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
North-South Flow	29%	40%	61%	44%	49%	26%	3%	4%	12%	19%	15%	13%	18%
South-North Flow	71%	60%	39%	56%	51%	74%	97%	96%	88%	81%	85%	87%	82%



***Regional Directional Transfer between MISO South and Central/North Regions*
Source: MISO Markets and Operations Analytics Department

Unit Commitment Efficiency

Effectively commit generation to meet demand obligations and mitigate constraints

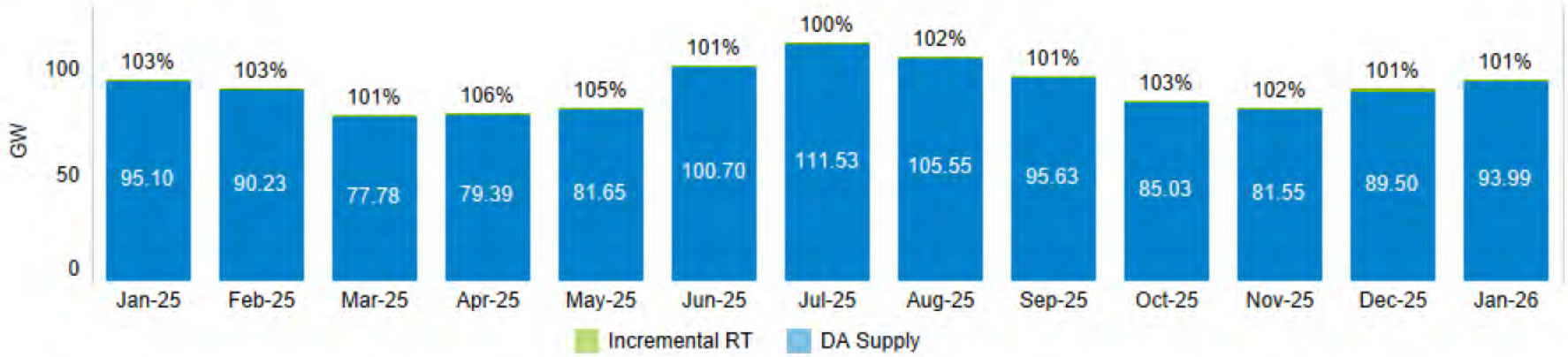


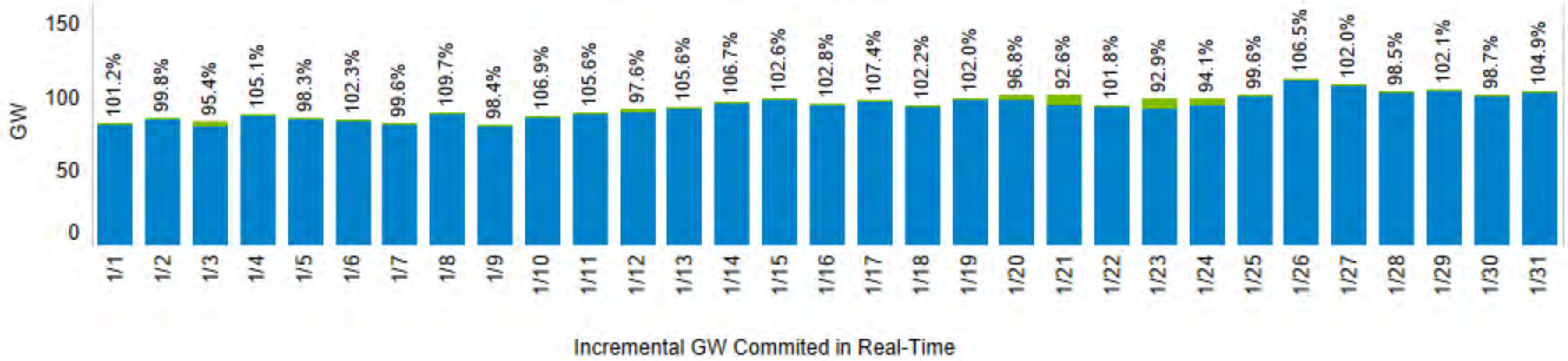
	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Actual Cost	$1,311M	$1,069M	$819M	$756M	$829M	$1,095M	$1,427M	$1,168M	$1,041M	$899M	$929M	$1,173M	$2,130M
Optimal Cost	$1,300M	$1,061M	$812M	$752M	$822M	$1,085M	$1,415M	$1,159M	$1,029M	$894M	$923M	$1,163M	$2,059M
Sunk Cost	$1,095M	$897M	$673M	$628M	$678M	$913M	$1,229M	$1,004M	$864M	$732M	$758M	$952M	$1,756M

Source: MISO Optimal Dispatch Calculator (ODC)

Unit Commitment Efficiency = 1-((Actual cost – Optimal cost)/(Actual cost – Sunk cost))

Day-Ahead Supply and Real-Time Load Obligation at the Peak Load Hour





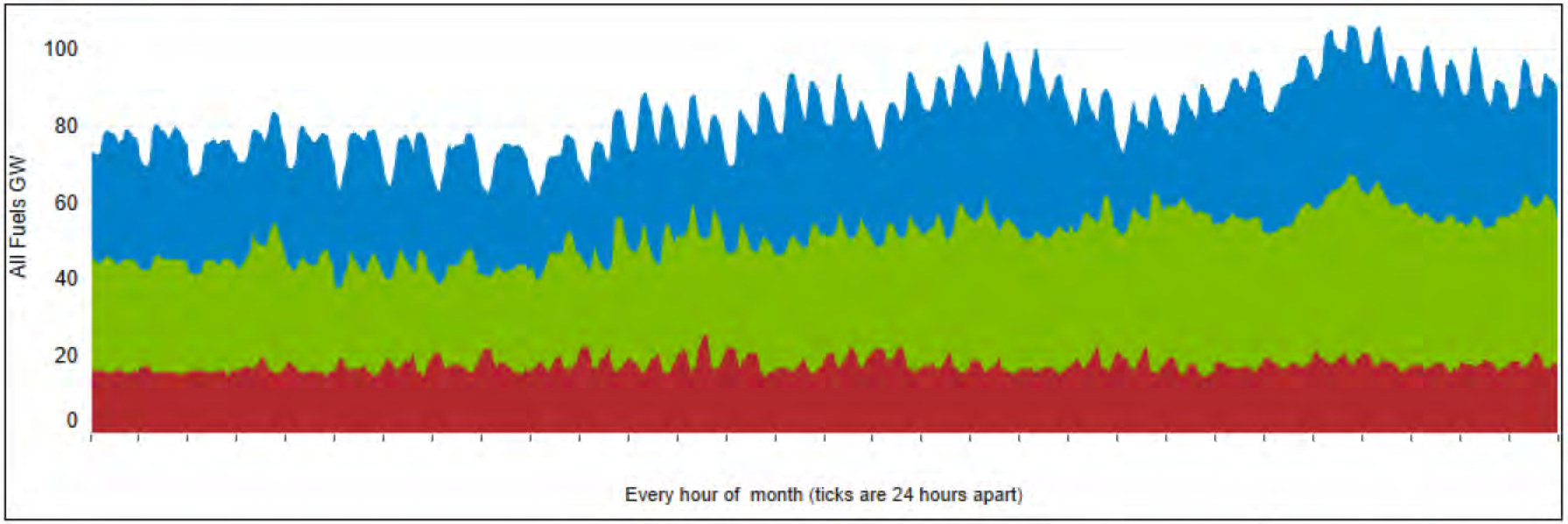
Incremental GW Commited in Real-Time

1/1	1/2	1/3	1/4	1/5	1/6	1/7	1/8	1/9	1/10	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	1/21	1/22	1/23	1/24	1/25	1/26	1/27	1/28	1/29	1/30	1/31
-0.94	0.17	3.83	-4.33	1.44	1.90	0.36	-7.96	1.28	-5.65	-4.75	2.17	-4.97	-6.11	-2.47	-2.56	-6.81	-2.01	-1.92	3.29	7.58	-1.71	7.08	5.93	0.39	-6.87	-2.14	1.59	-2.17	1.30	-4.86

Day-Ahead Supply is the Day-Ahead Economic Maximum received in Real-Time plus Behind-the-Meter plus Day-Ahead NSI at the Peak Hour
Real-Time Obligation is the Real-Time ICCP Load plus Real-Time Regulation Requirement plus Real-Time Spinning Requirement at the Peak Hour
Real-Time Increment is the Real-Time Obligation less Day-Ahead Supply at the Peak Hour
Percents calculated as Day-Ahead Supply divided by Real-Time Obligation

Source: MISO Market and Operations Analytics Department

Self Committed and Economically Dispatched Energy - January 2026

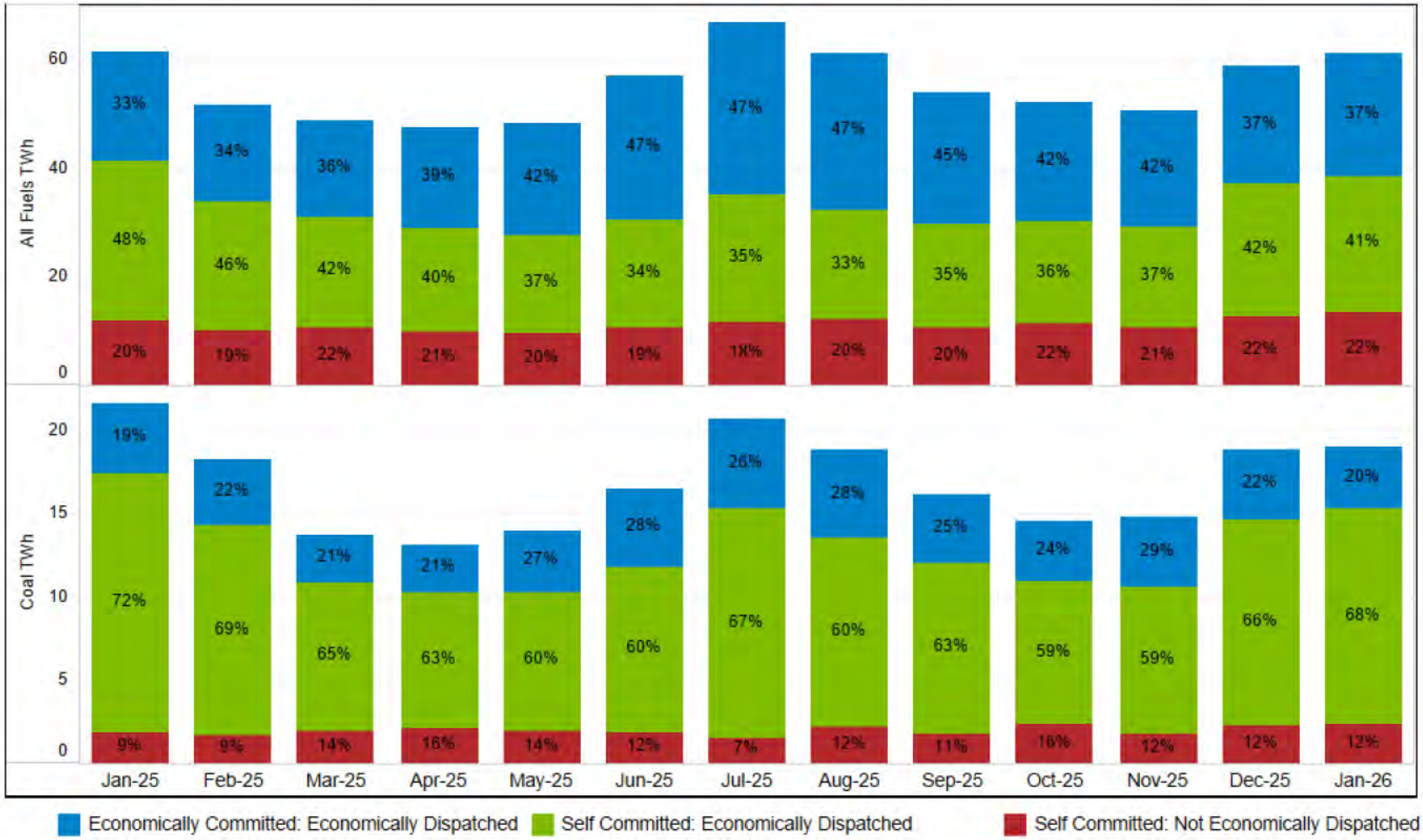


	All Fuels		Coal		Gas	
	TWh	%	TWh	%	TWh	%
Economically Committed: Economically Dispatched	23.0	37%	3.8	20%	14.4	65%
Self Committed: Economically Dispatched	25.1	41%	13.0	68%	6.0	27%
Self Committed: Not Economically Dispatched	13.5	22%	2.4	12%	1.8	8%
Grand Total	**61.6**	**100%**	**19.1**	**100%**	**22.2**	**100%**

Economically Committed: Economically Dispatched	Generation committed by MISO and dispatched on economic offers.
Self Committed: Economically Dispatched	Generation that is self-committed, but Resource Owners allow MISO to dispatch economically after the self-schedule portion of their resource offer is satisfied. Self-commitments can be used to manage local reliability, operational constraints, and fuel contract constraints.
Self Committed: Not Economically Dispatched	Energy from self-committed generation produced at its minimum level or is block-loaded and cannot be dispatched. Block Loaded energy is not necessarily uneconomic, but MISO has no ability to dispatch it based on economics.

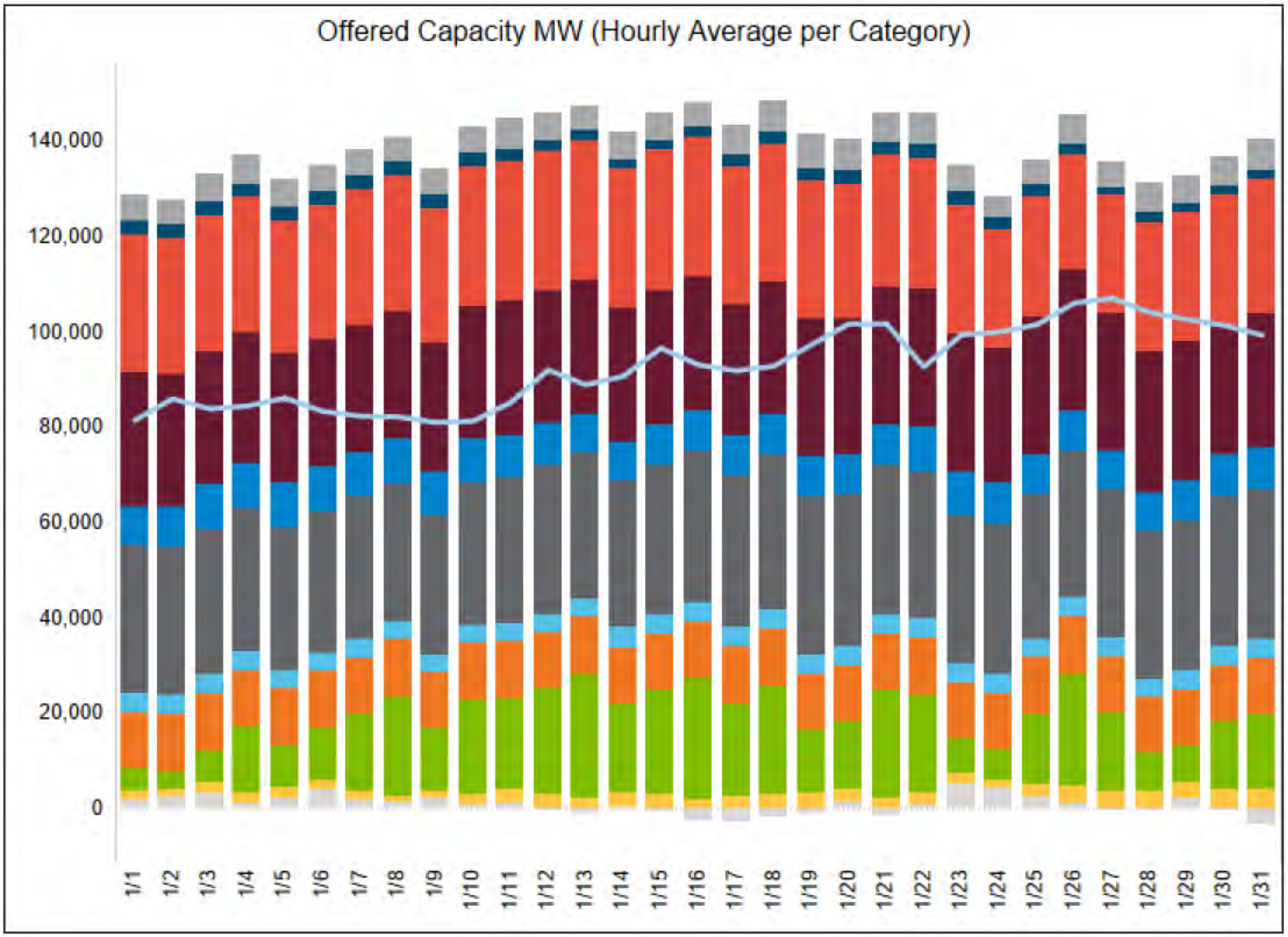
Source: MISO Market and Operations Analytics Department

Monthly Trend - Self Committed and Economically Dispatched Energy



Source: MISO Market and Operations Analytics Department

Offered Capacity and Real-Time Peak Load Obligation



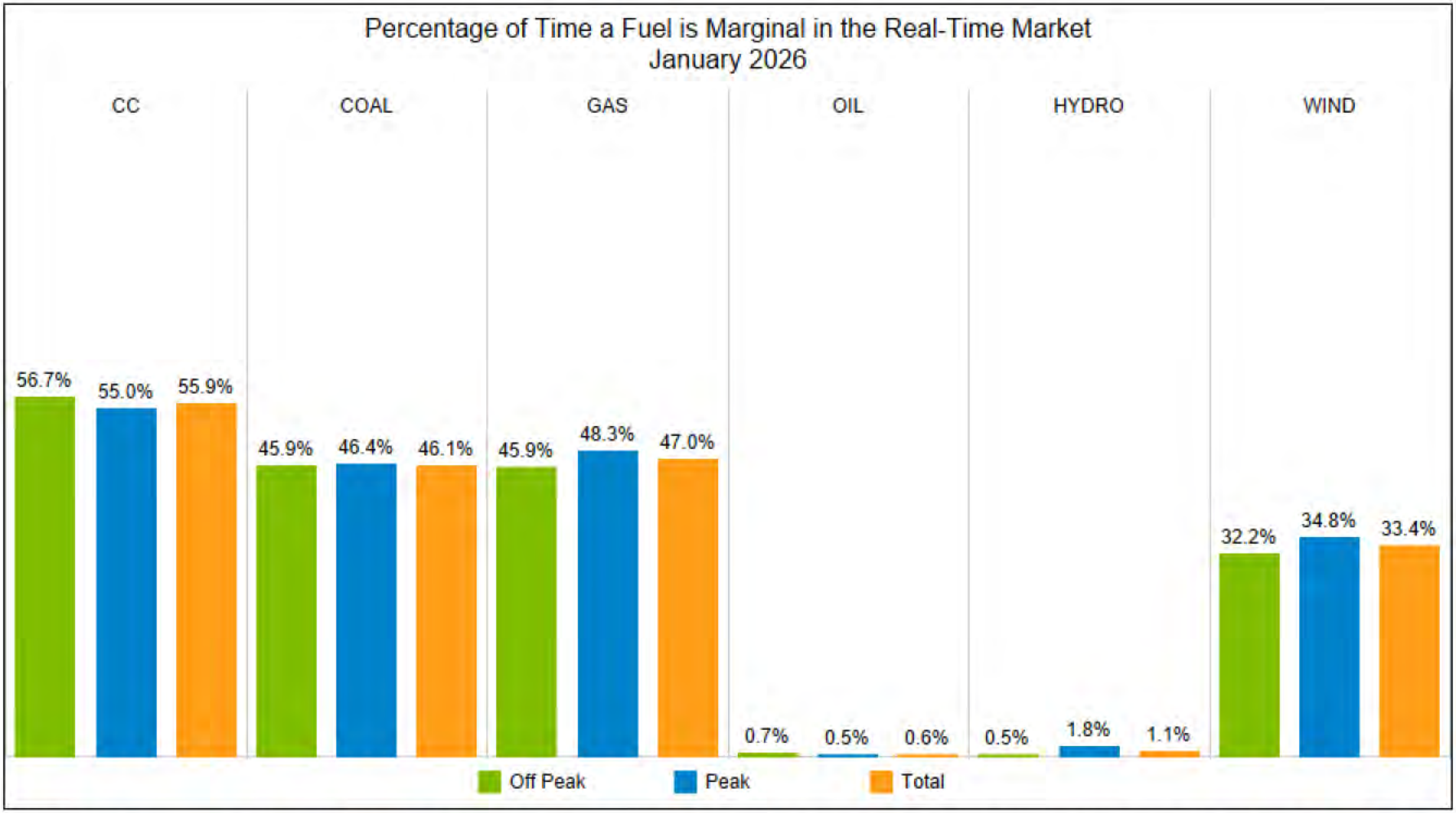
* Real-Time ICCP Load plus Real-Time Regulation Requirement plus Real-Time Spinning Requirement at the daily Peak hour.

** Other includes DRR, SER, pet coke, and waste units.

*** Gas excludes CC and CT.

Source: MISO Market and Operations Analytics Department

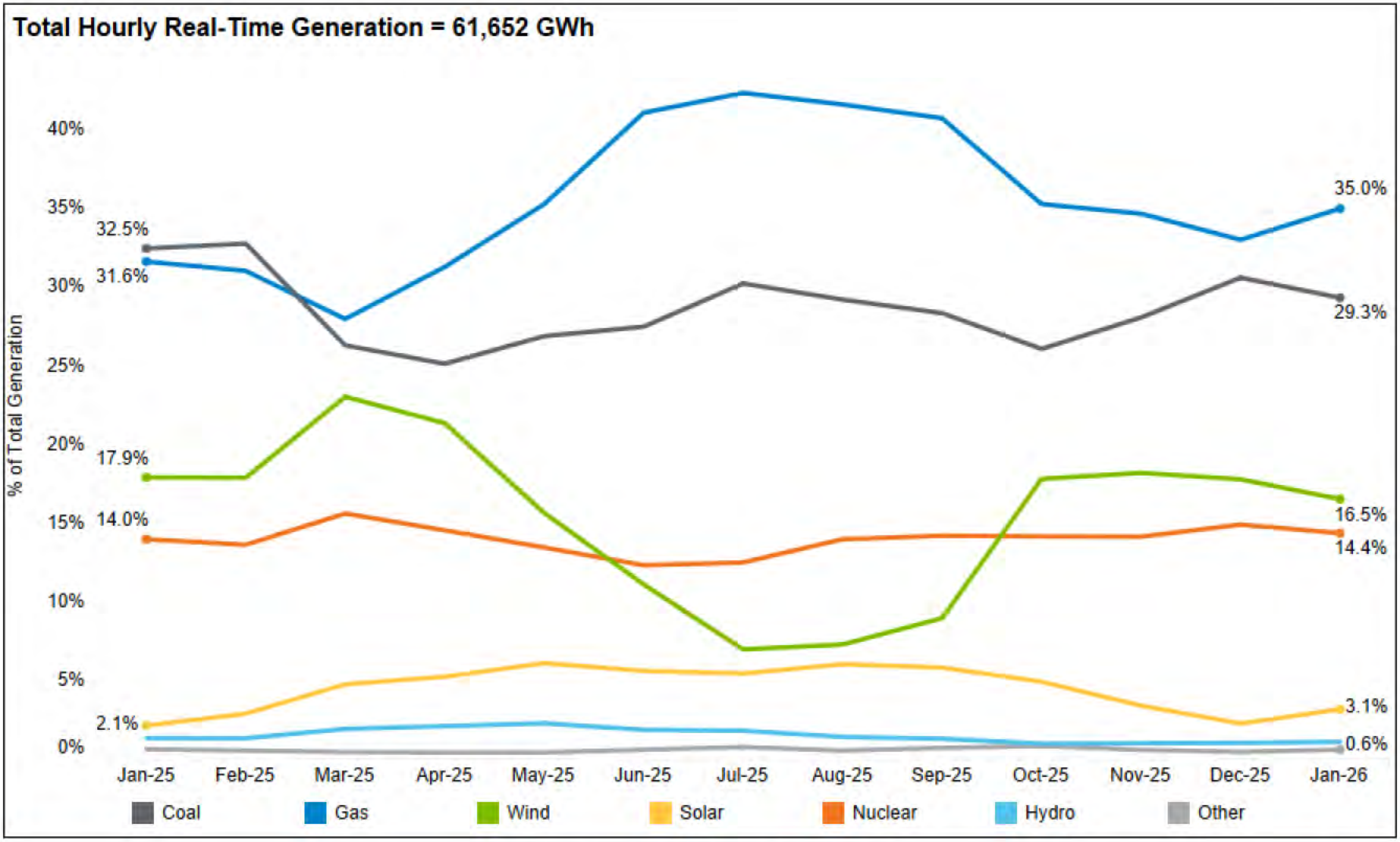
Marginal Fuel



Note: Binding transmission constraints can produce instances where more than one unit is marginal in the system. Consequently, more than one fuel may be on the margin; and since each marginal unit is included in the analysis, the percentage may sum to more than 100%.

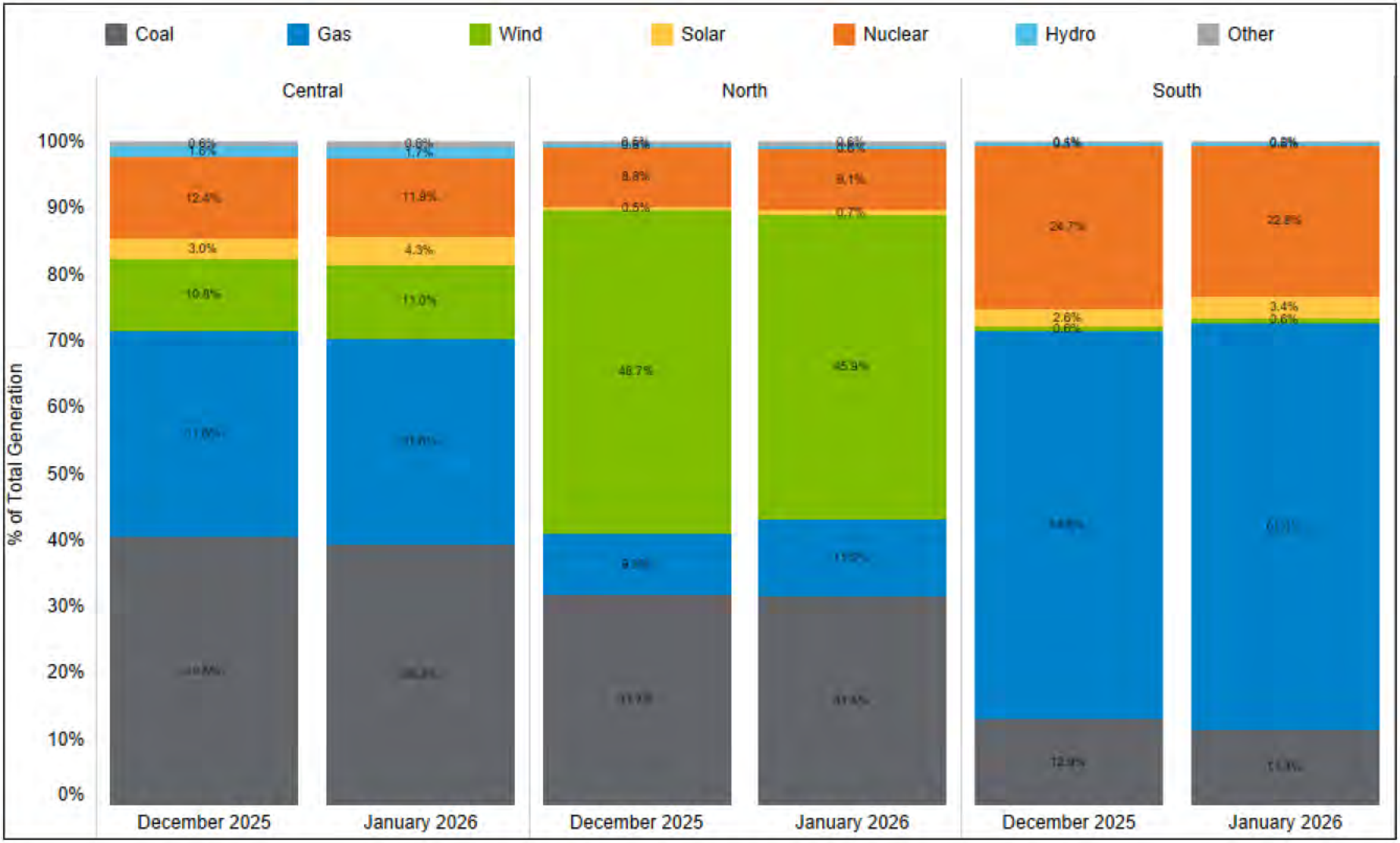
Source: MISO Market and Operations Analytics Department

Real-Time Generation Fuel Mix



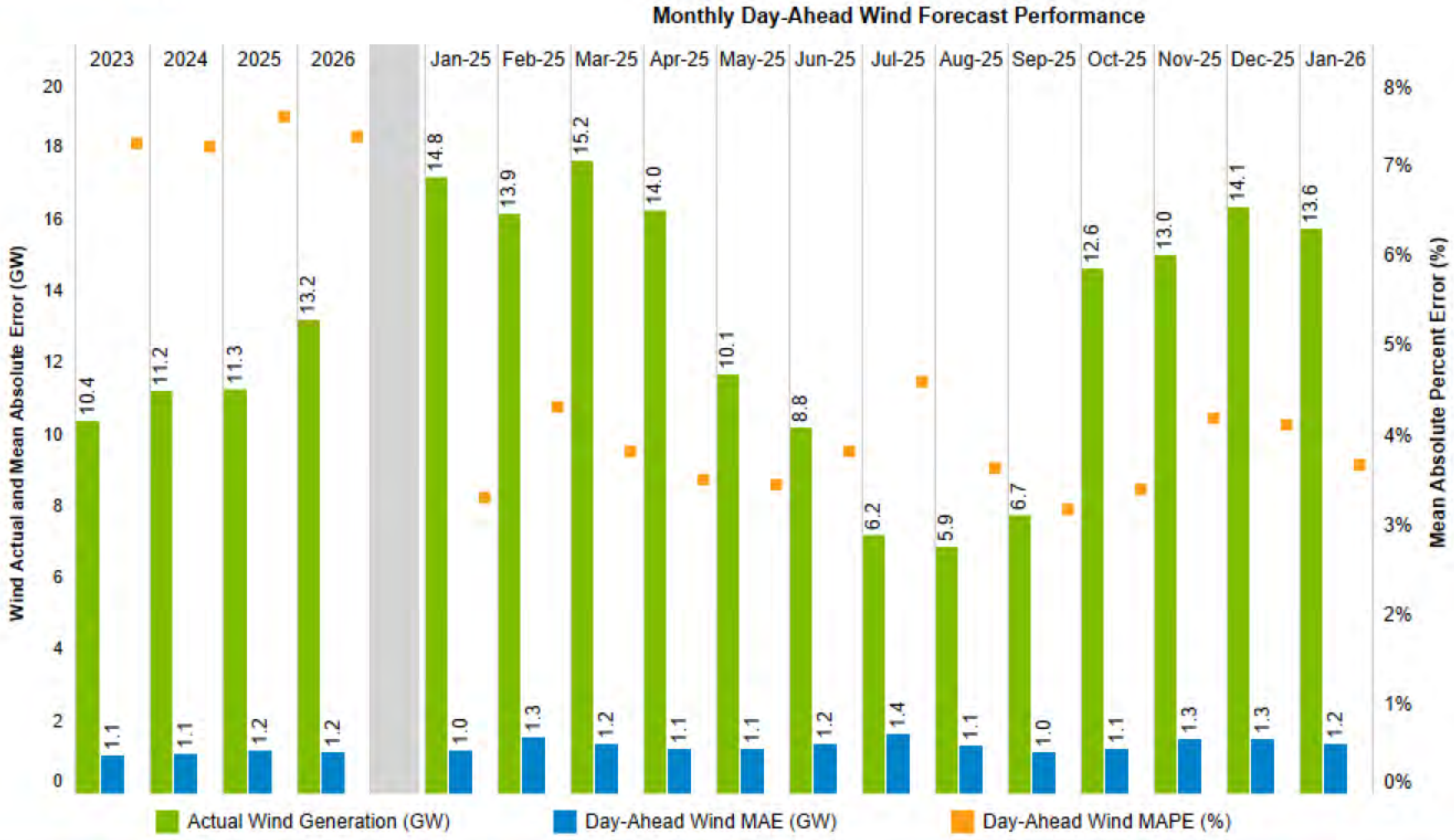
Based on hourly unit level state estimator data
Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
Source: MISO Market and Operations Analytics Department

Real-Time Generation Fuel Mix by Region



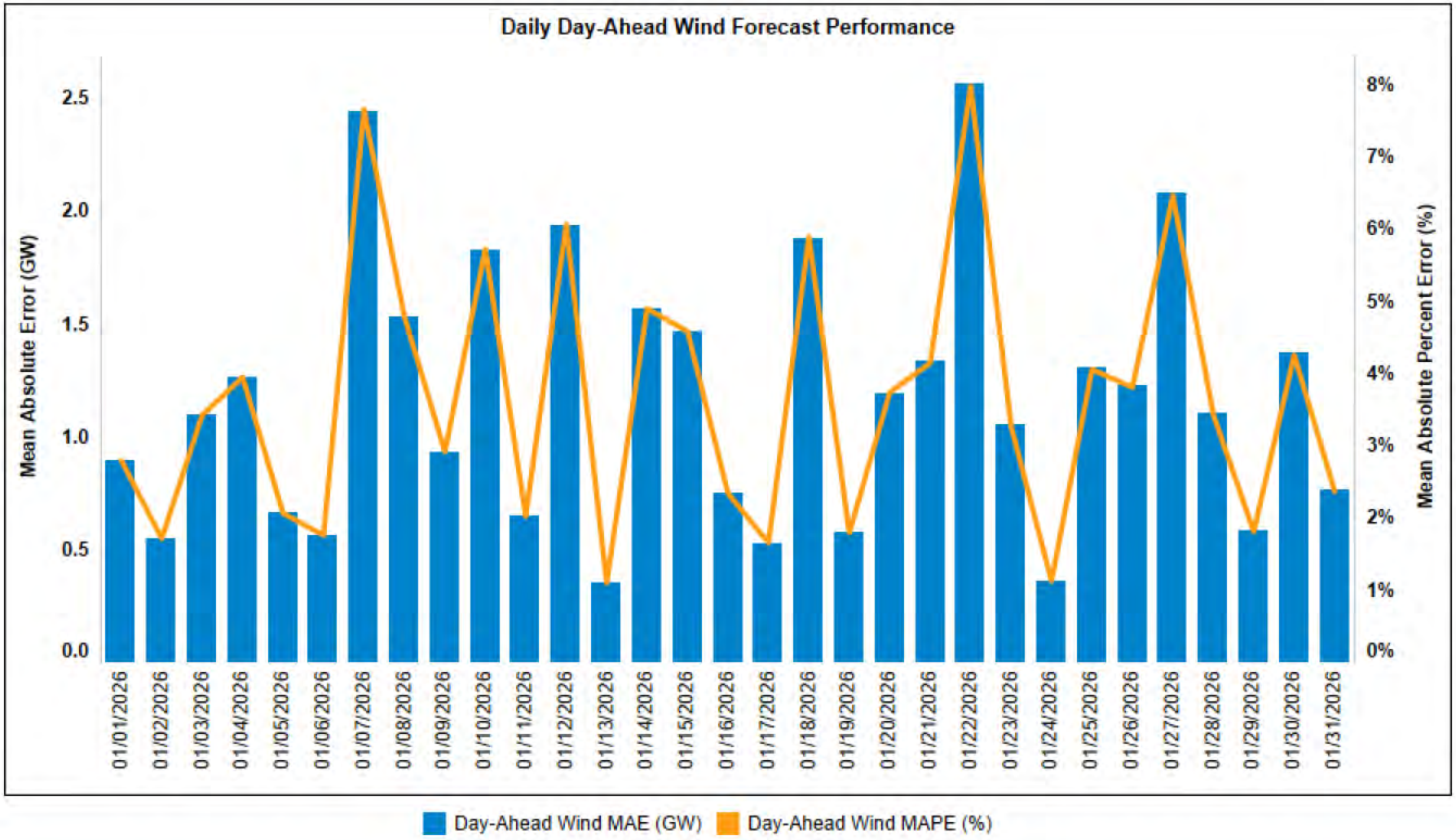
Based on hourly unit level state estimator data
Other includes: Battery, Oil, Pet Coke, Waste and Other fuels
Source: MISO Market and Operations Analytics Department

Monthly Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

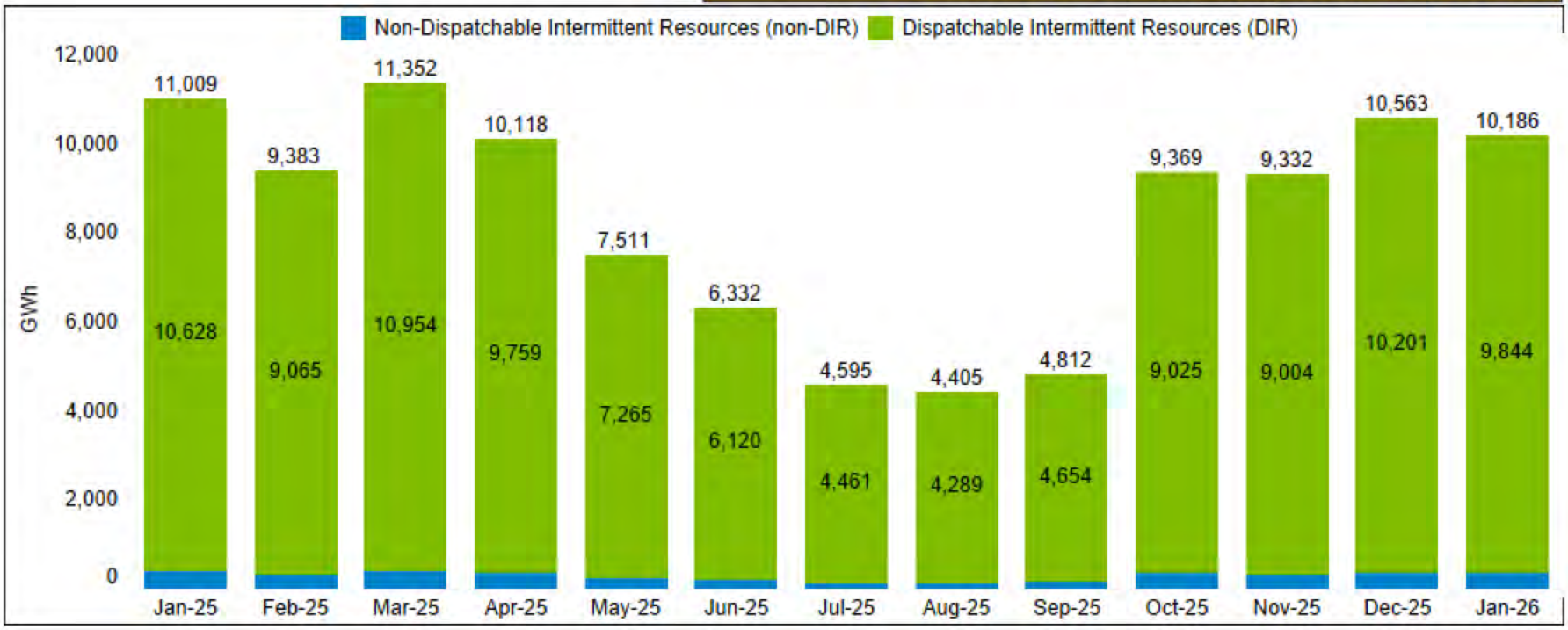
Daily Day-Ahead Wind Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

Monthly Wind Energy Generation

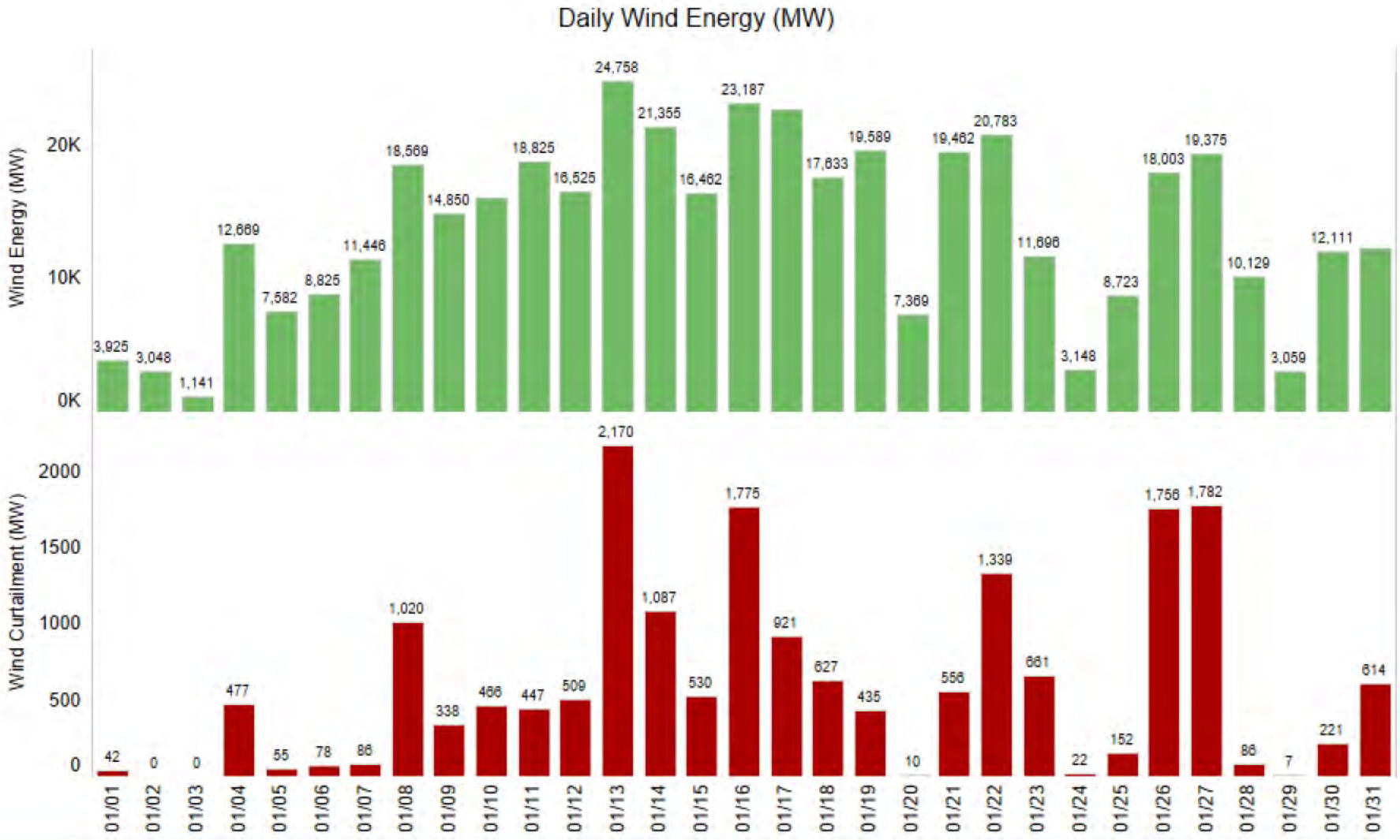
As of 09/05/2025
Registered Wind Capacity = 32,464 MW; Inservice Wind Capacity = 31,450 MW
Registered DIR Capacity = 30,936 MW; Inservice DIR Capacity = 29,922 MW



	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26
Peak Wind Date and Hour Ending	1/28 21	2/28 22	3/23 15	4/28 19	5/16 21	6/21 15	7/5 1	8/8 7	9/5 6	10/21 13	11/26 13	12/28 24	1/13 20
Peak hourly wind output (MW)	25,218	24,646	24,172	23,582	22,803	21,086	15,404	15,824	20,284	22,614	23,562	25,841	26,132
Peak wind output as % of MISO load in that hour	31.2%	34.1%	34.6%	28.6%	28.6%	19.3%	19.2%	19.4%	29.9%	29.8%	29.7%	35.8%	31.9%
Wind Energy as a percent of MISO Energy	18.2%	18.1%	23.2%	21.5%	15.6%	11.3%	7.3%	7.5%	9.2%	18.1%	18.2%	17.8%	16.5%
DIR dispatch below Max as % of avail. DIR	3.3%	2.0%	3.1%	4.3%	3.3%	3.3%	1.3%	2.6%	2.9%	2.9%	3.0%	2.7%	3.0%

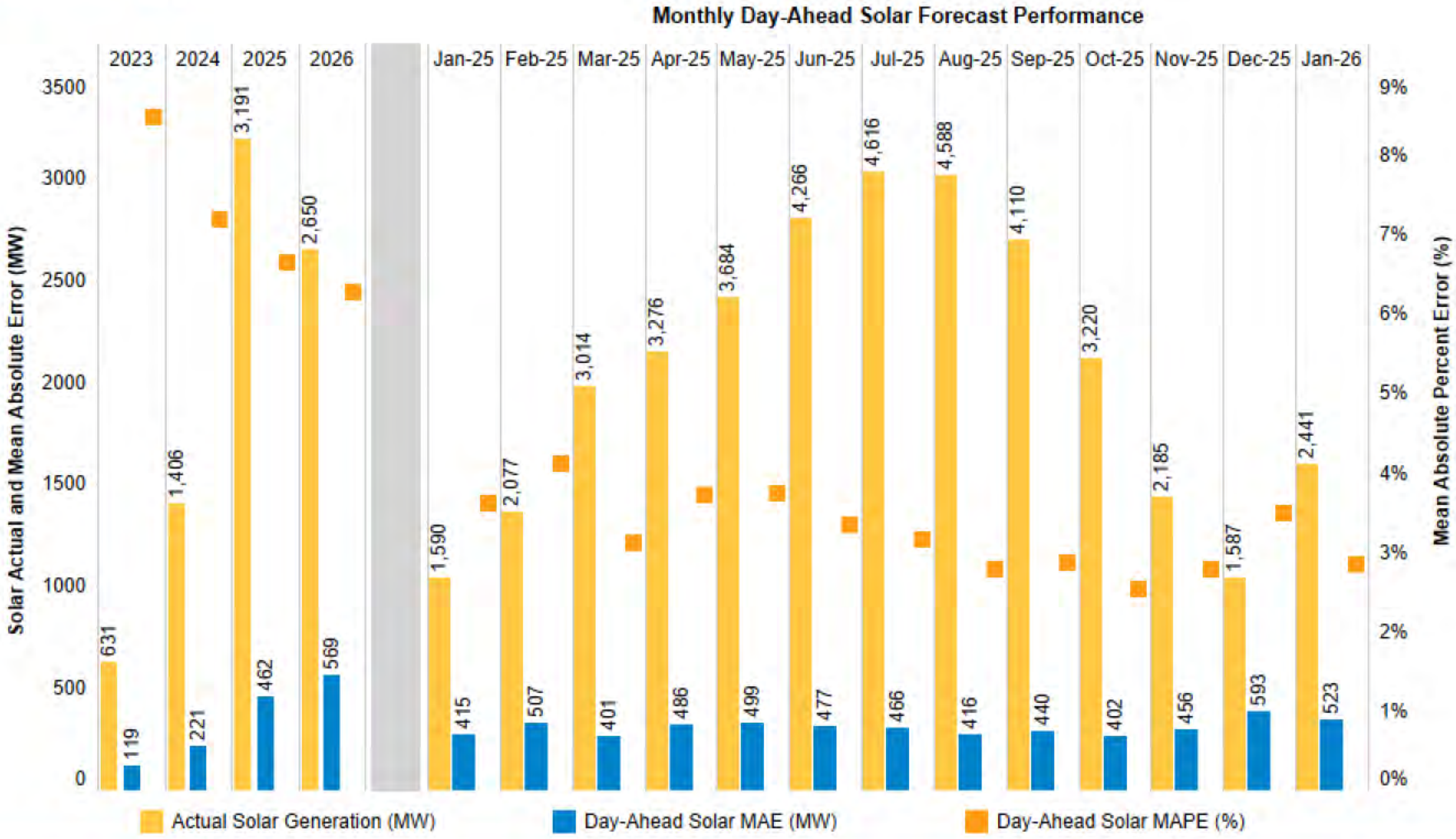
**Hourly State Estimator data*
Source: MISO Market and Operations Analytics Department

Daily Average Wind Energy and Curtailment



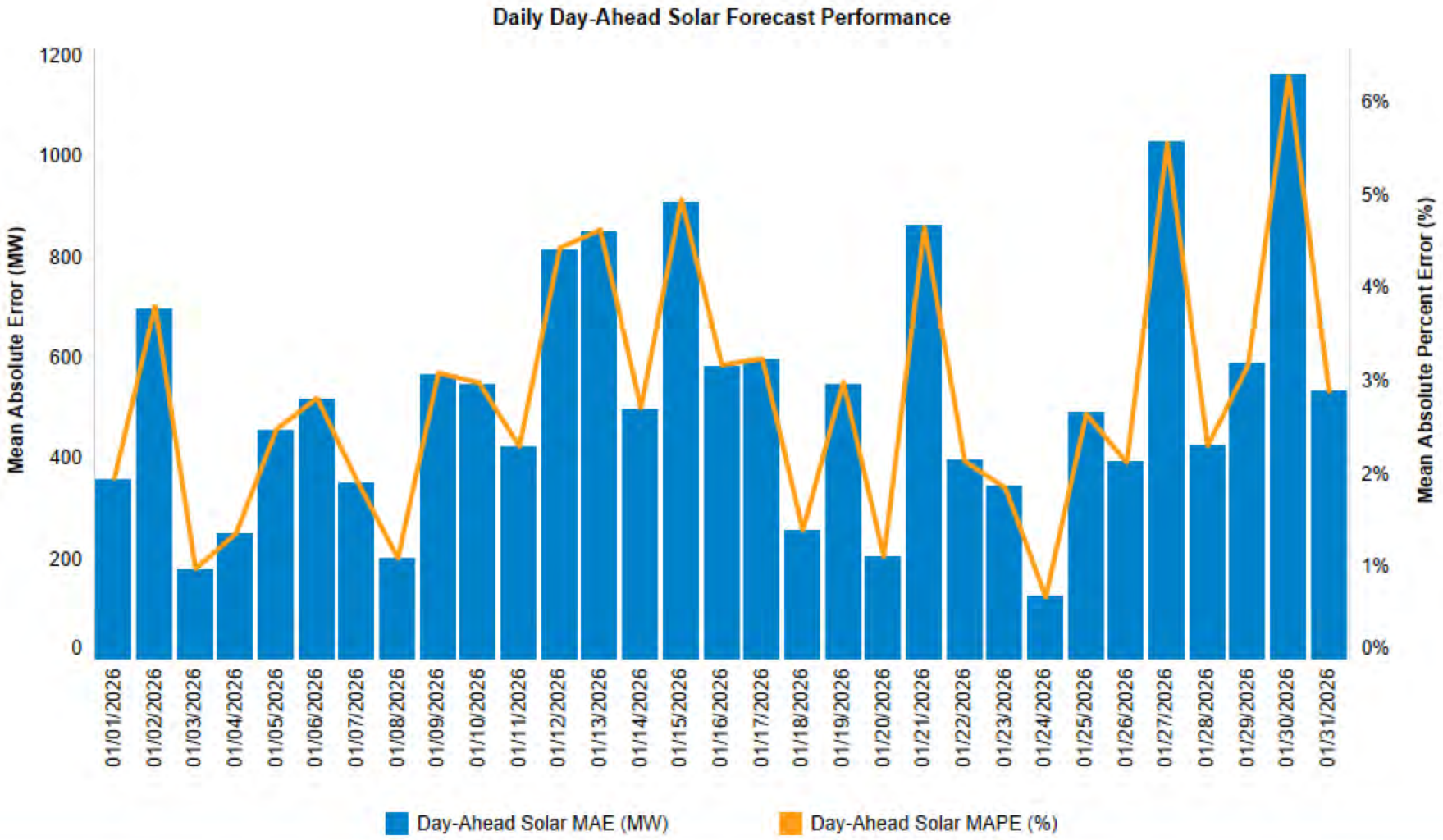
Source: MISO Market and Operations Analytics Department

Monthly Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

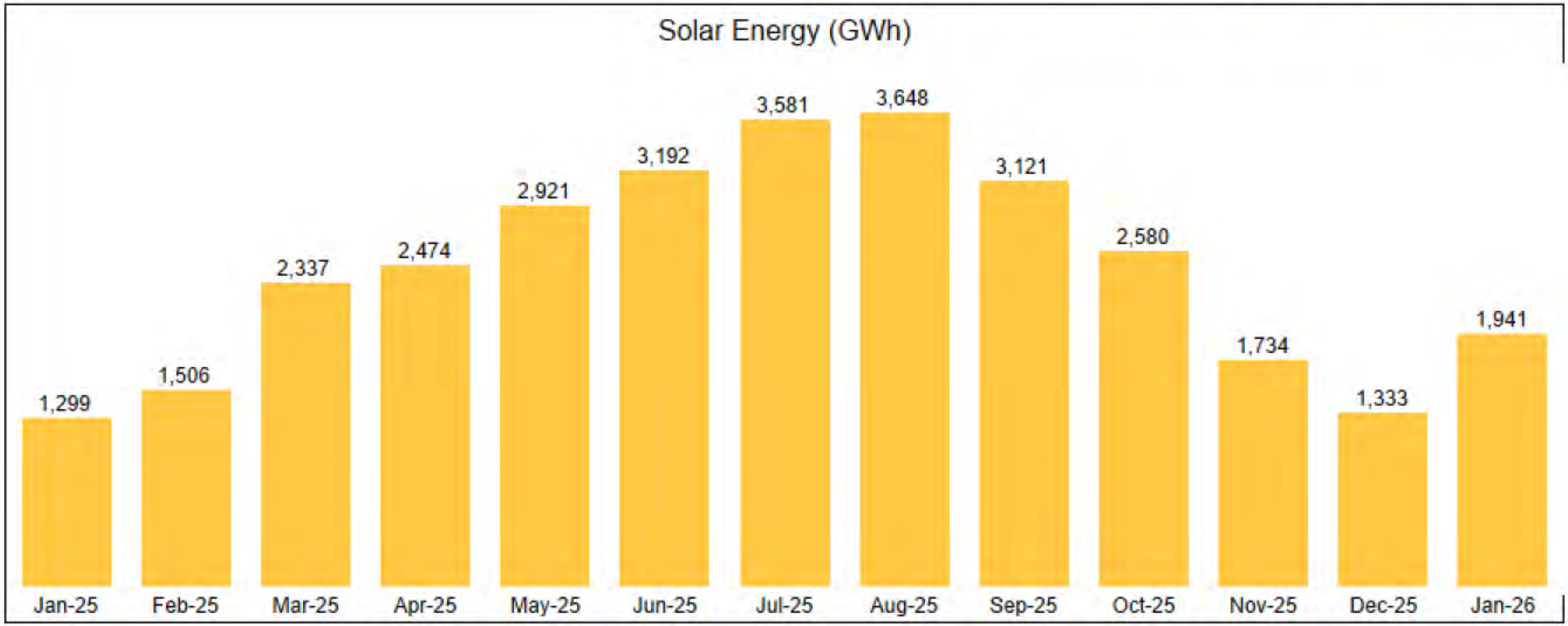
Daily Day-Ahead Solar Forecast Performance: Mean Absolute Error (MAE) and Mean Absolute Percent Error (MAPE)



Source: MISO Operations Risk Management

Monthly Solar Energy

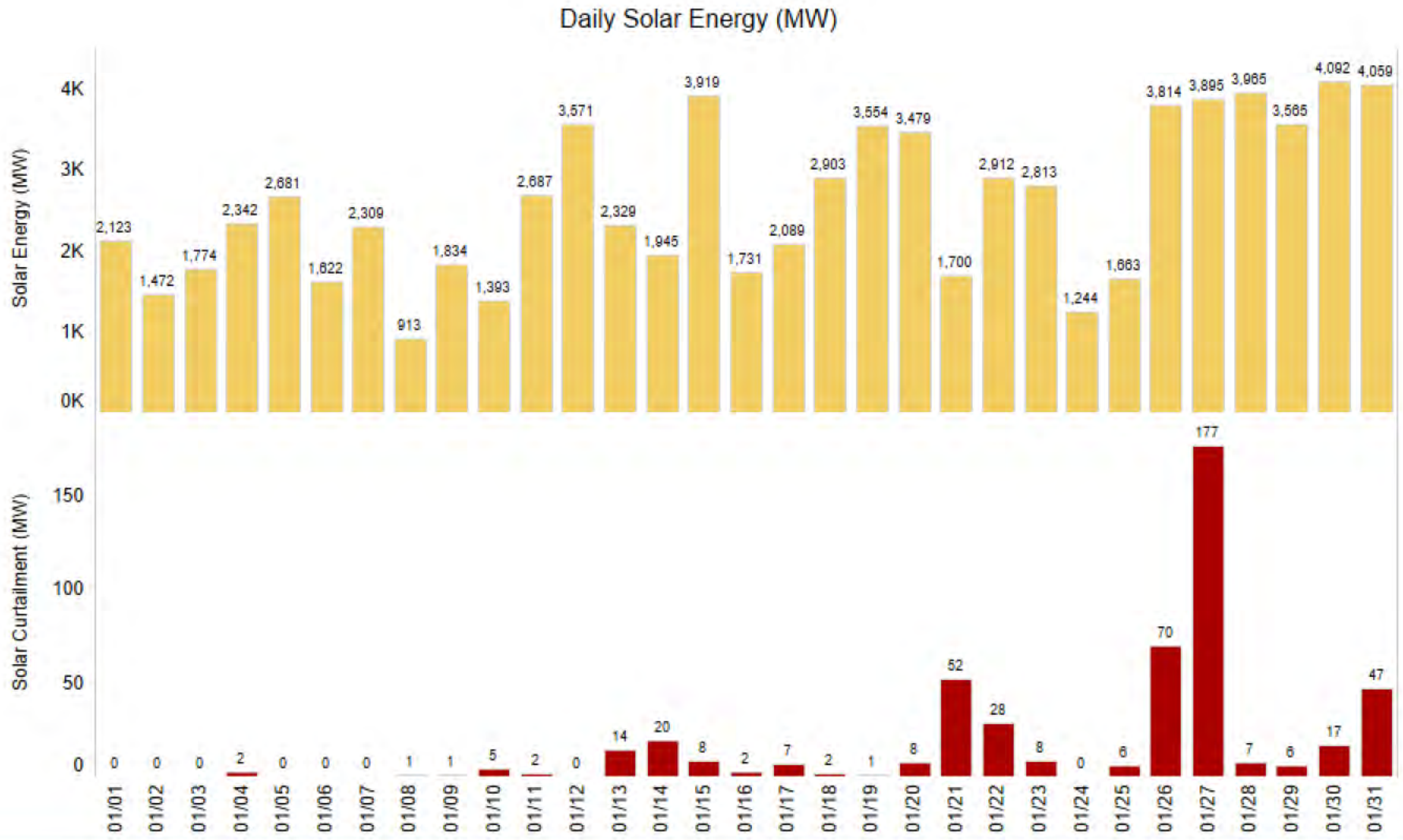
As of 09/05/2025
Registered Solar Capacity = 20,436 MW; Inservice Solar Capacity = 15,223 MW
Registered DIR Capacity = 20,264 MW; Inservice DIR Capacity = 15,051 MW



Peak Solar Date and Hour Ending	Jan-25 1/20 12	Feb-25 2/21 12	Mar-25 3/22 15	Apr-25 4/16 14	May-25 5/31 13	Jun-25 6/22 11	Jul-25 7/1 12	Aug-25 8/3 11	Sep-25 9/7 11	Oct-25 10/9 15	Nov-25 11/3 16	Dec-25 12/14 15	Jan-26 1/30 13
Peak Hour Solar Output (MW)	8,308	11,360	12,061	12,342	13,366	12,872	13,129	13,821	14,315	13,673	12,914	11,036	13,485
Peak Solar Output as a % of MISO Load in that hour	8.4%	12.4%	18.8%	18.0%	19.2%	12.9%	13.3%	18.6%	22.2%	17.9%	18.3%	12.7%	15.0%
Solar Energy as a % of MISO Energy	2.6%	3.5%	6.0%	5.4%	6.0%	6.0%	5.5%	6.3%	6.2%	5.4%	3.6%	3.5%	4.6%
DIR Dispatch below MAX as a % of avail. DIR	-1.9%	0.1%	1.1%	0.5%	-0.1%	-0.1%	-0.4%	-0.1%	0.8%	1.5%	0.7%	1.0%	0.0%

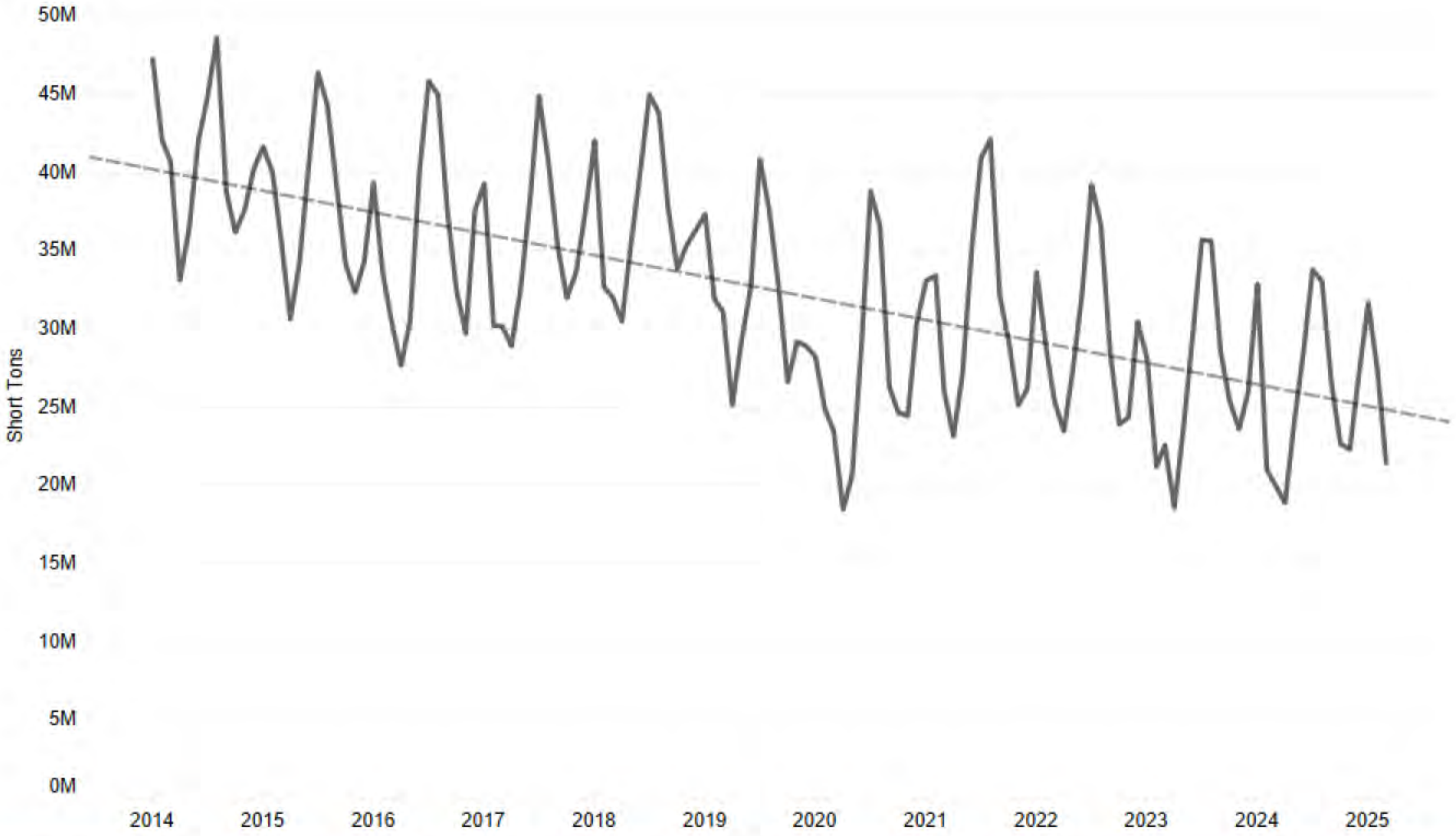
**Hourly State Estimator data*
Source: MISO Forecast Department

Daily Average Solar Energy and Curtailment



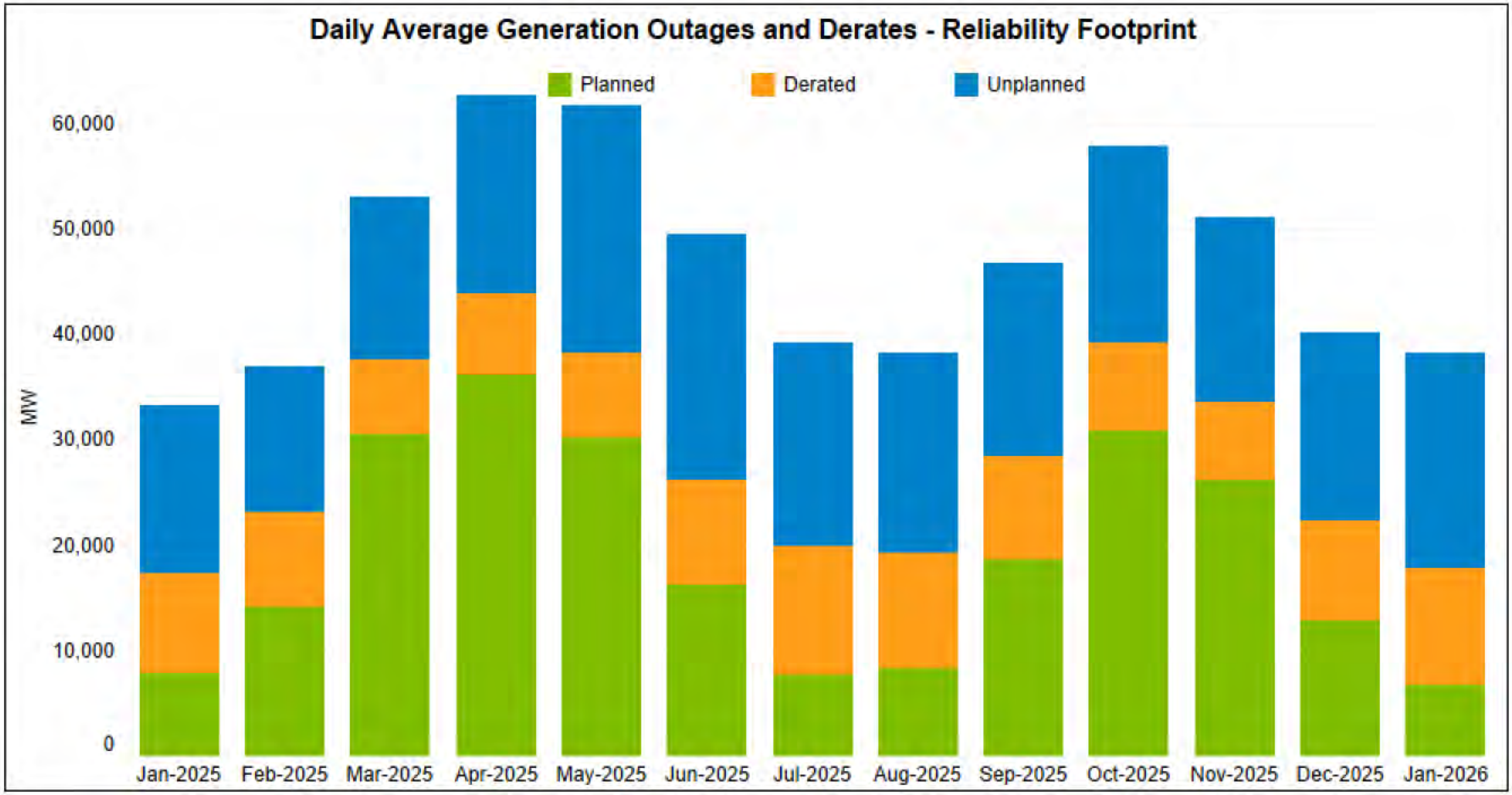
Source: MISO Market and Operations Analytics Department

Carbon Emissions



Data Source: EPA emissions through March 2025 and EPA EIA-860 2023
Emissions generated from MISO generators and does not account for volume of imports or exports
One Short Ton = 2000 lbs

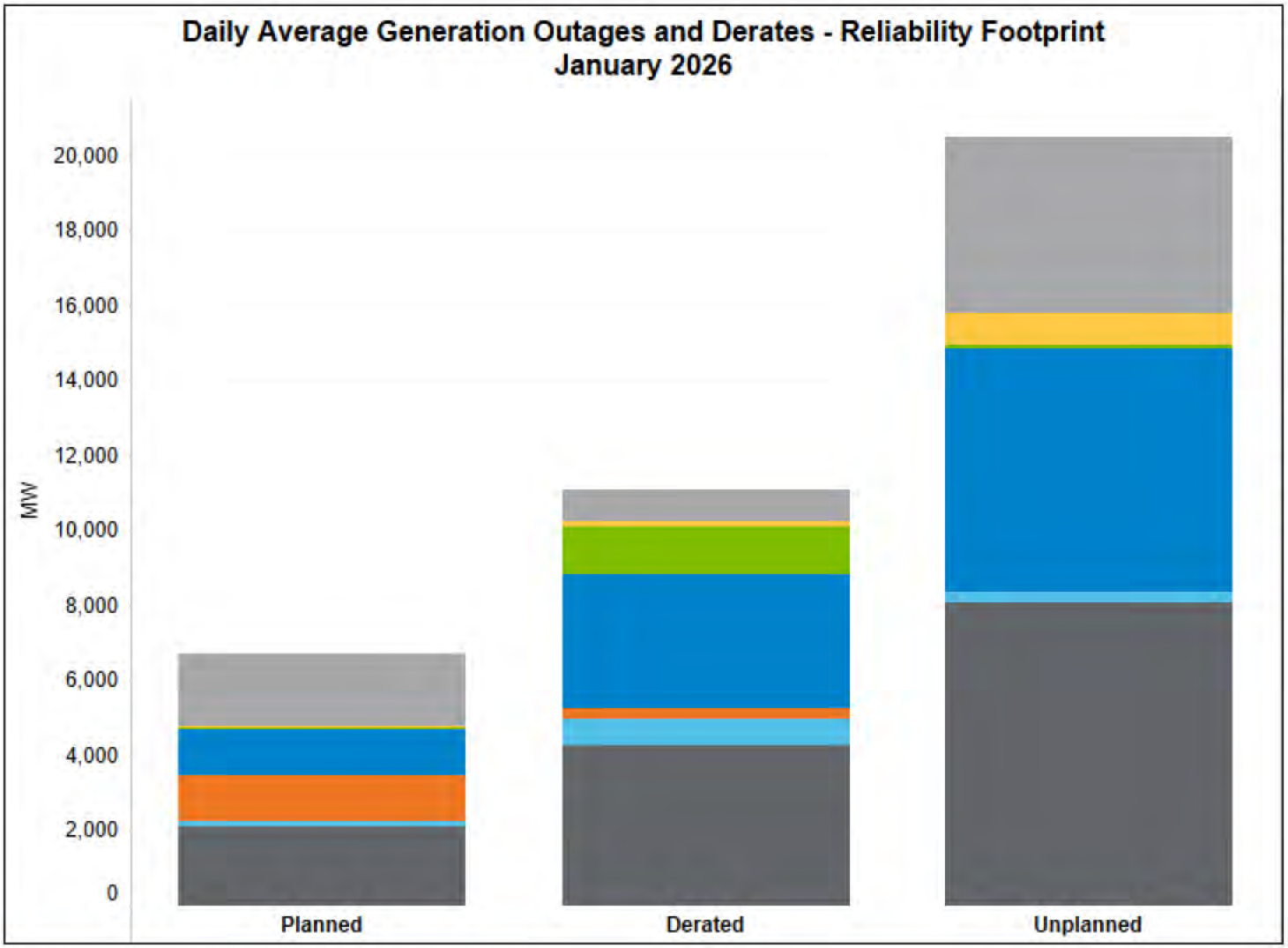
Generation Outages and Derates



Notes:
- *Unplanned Outages include Emergency, Forced, and Urgent*
- *Planned Outages include Planned*
- *De-rates are based on limits observed in Real-Time and may not reflect normal seasonal de-rates or de-rates for maintenance or other operating conditions*

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction
Source: MISO CROW Outage Scheduler

Generation Outages by Fuel

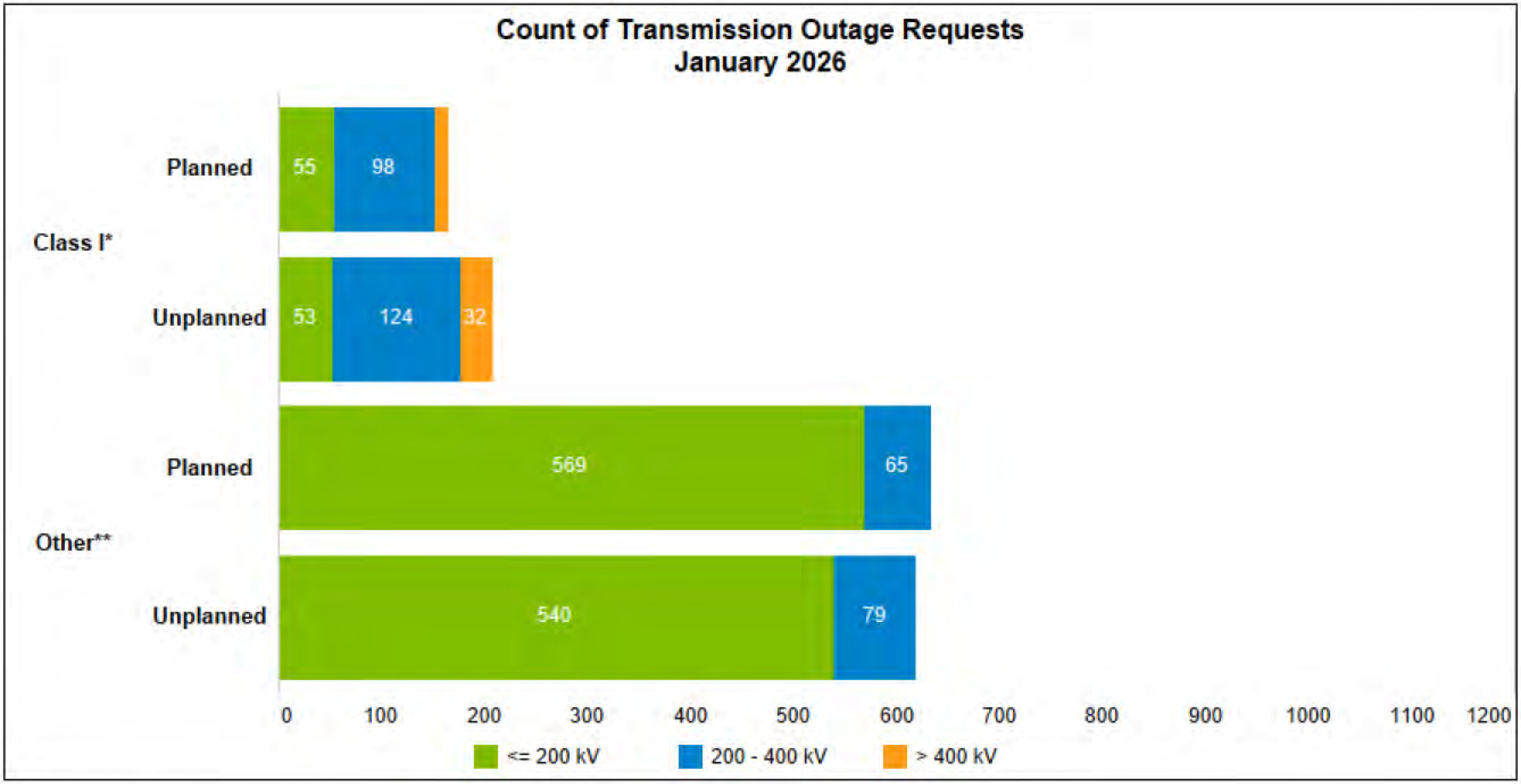


Notes:
- *Other includes Oil ,Hydro, Pet coke, Waste, BTMG, and units not in market footprint*
- *Unplanned Outages include Emergency, Forced, and Urgent*
- *Planned Outages include Planned*
- *De-rates are based on limits observed in Real-Time and may not reflect normal seasonal de-rates or de-rates for maintenance or other operating conditions*

Coal
Hydro
Nuclear
Gas
Wind
Solar
Other

Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction
Source: MISO CROW Outage Scheduler

Transmission Outages



Notes:
- *Class 1 is any facility which has a reliability or market impact on transmission system operations*
- *Other is any facility which does NOT have a reliability or market impact on transmission system operations*
- *Unplanned Outages include Emergency, Forced, Discretionary and Urgent*
- *Planned Outages include Planned, Opportunity*

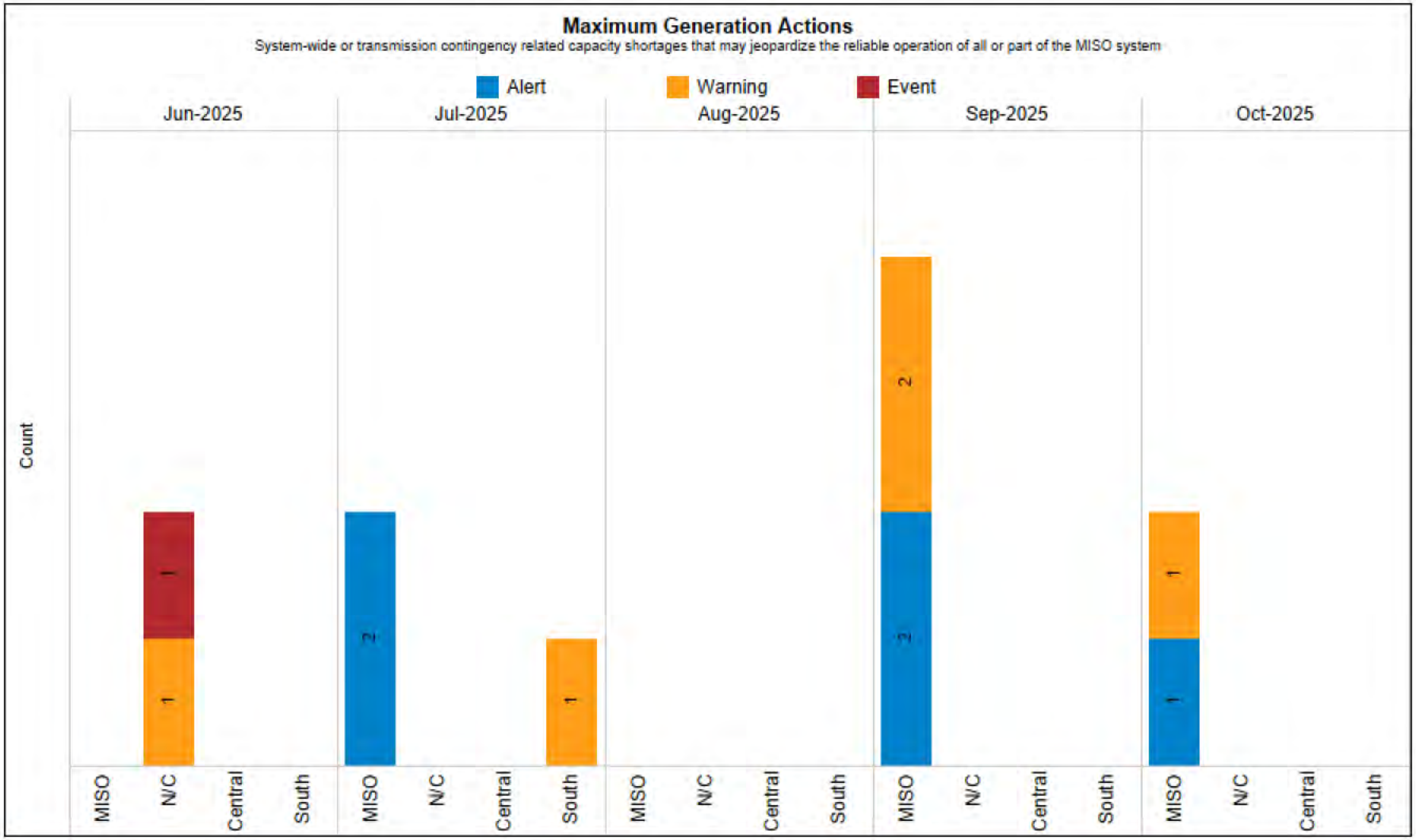
Outage data is "point in time" and can change; the chart reflects the data as it resided in the system on the date of extraction
Source: MISO CROW Outage Scheduler

MISO Inadvertent Balance

Month/Year	Net	On-Peak	Off-Peak
6/1/2024	-21,123	-10,382	-10,741
7/1/2024	-33,949	-12,863	-21,086
8/1/2024	-39,602	-15,448	-24,154
9/1/2024	-79,156	-36,769	-42,387
10/1/2024	-37,833	-17,446	-20,387
11/1/2024	-5,440	-2,237	-3,203
12/1/2024	-1,006	624	-1,630
1/1/2025	11,913	7,358	4,555
2/1/2025	23,852	17,127	6,725
3/1/2025	7,992	6,344	1,648
4/1/2025	22,512	14,664	7,848
5/1/2025	17,582	13,320	4,262
6/1/2025	9,239	6,344	2,895
7/1/2025	14,390	7,661	6,729
8/1/2025	-3,938	-5,525	1,587
9/1/2025	5,618	1,997	3,621
10/1/2025	23,968	9,295	14,673
11/1/2025			
12/1/2025			
1/1/2026			
Running Total from 2024	-84,981	-15,936	-69,045

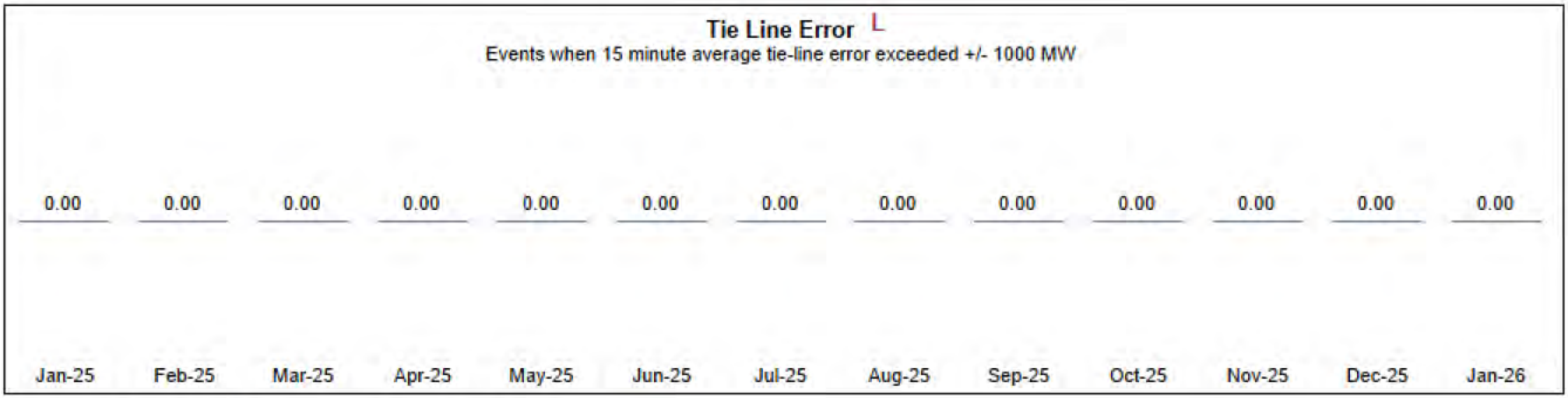
Source: NERC Tool (As of November 30, 2025)

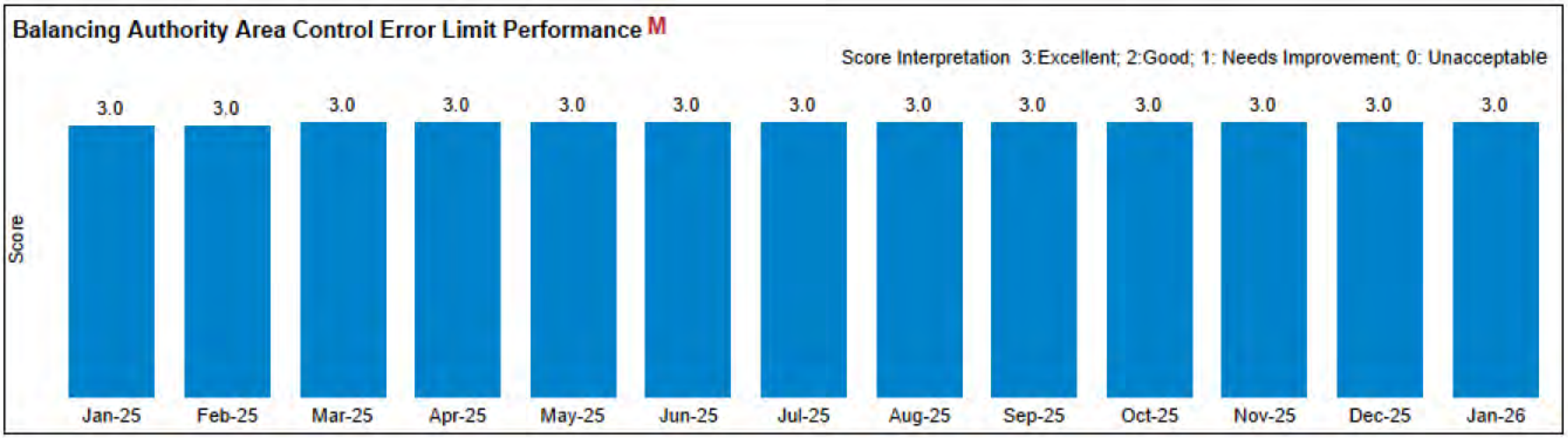
Generation Notifications



* Alerts – forecasting specific emergency situations in a future time-frame
* Warnings – experiencing initial stages of an emergency situation and taking action
* Events – experiencing an emergency situation and taking action

Tie Line and BAAL Performance

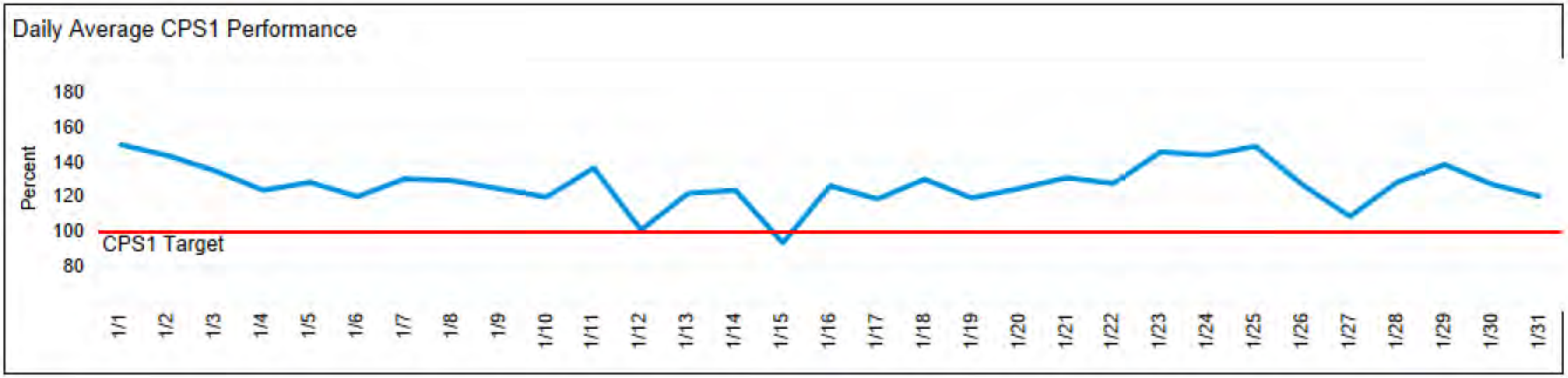


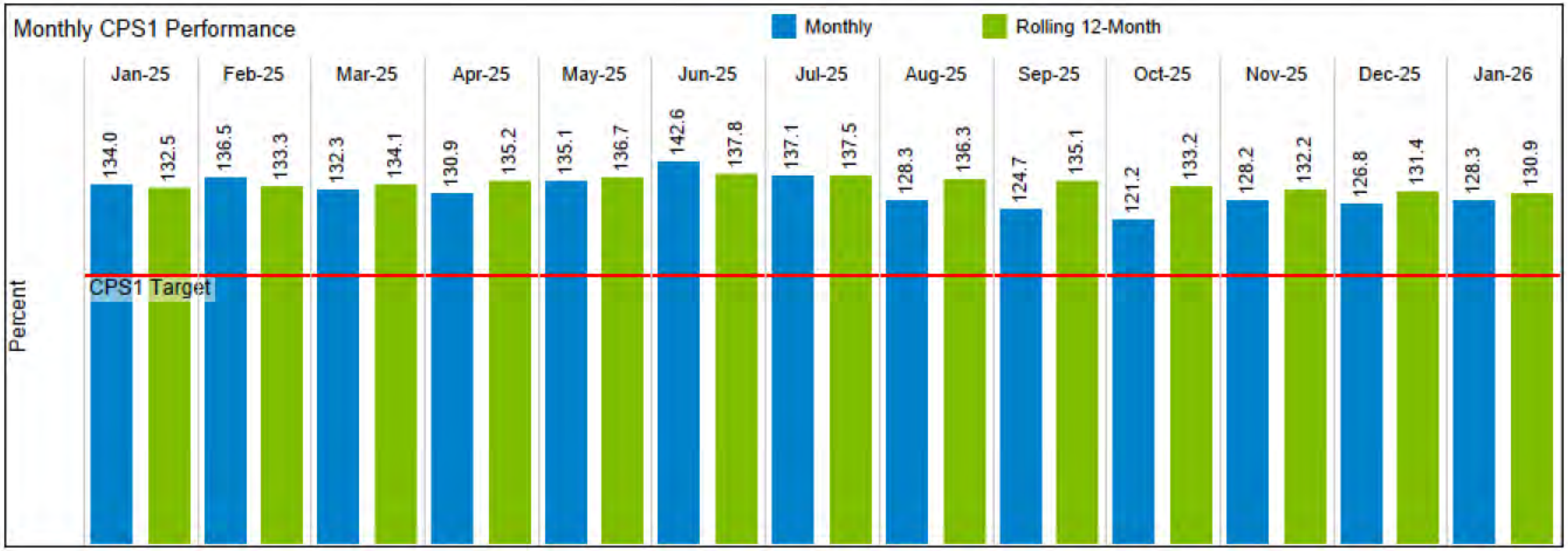


The Balancing Authority Area Control Error Limit (BAAL) measures control performance over the short-term. Exceeding BAAL for a continuous time period greater than 30 minutes constitutes a non-compliant event. The daily MISO BAAL performance rating is the lowest scored incident of the day.

Source: MISO Real-Time Operations Department

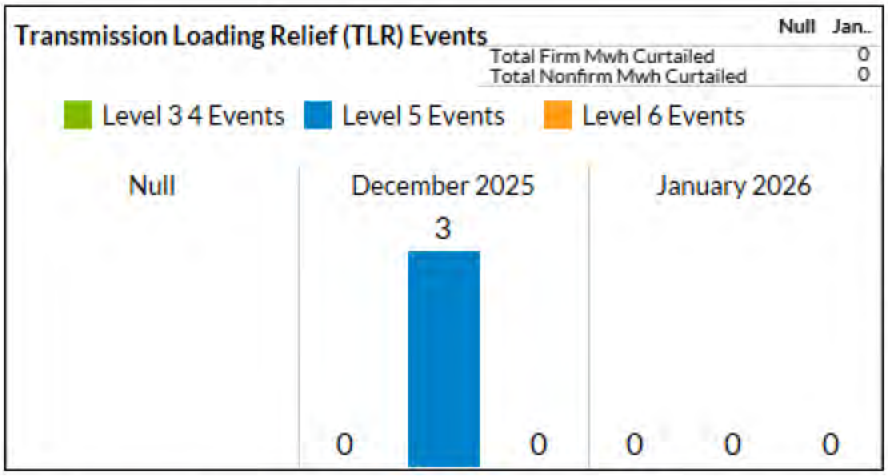
CPS1 Performance

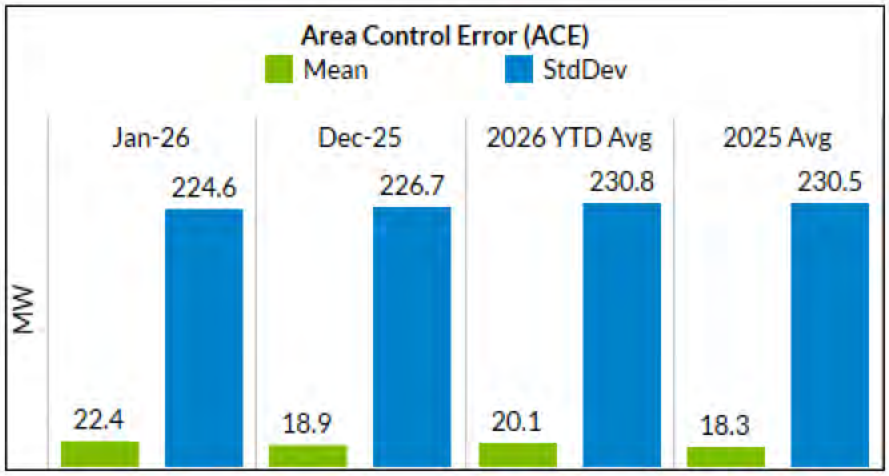


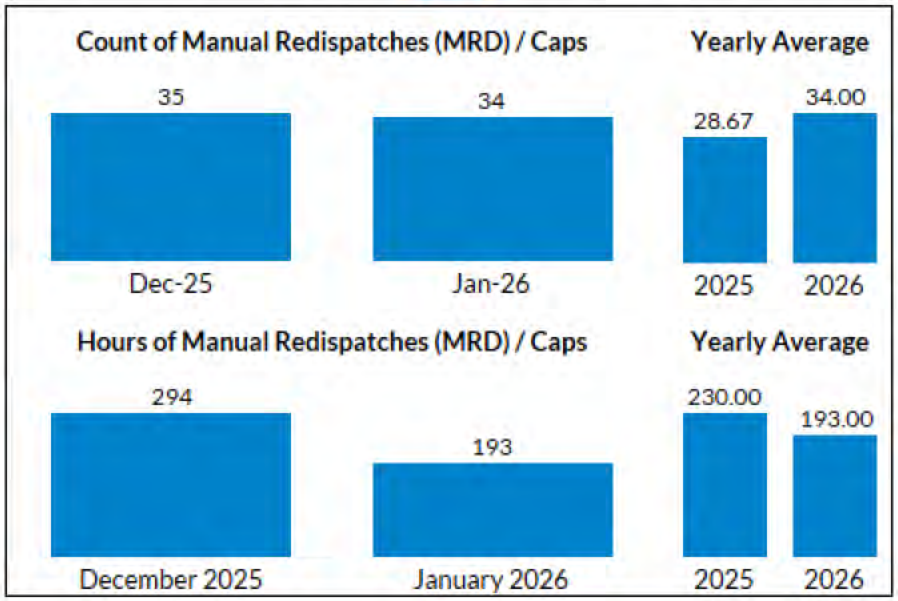


Per NERC Standard BAL-001-0 and MISO OP-044, the MISO will monitor CPS 1 performance and implement actions to ensure the MISO's rolling 12-month CPS 1 performance exceeds 100%
Source: MISO Real-Time Operations Department

Reliability – Other Metrics









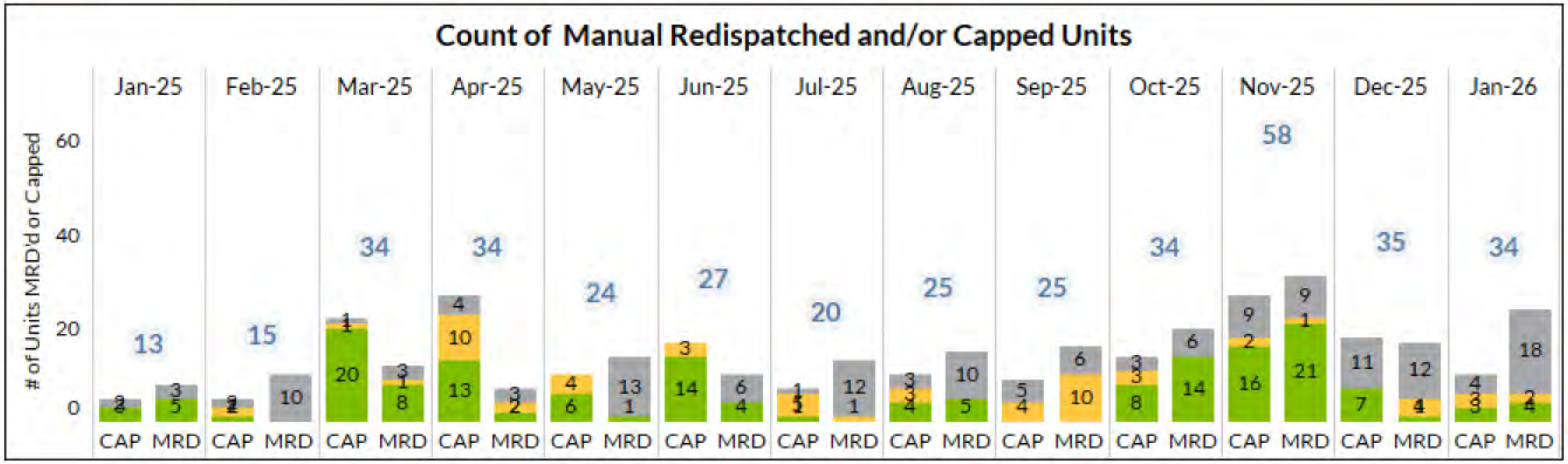
MISO deployed Contingency Reserves **

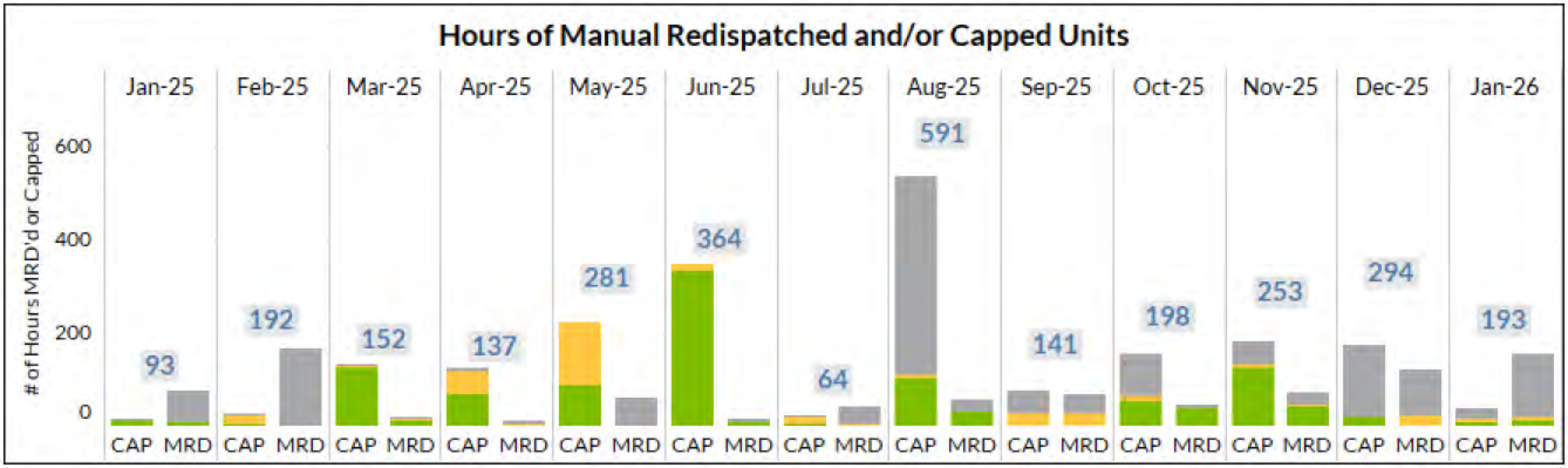
Date	HE	Deployment Type	MW
1/9/2026	11	ONLINE	805.3

Source: MISO Real-Time Operations Department

**Historical Contingency Deployment data located in *Related Documents* at https://cdn.misoenergy.org/202001-202103%20Additional%20Inform...

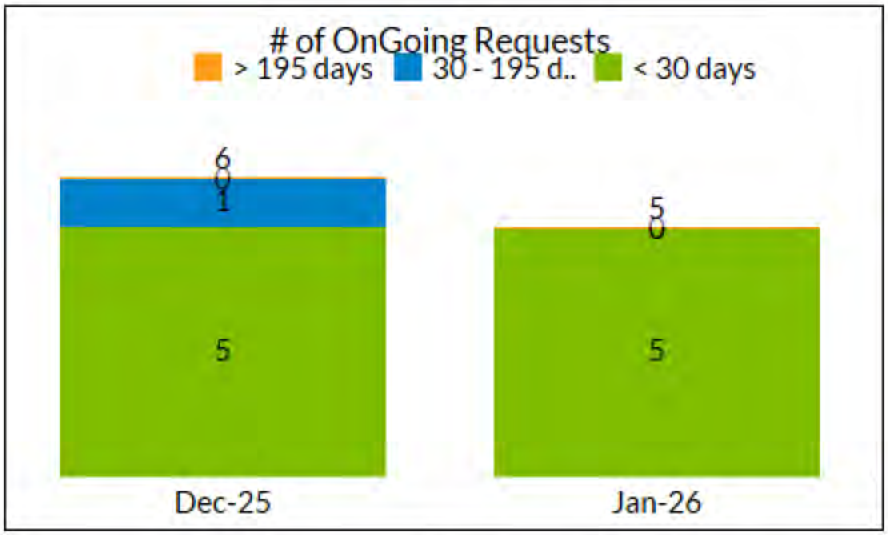
Operator Actions - Manual Redispatch and Caps

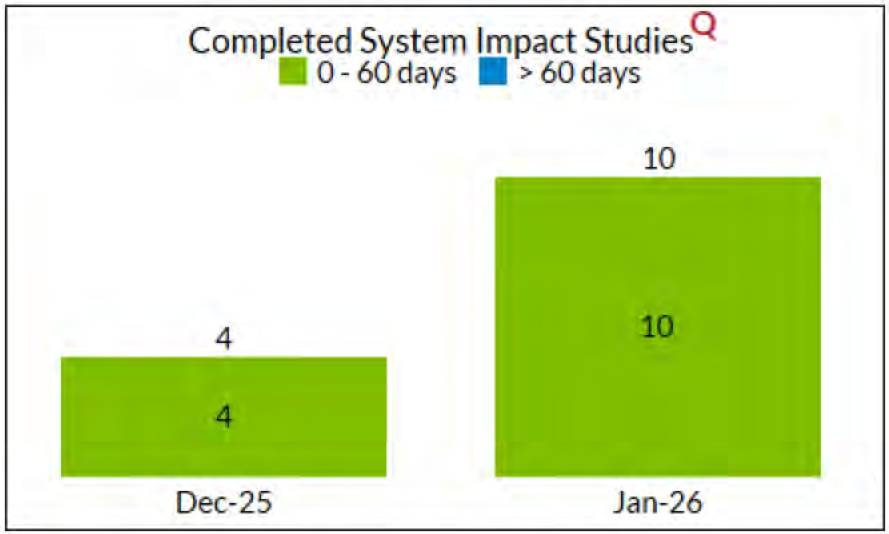


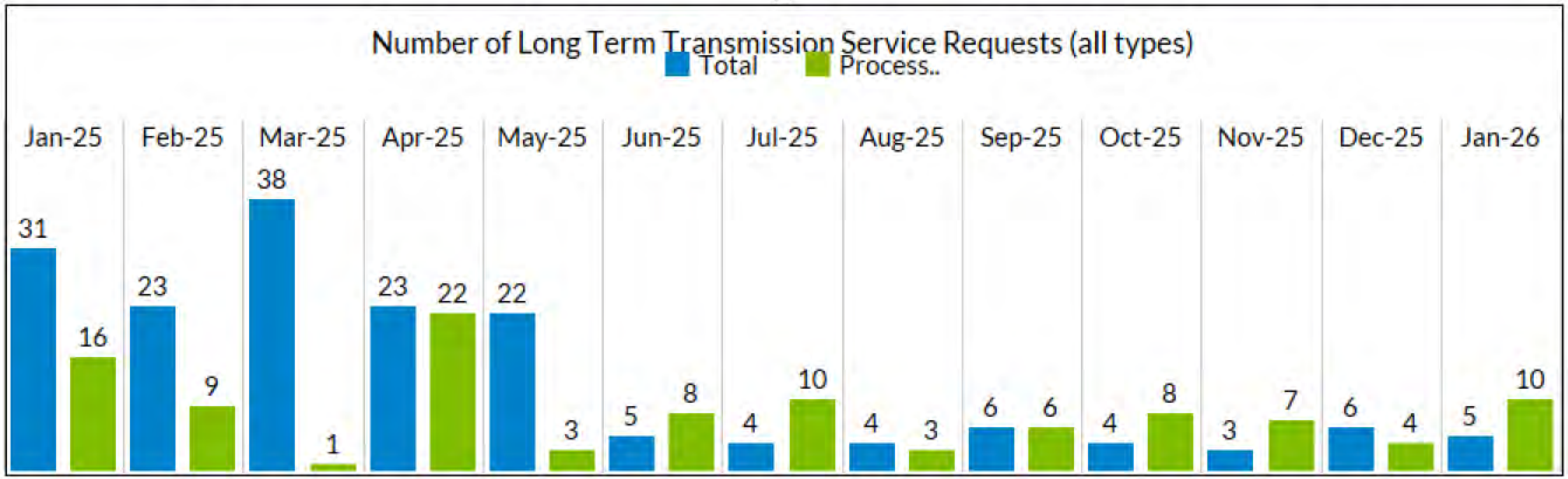


Source: MISO Market and Operations Analytics Department

Transmission Service Request

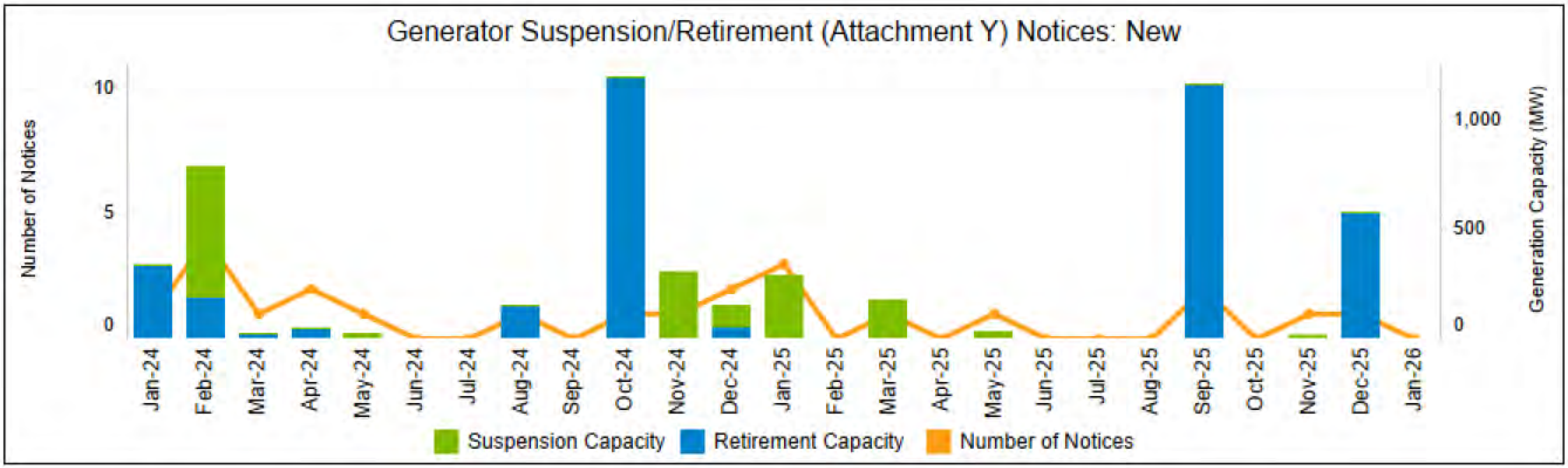


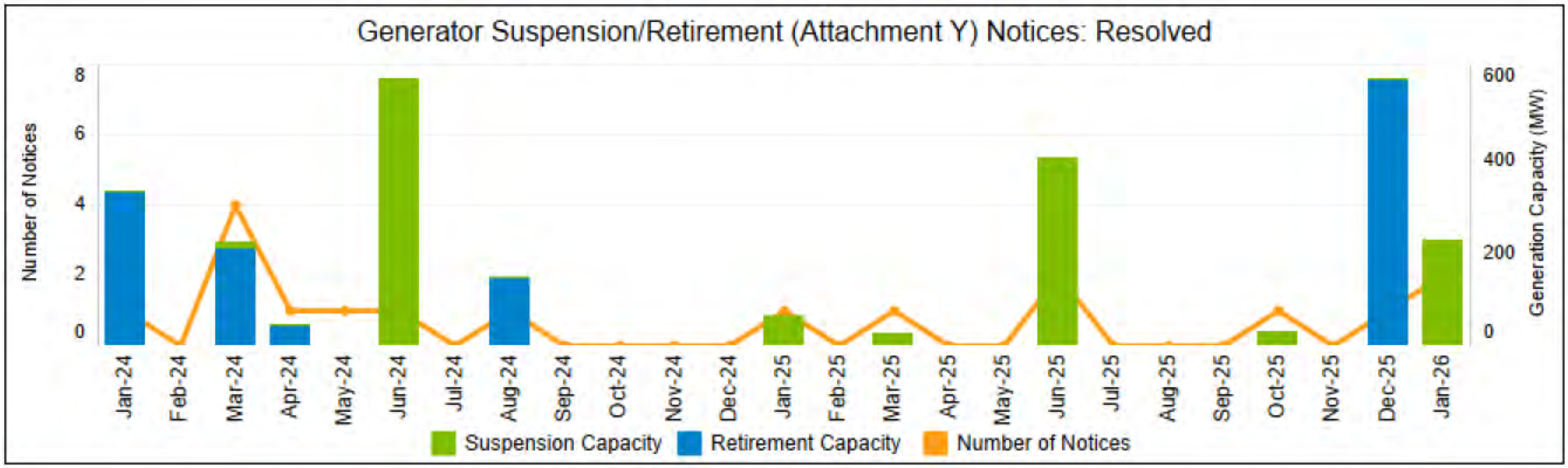




Source: MISO Resource Utilization

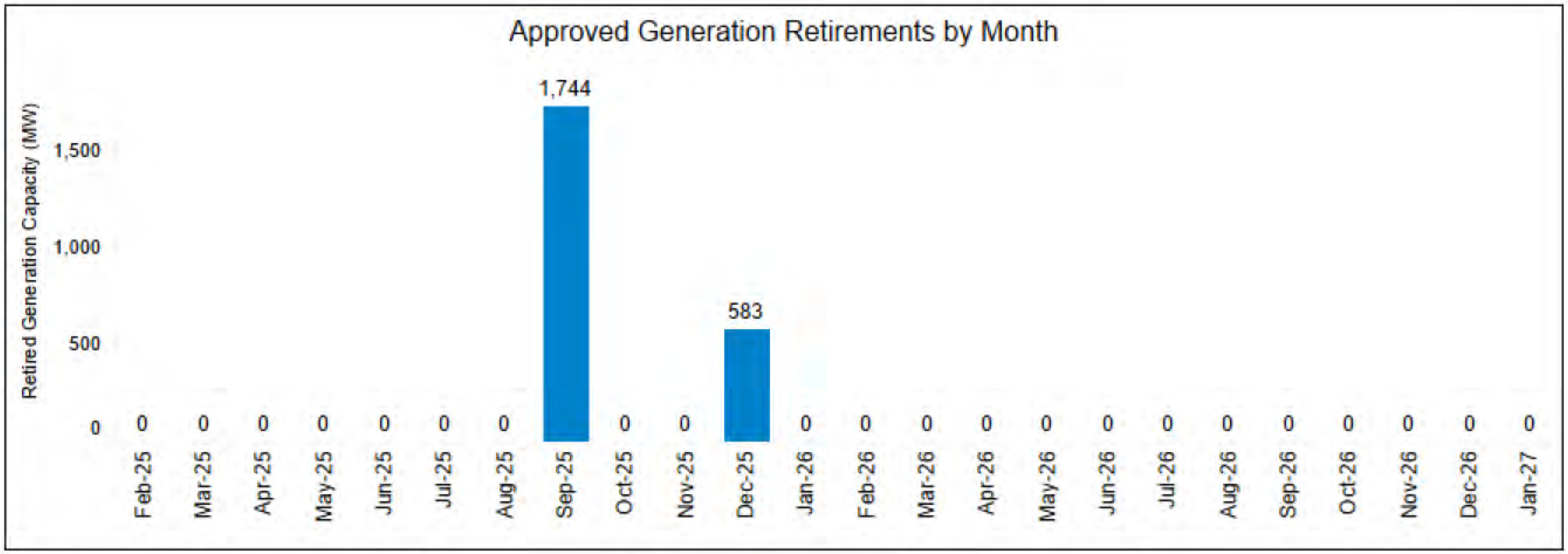
Generator Suspension/Retirement - New and Resolved





Source: MISO Transmission Planning Department

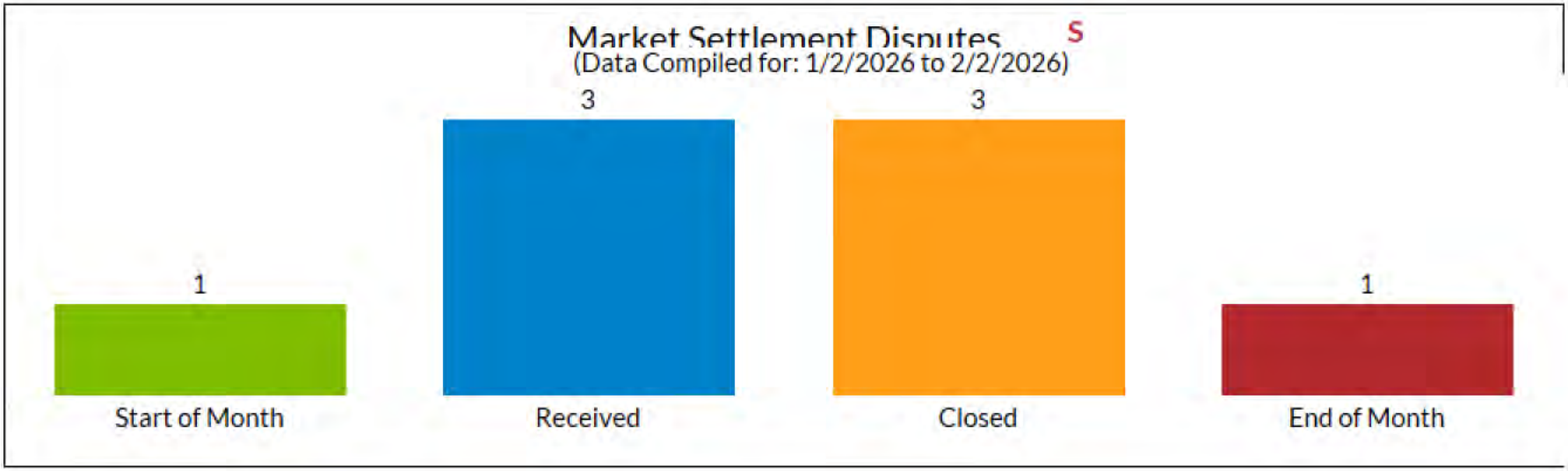
Generator Suspension/Retirement - Overall

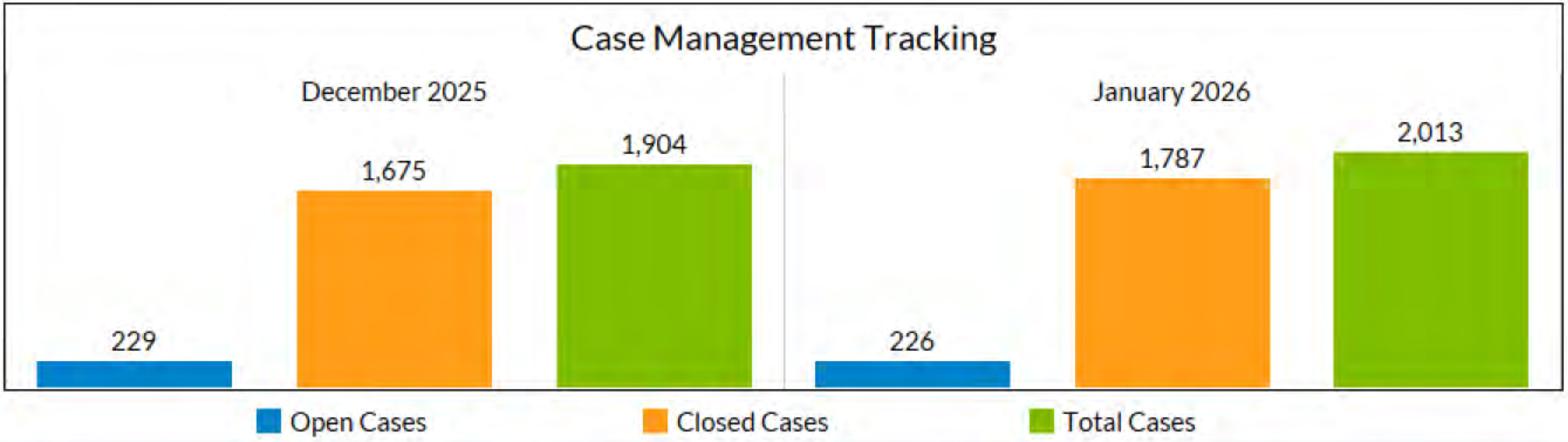




Source - MISO Transmission Planning Department

Settlements/Client Services and Readiness





Source: MISO Settlements and Client Services and Readiness Departments
Settlement values may change due to resettlement..

The Technology Committee reviews the performance requirements for system availability, and the results are evaluated in the Human Resources Committee

2025 Metrics

Short-Term Incentive Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	YTD	Threshold | Target | Excellent
Critical Systems Availability (Downtime in Hours)	0	0	1.5	0	0	0.1	0	0	0	0	0	0	1.6	4 Hours | 3 Hours | 2 Hours
Number of Critical System Incidents Exceeding 30 Minutes	0	0	1	0	0	0	0	0	0	0	0	0	1	2 | 1 | 0

Other Availability Metrics	JAN25	FEB25	MAR25	APR25	MAY25	JUNE25	JULY25	AUG25	SEPT25	OCT25	NOV25	DEC25	Monthly Target
ICCP (Availability %)	100	100	100	100	100	100	100	100	100	100	100	100	99.5
Customer Facing Applications – Portals (Availability Index)	10	10	10	9	10	10	9	10	10	10	10	10	10 of 10
Markets (Availability Index)	4	4	4	4	4	4	4	4	4	4	4	4	4 of 4
Reliability Targets (Availability Index)	3	3	3	3	3	3	3	3	3	3	3	3	3 of 3

**Trend lines represent quarter-over-quarter performance*

***ICCP = Inter-Control Center Communications Protocol*

2026 Dashboard Metric Criteria (1 of 2)

*New or revised 2026 Metric

Operational Excellence

Metric	Chart	Expected	Monitor	Review	Metric	Chart	Expected	Monitor	Review
Percentage Price Deviation*	A	Absolute DA-RT price difference divided by DA LMP <=31.8%	Absolute DA-RT price difference divided by DA LMP is >31.8% but <=37.0%	Absolute DA-RT price difference divided by DA LMP >37.0%	Unit Commitment Efficiency*	H	>=92%		<92%
Monthly Average Gross Virtual Profitability*	B	Within the standard deviation bands (threshold $0.61/MWh)	Outside the standard deviation bands		Real-Time Obligation fulfilled by Day-Ahead Supply at the Peak Hour	I	>=95%	>=93% but <95%	<93%
FTR Funding	C	Monthly FTR Allocation % is >=92% and YTD FTR Allocation % is >=96%	Not in good status AND Monthly FTR Allocation % is >=87% AND Rolling 12-month FTR Allocation % is >=93%	Not in Good AND not in Monitor status	Day Ahead Wind Generation Forecast Error	K	# of days that the hourly average forecast error exceeds 10% <= 6	# of days that the forecast error exceeds 10% >6 or Forecast error exceeds 15% in = 3 days	# of days that the forecast error exceeds 10% >8 or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
Market Efficiency Metric*	D	>= 90%		<90%	Day Ahead Solar Generation Forecast Error	T	# of days that the hourly average forecast error exceeds 10% <= 6	# of days that the forecast error exceeds 10% >6 or Forecast error exceeds 15% in = 3 days	# of days that the forecast error exceeds 10% >8 or Forecast error exceeds 15% in > 3 days or Forecast error resulted in declaring 1 Real Time Event
RSG per MWh to Energy Price*	E	<=0.39%	>0.39% and <=0.48%	>0.48%	Tie Line Error	L	<=1	>1 but <=3	>3
Day Ahead Mid-Term Load Forecast**	F	# of days that forecast error exceeds 3% <=6 AND # days that forecast error exceeds 4% <=4	# of days that forecast error exceeds 3% > 6 OR # days that forecast error exceeds 4% > 4 OR forecast error exceeds 6% on >= 1 day	# of days that forecast error exceeds 3% > 10 OR # days that forecast error exceeds 4% > 8 OR forecast error exceeds 7% on >= 1 day OR Forecast error resulted in declaring 1 Real Time Event	Control Performance - BAAL	M	Monthly performance score >=2	Monthly performance score<2 but >=1	Monthly performance score <1

FTR YTD metric is applied beginning April

*** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds*

MISO

2026 Dashboard Metric Criteria (2 of 2)

**New or revised 2026 Metric*

Operational Excellence									
Metric	Chart	▲ Expected	■ Monitor	▼ Review	Metric	Chart	▲ Expected	■ Monitor	▼ Review
Short-Term Load Forecast	G	Forecast error exceeding the 95% percentile of forecast error for the past year <= 2 days	3 days <= Forecast error exceeding the 95% percentile of forecast error for the past year <= 5 days	Forecast error exceeding the 95% percentile of forecast error for the past year > 5 days	Control Performance – CPS1 and CPS1 12-month rolling	N	>=100%		<100%
					ARS Deployment	P	DCS monthly average % recovery (APR) = 100%	Analysis of event not yet complete	DCS monthly average % recovery (APR) confirmed <100%
Customer Service									
System Impact Study Performance	Q	Studies completed in less than 60 days >=85%	Studies completed in less than 60 days <85% but >=75%	Studies completed in less than 60 days <75%	Settlement Disputes	S	Increase of up to 20 disputes	Increase of between 20 and 50 disputes	Increase of more than 50 disputes

FTR YTD metric is applied beginning April

*** Forecast errors observed in March, April, October and November will be measured by 1% lower thresholds ..*

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 184A
Schahfer Landfill 2025 Groundwater Monitoring Report
Part 1

From:	Ford, Hannah R
To:	IDEM OLQ Solid Waste Permits Submittals
Subject:	FW: NIPSCO Schahfer Station RWS I Landfill (FP 37-01): Semi-Annual GW Report, SSI Notice and Data File - September 2025 Sampling Event
Date:	Monday, November 10, 2025 1:50:01 PM
Attachments:	transmittal_letter_IDEM_September 2025.pdf

Please upload the transmittal letter to VFC dated 11/10/25. The 3 datafiles were sent to geologydata already. Thanks!

From: Bethany Flaherty <bflaherty@appliedgeology.net>
Sent: Monday, November 10, 2025 1:06 PM
To: Ford, Hannah R <HFord@idem.IN.gov>
Cc: Loewe \ Jeff <JLoewe@nisource.com>; 'Robert King' <rking@appliedgeology.net>; HARMLESS, MARTY <MHARMLES@idem.IN.gov>; Kalemba \ Scott <skalemba@nisource.com>; Travis Sitko <tsitko@appliedgeology.net>
Subject: NIPSCO Schahfer Station RWS I Landfill (FP 37-01): Semi-Annual GW Report, SSI Notice and Data File - September 2025 Sampling Event

This is the first time you received an email from this sender (bflaherty@appliedgeology.net). Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

EXTERNAL EMAIL: This email was sent from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Good afternoon, Ms. Ford,

On behalf of NIPSCO, AGES is submitting the Semi-Annual Groundwater Report (September 2025 Sampling Event) and Notification of Phase I Constituent Statistically Significant Increases (SSIs) and Phase II Constituent Statistically Significant Levels (SSLs) for the Schahfer Generating Station RWS I Landfill (FP 37-01). These documents are being submitted to meet *Requirements E22* and *E19* of the landfill operating permit (effective May 27, 2020). Additionally, the September 2025 electronic data file is included in this submittal per *Requirements E23*. Per communication with the IDEM Geology Section, AGES will submit this file directly to geologydata@idem.in.gov (and cc Mr. Harmless).

The transmittal letter is attached, and the three (3) files (which can be found using the link below) comprise this electronic submittal.

https://ages.egnyte.com/fl/p36jWj8q3vqC
Password: H4bhR68fVkp1

Thank you,
Bethany

Bethany Flaherty
AGES, Inc.

www.appliedgeology.net
cell: 614-432-0377

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
www.appliedgeology.net
412. 264. 6453 412. 264. 6567

November 10, 2025

Ms. Hannah Ford
Office of Land Quality
Indiana Department of Environmental Management
Solid Waste Permits Section
100 North Senate Avenue
MC 65-45 IGCN 1101
Indianapolis, Indiana 46204

Subject: **Submittal of Semi-Annual Groundwater Monitoring Report**
September 2025 Monitoring Event, Notification of Phase I Constituents
Statistically Significant Increases (SSIs) and Phase II Constituents
Statistically Significant Levels (SSLs), and Electronic Data File
Solid Waste Facility Permit FP 37-01
RM Schahfer Generating Station RWS I
Jasper County, Indiana

Dear Ms. Ford:

On behalf of Northern Indiana Public Service Company, LLC (NIPSCO), enclosed with this letter you will find an electronic submittal of the above-referenced report and Notification of SSIs (Phase I constituents) and SSLs (Phase II constituents). Also included in this email is an Excel file of the laboratory and field results from this semi-annual sampling event in the IDEM requested format for the database. Per conversations with the IDEM Geology Section, this will be submitted directly to olqdata@idem.in.gov.

If you have any questions regarding this report, please feel free to call us at 412-264-6453.

Sincerely,

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC.

Bethany Flaherty
Senior Program Manager I

Robert W. King, L.P.G. #1237
Chief Hydrogeologist

Enclosures (three (3) email attachments)

Cc: J. Loewe, NiSource

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
www.appliedgeology.net
P 412. 264. 6453 F 412. 264. 6567

November 10, 2025

Ms. Hannah Ford
Office of Land Quality
Indiana Department of Environmental Management
Solid Waste Permits Section
100 North Senate Avenue
MC 65-45 IGCN 1101
Indianapolis, Indiana 46204

Subject: **Notification of Phase I Constituents Statistically Significant Increases (SSIs) and Phase II Constituents Statistically Significant Levels (SSLs)**
September 2025 Monitoring Event
Restricted Waste Site Type I Landfill – RM Schahfer Generating Station
Jasper County, Indiana
Solid Waste Land Disposal Facility, FP 37-01

Dear Ms. Ford:

On behalf of Northern Indiana Public Service Company, LLC (NIPSCO), Applied Geology and Environmental Science, Inc. (AGES) is providing to the Indiana Department of Environmental Management (IDEM) this official notification of statistically significant increases (SSIs) identified for the Phase I and II Groundwater Monitoring Programs at the Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station. SSIs were identified for two (2) or more Phase I constituents in several downgradient or downstream sampling locations and for Phase II constituents at downgradient sampling locations.

SEMI-ANNUAL GROUNDWATER MONITORING REPORT INFORMATION

On November 10, 2025, NIPSCO and AGES submitted the Semi-Annual Groundwater Monitoring Report for the September 2025 monitoring event for the on-going groundwater monitoring program at the RM Schahfer Generating Station, located in Jasper County, Indiana, to the IDEM.

SSI NOTIFICATION

The purpose of this letter is to formally notify the IDEM that SSIs and SSLs were identified for the Phase I and II Groundwater Monitoring Programs, respectively, at the site.

Phase I Groundwater Monitoring Program Results

For the Phase I monitoring, SSIs were identified for two (2) or more Phase I constituents at the following downgradient sampling locations:

Shallow Wells

- MW-2S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and Total Dissolved Solids [TDS]);
- MW-3Sa (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-4S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-5S (Field Specific Conductance, Total Boron, Total Calcium, Fluoride, Sulfate, and TDS);
- MW-6S (Field pH and Sulfate);
- MW-7S (Fluoride, Sulfate, and TDS); and
- MW-14S (Field pH and Fluoride).

Deep Wells

- MW-2D (Field Specific Conductance, Chloride, Fluoride, Sulfate, and TDS);
- MW-3D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-4D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-5D (Field Specific Conductance, Total Boron, Total Calcium, Chloride, Sulfate, and TDS);
- MW-6D (Field pH and Sulfate);
- MW-7D (Field pH, Chloride, and Sulfate);
- MW-9D (Chloride and Fluoride);
- MW-11D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-12D (Field Specific Conductance, Total Calcium, Chloride, Sulfate, and TDS);
- MW-13D (Field pH, Field Specific Conductance, Chloride, Sulfate, and TDS); and
- MW-14D (Field pH, Chloride, and Sulfate).

Surface Water Location

- SW-4 (Field Specific Conductance, Total Boron, Chloride, Fluoride, Sulfate, and TDS).

Phase II Groundwater Monitoring Program Results

For the Phase II monitoring, SSLs over the GWPSs were identified for Phase II constituents at the following downgradient sampling locations:

Shallow Wells

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);

- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

Deep Wells

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water Location

- SW-4 (Total Molybdenum).

In accordance with permit *Requirement E19*, this notification to the IDEM is being made within 14 days of these findings.

CLOSING

If you have any questions regarding this request, please do not hesitate to contact us at 412-264-6453.

Sincerely,

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC.

Bethany Flaherty
Senior Program Manager I

Robert W. King, L.P.G. #1237
Chief Hydrogeologist

Cc: J. Loewe, NiSource

AGES
Applied Geology And Environmental Science, Inc.

2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
www.appliedgeology.net
412. 264. 6453
412. 264. 6567

PHASE I AND II GROUNDWATER MONITORING REPORT
SEMI-ANNUAL MONITORING EVENT
SEPTEMBER 2025
RESTRICTED WASTE SITE TYPE I (RWS I) LANDFILL
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA

NOVEMBER 2025

Prepared for:

NORTHERN INDIANA PUBLIC SERVICE COMPANY, LLC (NIPSCO)

Prepared by:

APPLIED GEOLOGY AND ENVIRONMENTAL SCIENCE, INC. (AGES)

PHASE I AND II GROUNDWATER MONITORING REPORT
SEMI-ANNUAL MONITORING EVENT
SEPTEMBER 2025
RESTRICTED WASTE SITE TYPE I (RWS I) LANDFILL
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA

NOVEMBER 2025

Prepared for:

NORTHERN INDIANA PUBLIC SERVICE COMPANY, LLC (NIPSCO)

Prepared by:

Applied Geology and Environmental Science, Inc. (AGES)

Bethany J. Flaherty

Bethany Flaherty
Senior Program Manager I

Robert W. King

Robert W. King, L.P.G. 1237
Chief Hydrogeologist

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1.0 INTRODUCTION

1.1 Background

In January 1984, the Northern Indiana Public Service Company, LLC (NIPSCO) received an operating permit from the Indiana Department of Environmental Management (IDEM) to operate a Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, which is approximately 16 miles south of Valparaiso, Indiana (Figure 1). Under this permit, NIPSCO has implemented a routine Phase I Groundwater Monitoring Program at the site, in accordance with a Sampling and Analysis Plan (SAP) that was prepared by NIPSCO and approved by the IDEM in August 1999. The results of the monitoring program were provided to the IDEM in semi-annual monitoring reports.

In May 2005, the IDEM issued a letter to NIPSCO indicating that, because statistically significant increases (SSIs) over background concentrations had been detected for two (2) or more constituents, a Phase II Groundwater Monitoring Program was required at the site. The IDEM also requested that future semi-annual monitoring reports include statistical results, tabulated data, and a comparison of data to regulatory standards (Maximum Contaminant Levels, Secondary Maximum Contaminant Levels, Removal Action Levels, and Drinking Water Equivalent Limits). Per this request, in March 2006, Applied Geology and Environmental Science (AGES), Inc. prepared a Revised SAP for the site, which was reviewed and approved by the IDEM in April 2006. The SAP was implemented during the semi-annual groundwater sampling events from September 2006 through April 2020.

To update the statistical program for the site in line with the most current guidance (Statistical Analysis of Groundwater Monitoring Data at Resource Conservation and Recovery Act [RCRA] Facilities, Unified Guidance [U.S. EPA 2009]), in July 2018, AGES submitted a revised title page and revised pages six (6) through 10 of the SAP (the Statistical Evaluation Plan [StEP]) to the IDEM for review and approval. On April 15, 2018, NIPSCO received IDEM approval of the revised statistical approach, which was used to evaluate data from September 2018 through the April 2020 sampling event.

1.2 Permit Renewal: May 2020

In May 2020, the renewal of the RWS I Landfill operating permit for the site was approved by the IDEM, with an expiration of April 2025. Per permit *Requirement E3*, the facility groundwater and surface water monitoring systems include 14 well clusters and two (2) surface water sampling locations (Figure 2 and Table 1).

A Background Groundwater Quality Plan (BGWQP), an updated SAP, and a Quality Assurance Project Plan (QAP_jP) were prepared and submitted to the IDEM in July 2020 in accordance with *Requirements I1*, *I2*, and *I3* of the permit, respectively. The purpose of the BGWQP was to specify background well locations that would allow for the development of background levels (unaffected by site conditions) for the parameters listed in the renewed permit. The QAP_jP was included as an appendix to the SAP; the purpose of the documents was to describe sampling and laboratory protocol, equipment, and methods for collecting groundwater and surface water samples for the parameters listed in the renewal permit. The three (3) plans were approved by the IDEM in September 2020. All sampling events were conducted in accordance with the SAP.

To comply with permit *Requirement E17*, background groundwater and surface water samples were collected and analyzed for Phase I and Phase II constituents, secondary standards in 329 IAC 10-29-7(c), and parameters for which a Groundwater Protection Standard (GWPS) has been established in 329 IAC 10-29-10. Per *Requirement E17*, samples were collected from each background location (MW-1S, MW-1D, MW-10S, MW-10D, and SW-10) during four (4) quarterly sampling events from September 2020 through June 2021. Upon receipt, review, and verification of the analytical data from the fourth round of background sampling, the background groundwater quality was established for the site on July 23, 2021.

To comply with permit *Requirement I4*, a StEP was prepared within 60 days after background groundwater quality was established at the site and submitted to the IDEM in August 2021. The StEP was prepared in accordance with 329 IAC 10-29-5 and presents data distribution assumptions, an approach for verification resampling, and proposes a method of statistical evaluation for the monitoring program. The StEP was approved by the IDEM in October 2021.

In accordance with permit *Requirement E22*, a Semi-Annual Groundwater Monitoring Report for the September 2021 Phase I monitoring event was prepared and submitted in November 2021. The report was approved by the IDEM in December 2021. To comply with permit *Requirement E19a*, on November 12, 2021, the IDEM was notified that SSIs were identified for two (2) or more Phase I constituents at downgradient or downstream sampling locations.

Accordingly, to comply with permit *Requirement E19b*, samples were collected from all monitoring wells and surface water locations and analyzed for Phase II constituents in November/December 2021, and the results were submitted to the IDEM. In February 2022, in accordance with permit *Requirement E19c*, a letter report establishing the Phase II Groundwater

Monitoring Program at the site was submitted to the IDEM, and a conference call to consult with the IDEM Geology Section was requested.

On February 22, 2022, representatives from NIPSCO, AGES, and the IDEM held a Microsoft Teams meeting to discuss the Phase I and II Groundwater Monitoring Programs at the site. It was discussed in the meeting that the background data set for groundwater at the site only included five (5) sampling events and not the eight (8) events recommended for the establishment of background. Therefore, it was concluded that quarterly sampling would continue at the site until the eight (8) background events have been conducted.

The eighth round of data for the Phase I and II constituents was collected during the September 2022 monitoring event. The updated statistical evaluation of the background quality data was included in the semi-annual report for that event in accordance with permit *Requirement E22*. That report identified SSIs for two (2) or more Phase I constituents; therefore, the Phase II constituent data was statistically evaluated as part of the Phase II Groundwater Monitoring Program. For more than one (1) Phase II constituent, statistically significant levels (SSLs) over respective GWPSs at downgradient sampling locations were identified. SSLs were not identified in the surface water location. In accordance with permit *Requirement E19c*, a conference call to consult with the IDEM Geology Section was requested.

On December 21, 2022, representatives from NIPSCO, AGES, and the IDEM held a Microsoft Teams meeting. During the meeting, the Phase I and II Groundwater Monitoring Programs at the site were discussed. The IDEM provided standard recommendations for implementing an effective assessment monitoring program. Additionally, NIPSCO indicated that a corrective action program would be pursued as part of the program, as required under 329 IAC 10-29-9 and in accordance with permit *Requirement E21*. In accordance with the recommendations provided by the IDEM during the meeting and via email (provided in Appendix A), information regarding the following items will be incorporated into future reports:

- A specific section in the report that discusses the status of the assessment monitoring program for the site, including progress on the assessment of corrective measures;
- Mann-Kendal statistical and Sen's Slope trend analyses of all constituents that exceed their corresponding GWPS;
- Isoconcentration maps of all constituents that exceed their corresponding GWPS;
- A specific section in the report that discusses the facility's plume characterization approach and an evaluation of the nature and extent of GWPS exceedances; and
- Information regarding the development of sampling locations and methods to determine groundwater quality beyond the Army Corps of Engineers' levee and potential impacts to the Kankakee River.

In accordance with permit *Requirement E21*, NIPSCO implemented a corrective action program, as required under 329 IAC 10-29-9, and submitted a program plan in May 2023. The plan provides

a conceptual approach for the evaluation and implementation of corrective actions at the site. Additionally, it provides specific information regarding geology and hydrogeology at the site, applicable results from the Phase I and II Groundwater Monitoring Programs, an overview of remedial technologies, a discussion of supplemental site characterization activities, and a discussion of the selection of remedy process.

Per permit *Requirement E19*, the Phase I and II Groundwater Monitoring Programs continue at the site in accordance with the SAP and QAP_jP. A semi-annual groundwater monitoring event was conducted in September 2025. This semi-annual groundwater monitoring report for the Phase I and II Groundwater Monitoring Programs has been prepared to comply with *Requirement E22*, which states that a groundwater monitoring report documenting each semi-annual sampling event will be submitted to the IDEM and will include the following information:

- One (1) original, unbound laboratory-certified report, with field reports and chain-of-custody forms;
- Groundwater information and flow maps;
- Documentation of field activities;
- Statistical evaluation report;
- Conclusions and recommendations; and
- An electronic data file of the analytical and field parameter results from the groundwater and surface system, as defined in permit *Requirement E23*.

As discussed above, this report also provides information regarding the items identified in the December 2022 meeting and via email (Appendix A). Additionally, a letter regarding the Phase I and II Groundwater Monitoring Event (report dated May 3, 2024) was sent from the IDEM to NIPSCO on August 28, 2024 (provided in Appendix A). This letter provided additional information regarding the facility's plume characterization approach to be incorporated into future reports. Therefore, this information, such as estimating the mass of the contaminants released, has been included herein.

1.3 Description of Facility

The RWS I Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, is approximately 16 miles south of Valparaiso, Indiana (Figure 1). The geology of the site is characterized by alluvial deposits, which overlay shale bedrock at an approximate depth of 33 feet below the ground surface. The alluvial deposits form the uppermost aquifer at the site. Groundwater within the alluvial deposits has generally been encountered within 10 feet of the ground surface.

Per permit *Requirement E3*, the facility groundwater and surface water monitoring system includes 14 well clusters and two (2) surface water sampling locations (Figure 2 and Table 1). Each well cluster includes one (1) shallow (S) well and one (1) deep (D) well, both of which are screened

within the alluvial aquifer. All of the wells are constructed of 1.75- to 2-inch nominal diameter polyvinyl chloride (PVC) with steel protective surface casings. The wells are labeled with the appropriate cluster number (i.e., MW-1S, MW-1D, MW-2S, etc.).

Wells MW-1S, MW-1D, MW-10S, and MW-10D are upgradient groundwater wells, and surface water sampling location SW-10 is at an upstream location (Figure 2 and Table 1). These background sampling locations are identified in both the renewal permit and the BGWQP and are unaffected by facility activities that may contribute parameters of concern.

2.0 DOCUMENTATION OF GROUNDWATER SAMPLING FIELD ACTIVITIES

2.1 Site Health and Safety

Per Occupational Safety and Health Administration (OSHA) regulations, a Site Specific Safety Plan (SSSP) was prepared and kept on-site during all field work. All persons entering the site were required to read and sign the SSSP daily. Emergency contacts, directions to the nearest hospital, and site hazards were included in the plan. Twice-daily health and safety meetings were conducted to discuss risks associated with the activities planned for each day, review general safety rules and responsibilities, and complete a job safety analysis (JSA) for each planned task. The facility-required health and safety training and orientation was also completed by AGES' staff.

2.2 Monitoring Well Sampling Activities

2.2.1 Well Inspections

Before measuring water levels or sampling, field staff inspected each well and documented its condition. The condition of the well pad, steel casing, lock, and hinged cover was also noted at each location. All wells were found to be in generally good condition, with operational locks and legible well identifiers.

2.2.2 Groundwater Level and Well Depth Measurements

Before groundwater sampling began, an electronic water level indicator was used to obtain a complete round of water level measurements from the monitoring wells and surface water locations. The water level indicator was decontaminated between wells with a non-phosphate detergent (such as Alconox) and a deionized (DI) water rinse. Depth to water and total depth of each well was measured to the nearest 0.01 foot and recorded in the Field Logbook. A summary of the depth to water measurements is presented in Table 2.

Groundwater flow maps for the shallow and deep aquifers from the September 2025 sampling event are provided on Figures 3 and 4, respectively. Based on these maps, groundwater in the uppermost aquifer (both shallow and deep) in the area of the RWS I Landfill flows generally to

the north and northeast. Groundwater flows toward the Kankakee River, which acts as a discharge boundary north of the site.

2.2.3 Monitoring Well Purging

To ensure that a representative volume of water was obtained during sampling, each monitoring well was purged before sampling. An adjustable rate peristaltic pump was used for purging all monitoring wells. The disposable tubing intake was placed at the mid-point of the saturated screen, based on the current water level measurement. The water level indicator was also placed in the well to monitor potential drawdown. At that time, the pump began purging the well at a minimum rate. The pumping rate never exceeded one (1) liter per minute. The same well purging procedures were then implemented to obtain well stability.

Once an acceptable flow rate had been established and maintained, pH, temperature, turbidity, and specific conductance were monitored and recorded every two (2) minutes using a calibrated multi-parameter water quality meter and a flow-thru cell. Purging continued until parameter stabilization occurred, as presented in the approved SAP.

Purge water was discharged directly to the ground surface, downgradient, and no closer than six (6) feet from any monitoring well.

2.2.4 Monitoring Well Sampling

Samples were collected in laboratory-provided, pre-preserved (if needed) bottleware. Because all down-well sampling equipment was disposable, a specific well sampling order was not required. All bottles were labeled with the unique sample number, time and date of the sample, and the identity of the sampling fraction. Groundwater and surface water samples were collected directly into the sample jars. Sampling was completed at the same flow rate as the well was purged. One (1) field duplicate sample was collected from a monitoring well at the site. All sample bottles were placed on ice in a cooler to maintain sample integrity. Once the sampling was completed, all sampling equipment was recovered and decontaminated (if needed). The well was then closed and secured.

2.2.5 Sampling Equipment Decontamination

All non-dedicated and non-disposable equipment was decontaminated after sample collection at each well and before reusing the equipment. This included decontaminating the water level indicator and water meters used to measure pH, turbidity, temperature, and specific conductance. The associated tubing was properly containerized for waste disposal at a Subtitle D licensed solid waste landfill.

2.2.6 Sample Preparation and Handling

All fieldwork was conducted in accordance with standard industry practices. To prevent cross-contamination, disposable, sterile, single-use sampling equipment was used to the extent possible, including latex gloves, plastic sheeting, and tubing. Field quality assurance/quality control (QA/QC) samples (i.e., field duplicates and equipment blanks) were collected and analyzed to ensure the effectiveness of the decontamination practices and evaluate overall precision. To ensure sample integrity, all samples were handled and shipped in accordance with strict chain-of-custody procedures, kept on ice, and cooled to an approximate temperature of 4ºC or less. The chain-of-custody form accounted for the samples from the time of collection to the time the samples were delivered to the laboratory.

2.2.7 Field Documentation

During the sampling event, the field staff completed field documentation. The following information was collected and documented on-site:

- Time and date each well was purged and sampled;
- Condition of well heads and locks (defects, if any, photographed);
- Weather conditions during sample collection;
- Depth, diameter, and volume of each well;
- Condition of purged water with regard to odor and turbidity;
- Temperature of groundwater;
- Static water level elevations and the location of the measuring mark on the well casing;
- Chain-of-custody number and sample IDs; and
- Time equipment was decontaminated at each well location.

2.3 Surface Water Sampling Activities

As part of the monitoring program, surface water quality in the Stahlbaum Ditch was sampled. Two (2) surface water samples were collected at sampling points SW-4 and SW-10 (Figure 2). Sampling location SW-4 is the downstream sampling point and sampling location SW-10 is the upstream point. All sample collection and handling activities were performed as described above.

2.4 Phase I and II Constituents

To comply with permit *Requirement E14*, all groundwater and surface water samples were collected and analyzed for Phase I and Phase II constituents. A list of Phase I and II constituents is provided in Table 3.

3.0 QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES AND LABORATORY METHODS

Laboratory analyses for samples collected during this project were performed by Pace Analytical Services, LLC at their laboratory in Indianapolis, Indiana. Analyses were performed in accordance with the QAP$_j$P. QA/QC measures were implemented to ensure that data meets quality requirements. Sampling data was quality controlled through the collection of QC samples (i.e., field duplicate and equipment blanks) and the calibration of field and laboratory equipment was completed in accordance with applicable Standard Operating Procedures (SOPs). In accordance with permit *Requirement E24*, laboratory QA/QC documentation from valid analyses of groundwater and surface water samples will be retained by NIPSCO for at least three (3) years.

4.0 ANALYTICAL RESULTS

4.1 Summary of Analytical Results

The sampling for this semi-annual event was conducted between September 3 and 11, 2025. The analytical results of the background groundwater locations (MW-1S, MW-1D, MW-10S, and MW-10D) and surface water location (SW-10) are summarized in Table 4. The results from the downgradient wells and downstream location are summarized in Table 5. All groundwater and surface water samples were analyzed for Phase I and II constituents, as defined in the renewal permit.

The laboratory report is included in Appendix B. The historic, per location, data are provided in tabular format in Appendix C.

4.2 Data Verification and Usability

The field samples were collected in accordance with the SAP and QAP$_j$P, and all data generated on the project were reviewed to ensure that applicable data quality requirements were met. The results of the data verification review indicate that all data met the project data quality requirements and are usable for the monitoring program.

4.3 Statistical Evaluation Results

The StEP, which was approved by the IDEM in October 2021, was applied to determine if any SSIs or SSLs occurred at compliance wells, the most recent sampling results (collected in September 2025) were compared to the calculated UTL value (Phase I monitoring) and the established GWPS (Phase II monitoring), respectively. Datasets for the shallow (S) and deep (D) compliance wells and surface water sample point were compared to the background datasets for shallow (S) and deep (D) wells and the surface water sample point, respectively. Appendix D provides the Statistical Evaluation Report for the September 2025 sampling event. The report

includes the results of the data screening, a comparison of the groundwater quality at each monitoring well and the surface water location, and the outcome of each statistical determination.

The results of the statistical determination are provided in Appendix D, Tables D-2 (Phase I monitoring) and D-4 (Phase II monitoring).

4.3.1 Phase I Groundwater Monitoring Program Results – September 2025

For the Phase I monitoring, SSIs were identified for two (2) or more Phase I constituents at the following downgradient sampling locations:

Shallow Wells

- MW-2S;
- MW-3Sa;
- MW-4S;
- MW-5S;
- MW-6S;
- MW-7S; and
- MW-14S.

Deep Wells

- MW-2D;
- MW-3D;
- MW-4D;
- MW-5D;
- MW-6D;
- MW-7D;
- MW-9D;
- MW-11D;
- MW-12D;
- MW-13D; and
- MW-14D.

Two (2) or more SSIs were identified in the surface water location (SW-4). In accordance with permit *Requirement E19a*, the IDEM will be notified of these findings within 14 days. SSIs will continue to be evaluated during subsequent sampling events, and a proposal for steps to address SSIs will be included in future reports, as needed.

4.3.2 Phase II Groundwater Monitoring Program Results – September 2025

For the Phase II monitoring, statistically significant levels (SSLs) over the GWPSs were identified for Phase II constituents at the following downgradient sampling locations:

Shallow Wells

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);
- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

Deep Wells

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water

- SW-4 (Total Molybdenum).

5.0 CORRECTIVE ACTION PROGRAM UPDATE

In accordance with permit *Requirement E21*, NIPSCO implemented a corrective action program as required under 329 IAC 10-29-9 and submitted a program plan in May 2023. Below are updated preliminary plume characterization discussions, including isoconcentration maps, estimates of the mass of the contaminants released, and evaluations of plume stability. Sections 5.1.1 through 5.1.3 provide the methods used to characterize each plume and evaluate the stability, followed by constituent-specific discussions.

5.1 Plume Characterization and Evaluation of Stability

5.1.1 Isoconcentration Maps

To support preliminary plume characterization, isoconcentration maps of all constituents that exceed their corresponding GWPS are provided in Appendix E.

5.1.2 Estimates of the Mass of the Contaminants Released

To develop an approximation of the mass of each contaminant in groundwater, the isoconcentration maps (Appendix E) were used to calculate the estimated square footage for the plume area at each contour interval. The area was multiplied by the average saturated thickness of the respective aquifer (9.91 feet for the shallow aquifer and 25.63 feet for the deep aquifer), which provided the total volume of the aquifer in each area in cubic feet. The volume of groundwater was then calculated by multiplying the aquifer volume by the estimated porosity of the aquifer (30%)[1]; this value was then converted to liters.

To estimate the mass of each contaminant, the total volume of groundwater in each area (liters) was then multiplied by the assigned concentration in milligrams per liter. The resulting value was then converted to tonnage; the approximation of the mass of each contaminant in groundwater is provided in the sections below. As this information continues to be calculated in future reports, the tonnage values will be used to evaluate the stability of each plume.

The estimates of the mass of contaminants released are provided in Appendix F.

5.1.3 Evaluation of Plume Stability Using Statistical Analyses

To evaluate plume stability, statistical analyses were completed for each well where constituent concentrations were confirmed to exceed a GWPS in September 2025 using a Linear Regression and Sen's Slope Estimator method (with a Mann-Kendall Analysis). The results of the statistical evaluations are presented in Appendix G. The results of statistical analyses will be updated over time. Further rounds of sampling are required to evaluate these results and to perform other complementary statistical analyses.

5.1.4 Plume Characterization and Stability Evaluation - Constituent-Specific Discussions

5.1.4.1 Cobalt – Shallow Aquifer

Cobalt exceedances were observed in wells MW-6S, MW-13S, and MW-14S (Figure E-1). The Cobalt exceedances extend in the general direction of groundwater flow to well MW-6S. Based on these results, the RWS I Landfill appears to be the source of Cobalt in the shallow aquifer.

The calculated mass of Cobalt for September 2025 was 0.0129 metric tons (Table F-1). Although no significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Cobalt exceedances (MW-6S, MW-13S, and MW-14S), the downgradient extent of Cobalt has not been defined in that area (Figure E-1). One (1) additional downgradient shallow well is proposed to define the extent of Cobalt in the shallow aquifer. Progress updates will be included in future groundwater monitoring reports.

[1] Golder Associates, Groundwater Monitoring Program Implementation Manual, October 2017

5.1.4.2 Arsenic – Deep Aquifer

An Arsenic exceedance was observed in well MW-7D (Figure E-2). The calculated mass of Arsenic for September 2025 was 0.0047 metric tons (Table F-2).

Exceedances were noted in this well in September 2022 and March 2023 and were discussed in the Corrective Action Program Plan dated May 2023. Before this September 2025 sampling event, exceedances have not been detected during any sampling event since March 2023. Similar to the September 2022 and March 2023 sampling events and discussed in the plan, the September 2025 Arsenic result slightly exceeds the GWPS in well MW-7D only, which is located further downgradient from the RWS I Landfill than other wells where Arsenic results did not exceed the GWPS (MW-3D, MW-4D, MW-11D, and MW-13D). Additionally, no significant trends were observed in the Linear Regression and Sen's Slope Estimator for the well with an Arsenic exceedance (MW-7D). Based on these results, the RWS I Landfill does not appear to be the source of the Arsenic exceedance in the deep aquifer.

Also, as discussed in Section 4 of the Corrective Action Program Plan, Arsenic concentrations in groundwater are significantly impacted by changes in oxidation-reduction conditions in the environment and also by the presence of extremely low levels of sediment in the groundwater samples. Therefore, the Arsenic exceedance at well MW-7D could be related to these other factors and not to the RWS I Landfill.

5.1.4.3 Boron – Deep Aquifer

A Boron exceedance was observed in well MW-5D (Figure E-3). As discussed in the Corrective Action Program Plan and based on the recent results, the Boron exceedances may actually be observed because the background data does not include enough data to support a robust statistical evaluation. Further rounds of groundwater sampling will be performed to better evaluate Boron exceedances. Additionally, the downgradient extent of Boron has been defined in that area (Figure E-3), and initial trend tests indicate that there is not an increasing trend of the concentrations of Boron in well MW-5D.

The calculated mass of Boron for September 2025 was 44.63 metric tons (Table F-3).

5.1.4.4 Lithium – Deep Aquifer

In all previous sampling events, Lithium only exceeded the GWPS in the deep aquifer and was limited to well MW-3D, which is in the immediate vicinity of the RWS I Landfill; Lithium was not detected in wells further downgradient (MW-4D, MW-6D, MW-7D, MW-11D, MW-12D, MW-13D, and MW-14D). However, in September 2025, Lithium was detected in well MW-9D; as a result, the downgradient extent of Lithium has not been defined in that area (Figure E-4). Therefore, updated and additional information regarding this constituent will be included in an addendum of the Corrective Action Program Plan.

The calculated mass of Lithium for September 2025 was 0.1229 metric tons (Table F-4). No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Lithium exceedances (MW-3D, MW-5D, and MW-9D).

5.1.4.5 Molybdenum – Shallow Aquifer, Deep Aquifer, and Surface Water

In the shallow aquifer, Molybdenum only exceeded the GWPS in one (1) well in September 2025 (MW-4S) (Figure E-5). Total Molybdenum was not detected above the GWPS in further downgradient wells (MW-3Sa, MW-6S, MW-7S, MW-11S, and MW-12S). The exceedances of Molybdenum in the deep aquifer are generally limited to wells in the immediate vicinity of the RWS I Landfill (MW-2D, MW-3D, MW-4D, MW-5D, and MW-13D); Molybdenum is not detected above the GWPS in wells further downgradient (MW-6D, MW-7D, MW-11D, MW-12D, and MW-14D) (Figure E-6). In surface water, Molybdenum exceeded the GWPS at the sampling location SW-4 (Figure 2); however, no exceedances were noted prior to this sampling event.

The calculated mass of Molybdenum for September 2025 was 6.25 metric tons in the shallow and aquifers (Table F-5). Note that this approximate mass calculation for Molybdenum is driven primarily by the mass calculated in the deep aquifer, which exhibits the greatest Molybdenum concentration at the site.

No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the wells with Molybdenum exceedances in surface water (SW-4), the shallow aquifer (MW-4S), and select wells in the deep aquifer (MW-2D, MW-4D, and MW-13D). In the deep aquifer, a significant increasing trend using a Linear Regression was noted at wells MW-3D and MW-5D, which are in the immediate vicinity of the RWS I Landfill; however, the trends were not significant using Sen's Slope Estimator.

Based on these results, the RWS I Landfill appears to be the source of Molybdenum in this area. An updated evaluation regarding this constituent will be included in an addendum of the Corrective Action Program Plan, based on the exceedances in the shallow aquifer and surface water.

5.1.4.6 Combined Radium 226/228 – Deep Aquifer

Combined Radium 226/228 only exceeded the GWPS in one (1) well in September 2025 (MW-3D) (Figure E-7). Combined Radium 226/228 was not detected above the GWPS in wells further downgradient (MW-6D, MW-7D, and MW-11D). As the combined Radium 226/228 result is a radioactivity level and not a mass per unit volume, a tonnage for this constituent cannot be calculated. No significant trends were observed in the Linear Regression and Sen's Slope Estimator for the well MW-3D, which had an Arsenic exceedance.

Based on these results, the Combined Radium 226/228 plume appears to be stable, suggesting that it is greatly retarded in its transport or cannot be transported significant distances in the deep

aquifer. Further evaluation of the transport potential of Combined Radium 226/228 in the deep aquifer will be conducted to better identify processes impacting its migration in groundwater at the site.

6.0 CONCLUSIONS

In accordance with permit *Requirement E19a,* the IDEM will be notified of the Phase I and II monitoring findings within 14 days. Additionally, in accordance with permit *Requirement E19c,* a consultation with the IDEM Geology Section will be requested within 30 days after the submission of this report to discuss the current site conditions, specifically regarding two (2) constituents, Lithium and Molybdenum.

The Phase I and II Groundwater Monitoring Programs will continue at the site, per Permit *Requirement E14.* All reporting required under this permit requirement will continue to be completed.

In addition to meeting permit requirements, data from the programs will also be used to support the ongoing evaluations discussed in the Corrective Action Program Plan, which was submitted to IDEM in May 2023 (pending IDEM approval) and an addendum to the Corrective Action Program Plan.

TABLES

TABLE 1
GROUNDWATER MONITORING SYSTEM

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Monitoring Well Sampling Points
MW-1S (Background) MW-1D (Background)
MW-2S MW-2D
MW-3Sa MW-3D
MW-4S MW-4D
MW-5S MW-5D
MW-6S MW-6D
MW-7S MW-7D
MW-8S MW-8D
MW-9S MW-9D
MW-10S (Background) MW-10D (Background)
MW-11S MW-11D
MW-12S MW-12D
MW-13S MW-13D
MW-14S MW-14D
Surface Water Sampling Points
SW-4 SW-10 (Background)

TABLE 2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
SEPTEMBER 2025

RM Schahfer Generating Station RWS I Landfill
Jasper County, Indiana

Sample Location ID	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-1S	668.81	9.87	658.94
MW-1D	668.86	9.89	658.97
MW-2S	664.10	5.51	658.59
MW-2D	663.73	5.14	658.59
MW-3Sa	667.58	10.18	657.40
MW-3D	667.58	10.30	657.28
MW-4S	666.90	9.22	657.68
MW-4D	666.56	8.84	657.72
MW-5S	664.29	6.04	658.25
MW-5D	664.37	6.07	658.30
MW-6S	664.61	9.92	654.69
MW-6D	664.64	10.27	654.37
MW-7S	664.80	8.39	656.41
MW-7D	664.72	8.42	656.30
MW-8S	663.75	8.85	654.90
MW-8D	663.52	8.64	654.88
MW-9S	662.42	7.85	654.57
MW-9D	662.68	7.95	654.73
MW-10S	662.53	3.86	658.67
MW-10D	663.18	4.48	658.70
MW-11S	663.25	5.95	657.30
MW-11D	663.57	6.32	657.25
MW-12S	663.48	6.02	657.46
MW-12D	663.60	6.23	657.37
MW-13S	664.67	7.01	657.66
MW-13D	664.80	7.09	657.71
MW-14S	665.24	7.97	657.27
MW-14D	665.41	8.15	657.26
SW-4	658.25	3.84	654.41
SW-10	656.91	1.74	655.17

TABLE 3
PHASE I AND II CONSTITUENT LISTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

PHASE I CONSTITUENTS
Field pH
Field Specific Conductance
Total Boron
Total Calcium
Chloride
Fluoride
Sulfate
Total Dissolved Solids
PHASE II CONSTITUENTS
Total Antimony
Total Arsenic
Total Barium
Total Beryllium
Total Boron
Total Cadmium
Total Chromium
Total Cobalt
Fluoride
Total Lead
Total Lithium
Total Mercury
Total Molybdenum
Total Selenium
Total Thallium
Radium 226 and 228 Combined

TABLE 4
SUMMARY OF BACKGROUND ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-1S	MW-1D	MW-10S	MW-10D	SW-10
		AR-AQMW01S-60001	AR-AQMW01D-60001	AR-AQMW010S-60001	AR-AQMW010D-60001	AR-AQMW010-20001
Phase I Constituents						
Field pH	s.u.	6.54	7.09	6.27	7.27	6.53
Field Specific Conductance	µS/cm	320	453	524	398	427
Boron, Total	mg/L	0.18	6.9	0.044	0.059	0.047
Calcium, Total	mg/L	40.3	77.1	71.7	60.8	61.5
Chloride	mg/L	4.4	13.6	34.5	18.8	7.8
Fluoride	mg/L	<0.1	0.27	<0.1	0.13	0.17
Sulfate	mg/L	35.6	51.8	63.1	27.2	58.7
Total Dissolved Solids	mg/L	165	351	328	253	264
Phase II Constituents						
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0014
Barium, Total	mg/L	0.011	0.031	0.017	0.026	0.063
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.18	6.9	0.044	0.059	0.047
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.001	<0.001	<0.001
Fluoride	mg/L	<0.1	0.27	<0.1	0.13	0.17
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.022	0.0018	0.0011	<0.001	0.0066
Selenium, Total	mg/L	0.0054	<0.001	0.0012	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	0.504	0.906	0.804	0.891	1.23

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRADIENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-2S	MW-2D	MW-3Sa	MW-3D	MW-4S	MW-4D
		AR-AQMW02S-60001	AR-AQMW02D-60001	AR-AQMW03Sa-60001	AR-AQMW03D-60001	AR-AQMW04S-60001	AR-AQMW04D-60001
Phase I Constituents							
Field pH	s.u.	7.18	6.65	7.36	6.86	6.98	6.96
Field Specific Conductance	µS/cm	963	1480	1420	17700	1130	2180
Boron, Total	mg/L	3.3	10.5	1.6	12	2	5.2
Calcium, Total	mg/L	137	68.6	134	284	108	235
Chloride	mg/L	3.4	30	2	729	11.1	110
Fluoride	mg/L	0.43	1.1	0.26	<0.1	0.27	0.26
Sulfate	mg/L	332	780	233	12500	363	1780
Total Dissolved Solids	mg/L	627	1500	572	20100	747	2970
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	0.0047	<0.001	0.0073	0.0021	0.0054	<0.001
Barium, Total	mg/L	0.098	0.039	0.078	0.029	0.036	0.044
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	3.3	10.5	1.6	12	2	5.2
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0015	<0.001	<0.001	<0.001
Fluoride	mg/L	0.43	1.1	0.26	<0.1	0.27	0.26
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	0.0248	<0.02	0.0659	<0.02	0.0204
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.026	1.3	0.026	0.32	0.13	1.5
Selenium, Total	mg/L	<0.001	<0.001	0.0018	0.0032	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.82	1.36	1.89	5.16	1.58	3.17

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRADIENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-5S	MW-5D	MW-6S	MW-6D	MW-7S	MW-7D
		AR-AQMW05S-60001	AR-AQMW05D-60001	AR-AQMW06S-60001	AR-AQMW06D-60001	AR-AQMW07S-60001	AR-AQMW07D-60001
Phase I Constituents							
Field pH	s.u.	6.65	6.09	5.2	5.02	5.78	6.05
Field Specific Conductance	µS/cm	1130	3130	426	392	684	601
Boron, Total	mg/L	2.5	13.9	0.045	0.022	0.034	0.036
Calcium, Total	mg/L	197	457	39.3	64.5	88.4	84.3
Chloride	mg/L	7.2	683	13.6	11.1	4.9	19
Fluoride	mg/L	0.3	<0.1	<0.1	0.26	0.24	0.16
Sulfate	mg/L	461	4850	111	78.5	221	95.7
Total Dissolved Solids	mg/L	908	8100	221	275	466	378
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0012	<0.001
Arsenic, Total	mg/L	0.004	<0.001	<0.001	0.0018	0.0015	0.011
Barium, Total	mg/L	0.22	0.067	0.033	0.028	0.092	0.039
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	2.5	13.9	0.045	0.022	0.034	0.036
Cadmium, Total	mg/L	<0.0002	<0.0002	0.00039	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0096	<0.001	0.0024	<0.001
Fluoride	mg/L	0.3	<0.1	<0.1	0.26	0.24	0.16
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	0.0405	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.037	2.6	<0.001	0.0048	0.0038	0.0043
Selenium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	2.33	4.93	1.07	0.802	0.498	1.06

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

TABLE 5
SUMMARY OF DOWNGRADIENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-8S	MW-8D	MW-9S	MW-9D	MW-11S	MW-11D
		AR-AQMW08S-60001	AR-AQMW08D-60001	AR-AQMW09S-60001	AR-AQMW09D-60001	AR-AQMW011S-60001	AR-AQMW011D-60001
Phase I Constituents							
Field pH	s.u.	7.35	7.14	6.9	6.5	6.87	6.31
Field Specific Conductance	µS/cm	220	357	417	500	863	2210
Boron, Total	mg/L	0.029	0.37	0.025	1.6	0.067	0.73
Calcium, Total	mg/L	28.5	49.8	54.6	44	69.9	111
Chloride	mg/L	5.3	7.7	16.3	17.8	9.7	74
Fluoride	mg/L	<0.1	0.17	0.41	0.41	0.27	0.13
Sulfate	mg/L	28.5	26.5	45.4	1.8	46.8	1060
Total Dissolved Solids	mg/L	130	229	279	318	339	1870
Phase II Constituents							
Antimony, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium, Total	mg/L	0.0042	0.04	0.049	0.047	0.053	0.052
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.029	0.37	0.025	1.6	0.067	0.73
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0027	<0.001	0.0012	<0.001
Fluoride	mg/L	<0.1	0.17	0.41	0.41	0.27	0.13
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	0.0438	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	<0.001	0.0024	0.003	0.0024	0.0024	0.0044
Selenium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.25	0.7	0.796	1.16	1.15	1.4

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

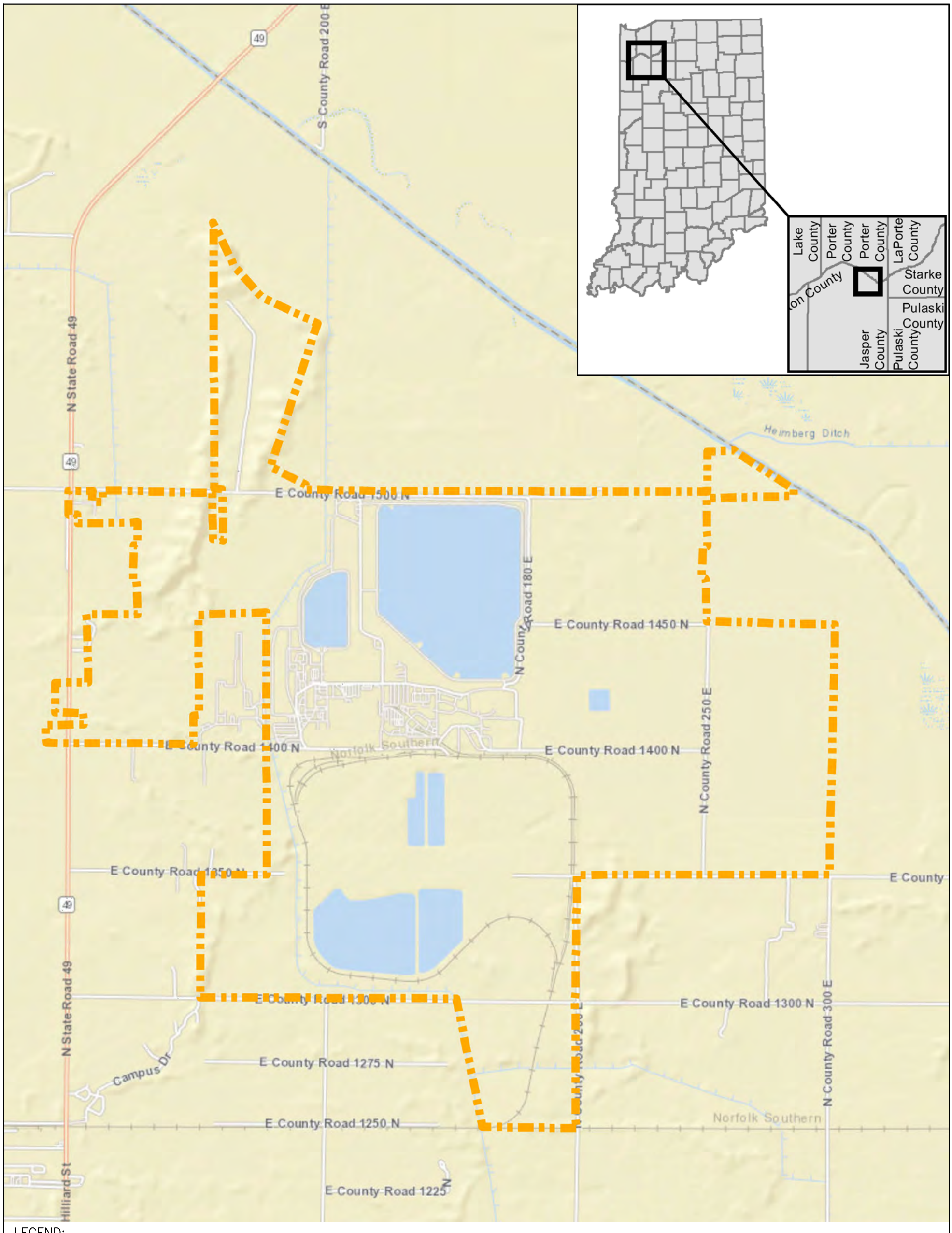
TABLE 5
SUMMARY OF DOWNGRADIENT/DOWNSTREAM ANALYTICAL RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Constituent	Units	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	SW-4
		AR-AQMW012S-60001	AR-AQMW012D-60001	AR-AQMW013S-60001	AR-AQMW013D-60001	AR-AQMW014S-60001	AR-AQMW014D-60001	AR-AQSW004-20001
Phase I Constituents								
Field pH	s.u.	6.91	6.24	6.4	5.72	5.46	5.56	6.71
Field Specific Conductance	µS/cm	520	2780	349	1160	477	550	887
Boron, Total	mg/L	0.11	0.96	0.052	1.1	0.032	0.037	3.3
Calcium, Total	mg/L	50.6	135	56.7	52.4	40.7	86.8	72.5
Chloride	mg/L	11.9	110	14.5	80.4	14.5	15.6	26.8
Fluoride	mg/L	0.44	0.2	0.24	0.29	0.19	0.17	0.52
Sulfate	mg/L	40.8	1470	75.7	868	75.5	81.9	480
Total Dissolved Solids	mg/L	237	2480	283	1600	245	364	890
Phase II Constituents								
Antimony, Total	mg/L	<0.001	<0.001	<0.001	0.0045	<0.001	<0.001	<0.001
Arsenic, Total	mg/L	0.0012	<0.001	0.0033	<0.001	0.0011	0.0012	0.0016
Barium, Total	mg/L	0.055	0.028	0.072	0.045	0.1	0.028	0.038
Beryllium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Boron, Total	mg/L	0.11	0.96	0.052	1.1	0.032	0.037	3.3
Cadmium, Total	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.00021	<0.0002	<0.0002
Chromium, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt, Total	mg/L	<0.001	<0.001	0.0088	<0.001	0.036	<0.001	<0.001
Fluoride	mg/L	0.44	0.2	0.24	0.29	0.19	0.17	0.52
Lead, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium, Total	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.017	0.031	0.0082	0.16	0.0016	0.0091	0.31
Selenium, Total	mg/L	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium, Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Radium 226 and 228 (Combined)	pCi/L	1.16	0.578	0.799	0.758	1.54	0.496	1.63

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

FIGURES



LEGEND:

APPROXIMATE PROPERTY LINE

2,000' 0' 2,000' 3,000'

SCALE: 1"= 2,000'

DRAWN BY	
CHECKED BY	
JOB NO.	2023100-SCH-NIPSCO
DWG FILE	2023100_NIPSCO_LocationMap [SiteLocation]
DRAWING SCALE	AS SHOWN

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SITE LOCATION MAP

DRAWING NAME: FIGURE 1

REV. 0

Plot: 05/01/2023 13:25 :\2023062-067 - NiSource - Schahfer 2023 GW Monitoring\CAD\2023GW\2023100_NIPSCO_LocationMap.dwg [SiteLocation]



LEGEND:

- AGES SHALLOW MONITORING WELL
- AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	
CHECKED BY	
JOB NO.	2023100-SCH-NIPSCO
DWG FILE	2023100_NIPSCO_LocationMap [WellLocation]
DRAWING SCALE	AS SHOWN

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
GROUNDWATER MONITORING LOCATION MAP

DRAWING NAME	REV.
FIGURE 2	0

Plot: 05/01/2023 13:29 :\2023062-067 - NiSource - Schahfer 2023 GW Monitoring\CAD\2023GW\2023100_NIPSCO_LocationMap.dwg [WellLocation]



LEGEND:

- AGES SHALLOW MONITORING WELL
- AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE
- GROUNDWATER ELEVATION CONTOURS (FEET)

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_GW_Sept2025 [IDEMGWShallow]
DRAWING SCALE	AS SHOWN

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Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
GROUNDWATER FLOW MAP – SHALLOW AQUIFER
SEPTEMBER 2025

DRAWING NAME: FIGURE 3

REV. 0

Plot: 10/16/2025 15:50 :_PROGRAMS – NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_GW_Sept2025.dwg [IDEM_GWShallow]



LEGEND:

- AGES SHALLOW MONITORING WELL
- AGES DEEP MONITORING WELL
- SURFACE WATER SAMPLE
- GROUNDWATER ELEVATION CONTOURS (FEET)

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_GW_Sept2025 [IDEMGWDeep]
DRAWING SCALE	AS SHOWN

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
GROUNDWATER FLOW MAP – DEEP AQUIFER
SEPTEMBER 2025

DRAWING NAME: FIGURE 4

REV. 0

Plot: 10/16/2025 17:57 :_PROGRAMS – NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_GW_Sept2025.dwg [IDEM_GWDeep]

APPENDIX A

IDEM EMAIL CORRESPONDENCE

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Brian C. Rockensuess
Commissioner

August 29, 2024

VIA EMAIL jloewe@nisource.com
Mr. Jeff Loewe
Manager, Environmental Remediation
NiSource Corp.
801 E 86th Avenue
Merrillville, IN 46410

Re: *Phase I and II Groundwater Monitoring Event*
Dated May 3, 2024
VFC # 83634648
RM Schahfer Generating Station
RWS I Landfill
Jasper County
SW Program ID 37-01

Dear Mr. Loewe:

On May 3, 2024, we received the *Phase I and II Groundwater Monitoring Event* (Report) from you on behalf of the facility. The following comments are the result of our review.

The Report describes a groundwater monitoring event conducted by AGES on March 5, 2024, at the RM Schahfer Generating Station RWS I. Additionally, the Report generally complies with the groundwater monitoring requirements listed in the Permit Renewal dated May 27, 2020 (VFC # 82975469), 40 CFR 257, the Sampling and Analysis Plan (SAP) dated July 22, 2020 (VFC # 83014335), and the Statistical Evaluation Plan (StEP) dated August 16, 2021 (VFC # 83202190).

The facility needs to continue with its semiannual groundwater monitoring program for the RWS I Landfill, as detailed in the Permit Renewal, SAP, and StEP. Additionally, we have further comments.

The facility analyzed all groundwater samples for Phase I and Phase II parameters listed in the Permit Renewal. The Report identifies statistically significant increases (SSIs) for two or more Phase I monitoring parameters at multiple shallow and deep groundwater monitoring wells and surface water location SW-4. The Report identifies groundwater protection standard (GWPS) exceedances for multiple Phase II parameters including Total Cobalt, Total Boron, Total Molybdenum, Total Lithium, and Radium 226 and 228 Combined at multiple shallow and deep wells.

As summarized above, the facility determined GWPS exceedances at one or more downgradient groundwater monitoring wells. Therefore, NIPSCO needs to continue its assessment monitoring program.

Please note, if NIPSCO determines GWPS exceedances at the farthest downgradient groundwater monitoring well location(s), then NIPSCO must propose additional monitoring locations (groundwater, surface water, etc.) to continue the investigation and characterization of the nature and extent (N&E) of any GWPS exceedances.

Additionally, NIPSCO needs to continue to incorporate the following into the future investigation and characterization of the N&E of GWPS exceedance(s) and into future groundwater monitoring reports:

- Include a specific section in the reports that discusses the status of your assessment monitoring program, including progress on your assessment of corrective measures and/or remedy selection.

- Include Mann-Kendal statistical and Sen's Slope trend analyses at a 95% level of confidence for all constituents that exceed their corresponding GWPS.

- Include isoconcentration maps for all constituents that exceed their corresponding GWPS.

- Include a specific section in the reports that discusses the facility's plume characterization approach, including information on the source of the contamination, contaminant release mechanisms, estimating the mass of the contaminants released, defining the overall geometry of the contaminant plume (the vertical and lateral dispersion), and an evaluation of the N&E of GWPS exceedances. Please note that including a discussion on the presence of commingling plumes from multiple source areas (e.g., Multi-Cell Unit, Waste Disposal Area, etc…) appears appropriate.

- Develop sampling locations and methods to determine groundwater quality beyond applicable downgradient monitoring well locations and potential impacts to nearby surface water bodies including Stahlbaum Ditch and the Kankakee River, as these groundwater/surface water quality data are necessary to assist in assessing the extent and effects of the plume. These additional monitoring locations will assist with N&E determinations and provide additional information on plume geometry, when applicable.

NIPSCO needs to work with IDEM to characterize the N&E of groundwater contamination as necessary. The surface water aspect (if applicable) must be included in your N&E investigation of the GWPS exceedances and must be implemented in a manner that is representative of nearby surface water bodies including Stahlbaum Ditch and the Kankakee River.

Please note that per 40 CFR 257.97(b)(1) and (4), “Remedies must: [...] Be protective of human health and the environment;” and “Remove from the environment as much of the contaminated material that was released from the CCR unit as is feasible, taking into account factors such as avoiding inappropriate disturbance of sensitive ecosystems[.]” It is unclear how NIPSCO can demonstrate compliance with these standards without an N&E investigation that covers “as much of the contaminated material that was released from the CCR unit as is feasible.” Unless it is demonstrably unfeasible, the N&E investigation needs to include representative sampling of surface water that may be impacted.

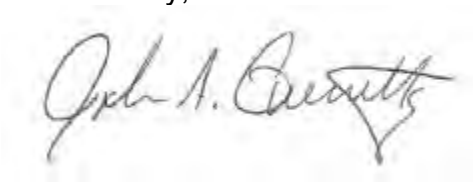
Additionally, please note that if NIPSCO can demonstrate that the concentrations of GWPS exceedance(s) at the outermost wells are below the Indiana (surface) Water Quality Standards (SWQS) described in the second bullet below, then surface water sampling is not necessary for that constituent since surface water will already have met the SWQS. However, if NIPSCO determines that the concentrations of GWPS exceedance(s) are at or above the SWQS, then NIPSCO needs to submit a surface water monitoring plan that adequately addresses the following recommendations:

- As specified in the *Criteria for all ground water* under 327 IAC 2-11-5(3), “For waters of the state, surface water quality standards shall be met in the surface water at the ground water-surface water interface.” Therefore, surface water sampling locations need to include baseflow and possibly pore water sampling locations at the confluence of the groundwater discharge/recharge boundary of the lake/river, near groundwater monitoring locations that have determined GWPS exceedances. Based on these criteria and when and where applicable, NIPSCO will likely need to base surface water and/or pore water sampling locations on the screened depth interval of GWPS exceedances and groundwater flow vectors, including both vertical and horizontal gradients. The resulting data need to be representative of the nearby surface water and assist in determinations made from the N&E of GWPS exceedances, and SWQS exceedances (described below).

- NIPSCO needs to evaluate the surface water sampling results against SWQS when and where GWPS exceedances have reached or are entering the river system. Indiana Water Quality Standards (327 IAC 2 (https://www.in.gov/idem/cleanwater/resources/water-quality-standards/)) (SWQS) exist by rule and take precedence over guidance. Based on the location of the RM Schahfer Generating Station and following 327 IAC 2, NIPSCO needs to utilize the water quality criteria applicable outside the Great Lakes System under 327 IAC 2-1-6, “Minimum surface water quality criteria.” These criteria include the numeric criteria specifically identified in the section and for the substances for which numeric criteria are not specified, they include the criteria calculated pursuant to the procedures contained in 327 IAC 2-1-8.2 through 8.6. After the facility evaluates sampling results against the SWQS, we recommend comparing the results with the screening levels in the EPA *Region 4 Ecological Risk Assessment Supplemental Guidance* updated in March 2018 (https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance).

Thank you for your attention to this matter. If you have questions, please contact Mr. Marty Harmless of my staff at mharmles@idem.IN.gov or call (317) 234-0597.

Sincerely,



John A. Guerrettaz, LPG
Chief, Geology Section
Permits Branch
Office of Land Quality

cc: Jasper County Health Department
IDEM Northern Regional Office
Ms. Bethany Flaherty, AGES
Mr. Tom Kreke, Solid Waste Permits Section, OLQ, IDEM
Mr. Adam Weinzapfel, Solid Waste Permits Section, OLQ, IDEM
Mr. Troy Weaver, Geology Section, OLQ, IDEM

Bethany Flaherty

From: HARMLESS, MARTY <MHARMLES@idem.IN.gov>
Sent: Wednesday, December 21, 2022 12:28 PM
To: Loewe \ Jeff
Cc: Bethany Flaherty; Robert King
Subject: Effective Assessment Monitoring

Bethany, as discussed at today's meeting, these are our standard recommendations for implementing an effective Assessment Monitoring Program. Please note the surface water comments are only applicable when groundwater exceedances reach surface water bodies.

To assist in determining the nature and extent (N&E) of the groundwater protection standard (GWPS) exceedances and in evaluating the effectiveness of the assessment monitoring program at the landfill, the facility needs to incorporate the following items into future groundwater monitoring reports:

- Include a specific section in the reports that discusses the status of your assessment monitoring program, including progress on your assessment of corrective measures.
- Include Mann-Kendal statistical and Sen's Slope trend analyses of all constituents that exceed their corresponding GWPS.
- Include isoconcentration maps of all constituents that exceed their corresponding GWPS.
- Include a specific section in the reports that discusses the facility's plume characterization approach, including information on the source of the contamination, contaminant release mechanisms, estimating the mass of the contaminants released, defining the overall geometry of the contaminant plume (the vertical and lateral dispersion), and an evaluation of the N&E of GWPS exceedances. Please note that including a discussion on the presence of commingling plumes from multiple source areas (e.g., NAPS, RWS II Landfill, East Ash Pond System, and Cooling Lake) is appropriate.
- Develop sampling locations and methods to determine groundwater quality beyond the Army Corps of Engineers' levee and potential impacts to the XXXX River, as these groundwater/surface water quality data are necessary to assist in assessing the extent and effects of the plume. These additional monitoring locations will assist with N&E determinations and provide additional information on plume geometry.

The facility needs to work with IDEM to characterize the N&E of the groundwater contamination, as necessary. The surface water aspect (if applicable) must be included in your N&E investigation of the GWPS exceedances and must be implemented in a manner that is representative of the xxxx River.

Marty Harmless
Geologist 1
Geology Section - Permits Branch
Office of Land Quality
317-234-0597 • mharmles@idem.IN.gov

Indiana Department of Environmental Management
100 N. Senate Avenue, Indianapolis, IN 46204

https://www.in.gov/idem/waste/



APPENDIX B

LABORATORY REPORT

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 06, 2025

Ms. Bethany Flaherty
AGES, Inc
2402 Hookstown Grade Road
Suite 200
Clinton, PA 15026

RE: Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Dear Ms. Flaherty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 05, 2025 and September 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Travis Sitko, Applied Geology and Environmental Science, Inc

REPORT OF LABORATORY ANALYSIS
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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Arizona Certification #: AZ0734
California Certification #: 2950
Connecticut Certification #: PH-0694
Florida/TNI Certification #: E87683
Guam Certification
Idaho Certification
Indiana Certification
Kansas Certification #: E-10358
KY WW Permit #: KY0098221
Louisiana DHH/TNI Certification #: LA010
Maine Certification #: 2023021
Massachusetts Certification #: M-PA1457
Missouri Certification #: 235
Nebraska Certification #: NE-OS-29-14
New Hampshire/TNI Certification #: 297622
New Mexico Certification #: PA01457
North Carolina Certification #: 42706
Ohio EPA Rad Approval: #41249
Pennsylvania/TNI Certification #: 65-00282
Rhode Island Certification #: 65-00282
Tennessee Certification #: TN02867
Utah/TNI Certification #: PA014572223-14
Vermont Dept. of Health: ID# VT-0282
Virginia/VELAP Certification #: 460198
West Virginia DEP Certification #: 143
Wisconsin Approve List for Rad
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arkansas Certification
Colorado Certification #: PA01547
EPA Region 4 DW Rad
Georgia Certification #: C040
Hawaii Certification
Illinois Certification
Iowa Certification #: 391
Kentucky Certification #: KY90133
KY WW Permit #: KY0000221
Louisiana DEQ/TNI Certification #: 04086
Maryland Certification #: 308
Michigan/PADEP Certification #: 9991
Montana Certification #: Cert0082
Nevada Certification #: PA014572023-03
New Jersey/TNI Certification #: PA051
New York/TNI Certification #: 10888
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002-015
Puerto Rico Certification #: PA01457
South Dakota Certification
Texas/TNI Certification #: T104704188-22-18
USDA Soil Permit #: 525-23-67-77263
Virgin Island/PADEP Certification
Washington Certification #: C868
West Virginia DHHR Certification #: 9964C

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Indiana Drinking Water Laboratory #: C-49-06
Kentucky UST Agency Interest #: 80226
Louisiana Certification #: 04076
Oklahoma Laboratory #: 9204
Washington Dept of Ecology #: C1081
USDA Foreign Soil Permit #: 525-23-13-23119
Illinois Accreditation #: 200074
Kansas/TNI Certification #: E-10177
Kentucky WW Laboratory ID #: 98019
Michigan Drinking Water Laboratory #9050
Texas Certification #: T104704355
Wisconsin Laboratory #: 999788130
USDA Compliance Agreement #: IN-SL-22-001

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Date: 10/06/2025 04:14 PM

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50411767001	**AR-AQMW010D-60001**	Water	09/03/25 08:00	09/05/25 08:45
50411767002	**AR-AQMW010S-60001**	Water	09/03/25 09:02	09/05/25 08:45
50411767003	**AR-AQSW010-20001**	Water	09/03/25 09:46	09/05/25 08:45
50411767004	**AR-AQMW06D-60001**	Water	09/03/25 11:20	09/05/25 08:45
50411767005	**AR-AQMW06S-60001**	Water	09/03/25 10:42	09/05/25 08:45
50411767006	**AR-AQMW07D-60001**	Water	09/04/25 09:30	09/05/25 08:45
50411767007	**AR-AQMW07S-60001**	Water	09/04/25 09:25	09/05/25 08:45
50411767008	**AR-AQMW011D-60001**	Water	09/04/25 12:00	09/05/25 08:45
50411767009	**AR-AQMW011S-60001**	Water	09/04/25 12:55	09/05/25 08:45
50411767010	**AR-AQMW012D-60001**	Water	09/04/25 10:20	09/05/25 08:45
50411767011	**AR-AQMW012S-60001**	Water	09/04/25 10:50	09/05/25 08:45
50411767012	**AR-AQMW013D-60001**	Water	09/03/25 14:50	09/05/25 08:45
50411767013	**AR-AQMW013S-60001**	Water	09/03/25 15:25	09/05/25 08:45
50411767014	**AR-AQMW014D-60001**	Water	09/03/25 13:02	09/05/25 08:45
50411767015	**AR-AQMW014S-60001**	Water	09/03/25 13:42	09/05/25 08:45
50411767016	**Duplicate**	Water	09/03/25 08:00	09/05/25 08:45
50412306001	**AR-AQMW01D-60001**	Water	09/10/25 12:35	09/11/25 08:45
50412306002	**AR-AQMW01S-60001**	Water	09/10/25 13:10	09/11/25 08:45
50412306003	**AR-AQMW02D-60001**	Water	09/09/25 10:00	09/11/25 08:45
50412306004	**AR-AQMW02S-60001**	Water	09/09/25 10:36	09/11/25 08:45
50412306005	**AR-AQMW03D-60001**	Water	09/09/25 14:10	09/11/25 08:45
50412306006	**AR-AQMW03Sa-60001**	Water	09/09/25 14:35	09/11/25 08:45
50412306007	**AR-AQMW04D-60001**	Water	09/10/25 09:50	09/11/25 08:45
50412306008	**AR-AQMW04S-60001**	Water	09/10/25 10:25	09/11/25 08:45
50412306009	**AR-AQMW05D-60001**	Water	09/10/25 11:45	09/11/25 08:45
50412306010	**AR-AQMW05S-60001**	Water	09/10/25 11:10	09/11/25 08:45
50412306011	**AR-AQSW004-20001**	Water	09/09/25 15:20	09/11/25 08:45
50412313001	**AR-AQMW08D-60001**	Water	09/11/25 07:40	09/11/25 16:00
50412313002	**AR-AQMW08S-60001**	Water	09/11/25 07:00	09/11/25 16:00
50412313003	**AR-AQMW09D-60001**	Water	09/11/25 08:15	09/11/25 16:00
50412313004	**AR-AQMW09S-60001**	Water	09/11/25 08:45	09/11/25 16:00
50412313005	**Field Blank**	Water	09/11/25 09:05	09/11/25 16:00

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767001	**AR-AQMW010D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767002	**AR-AQMW010S-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767003	**AR-AQSW010-20001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767004	**AR-AQMW06D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767005	**AR-AQMW06S-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767006	**AR-AQMW07D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767007	**AR-AQMW07S-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767008	**AR-AQMW011D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767009	**AR-AQMW011S-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767010	**AR-AQMW012D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767011	**AR-AQMW012S-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767012	**AR-AQMW013D-60001**	EPA 9056	GLT	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50411767013	**AR-AQMW013S-60001**	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767014	**AR-AQMW014D-60001**	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767015	**AR-AQMW014S-60001**	EPA 9056	GLT, MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50411767016	**Duplicate**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	ILP	1	PASI-I
		EPA 903.1	TMY	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412306001	**AR-AQMW01D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306002	**AR-AQMW01S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306003	**AR-AQMW02D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306004	**AR-AQMW02S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412306005	**AR-AQMW03D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306006	**AR-AQMW03Sa-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306007	**AR-AQMW04D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306008	**AR-AQMW04S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412306009	**AR-AQMW05D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306010	**AR-AQMW05S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412306011	**AR-AQSW004-20001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313001	**AR-AQMW08D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50412313002	**AR-AQMW08S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313003	**AR-AQMW09D-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313004	**AR-AQMW09S-60001**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I
50412313005	**Field Blank**	EPA 9056	MTW	3	PASI-I
		EPA 6010	NWB	2	PASI-I
		EPA 6020	MTM	12	PASI-I
		EPA 7470	DAW	1	PASI-I
		EPA 903.1	DSO	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		SM 2540C	MED1	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis
PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50411767001	**AR-AQMW010D-60001**					
EPA 9056	Chloride	18.8	mg/L	0.25	09/11/25 16:37	
EPA 9056	Fluoride	0.13	mg/L	0.10	09/11/25 16:37	
EPA 9056	Sulfate	27.2	mg/L	0.25	09/11/25 16:37	
EPA 6010	Calcium	60800	ug/L	1000	09/11/25 09:54	
EPA 6020	Barium	0.026	mg/L	0.0010	09/11/25 05:17	
EPA 6020	Boron	0.059	mg/L	0.0050	09/11/25 05:17	N2
EPA 903.1	Radium-226	0.106 ± 0.330 (0.639) C:NA T:97%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.785 ± 0.414 (0.747) C:87% T:89%	pCi/L		09/30/25 11:30	
Total Radium Calculation	Total Radium	0.891 ± 0.744 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	253	mg/L	10.0	09/08/25 09:38	
50411767002	**AR-AQMW010S-60001**					
EPA 9056	Chloride	34.5	mg/L	2.5	09/11/25 17:46	
EPA 9056	Sulfate	63.1	mg/L	2.5	09/11/25 17:46	
EPA 6010	Calcium	71700	ug/L	1000	09/11/25 09:56	
EPA 6020	Barium	0.017	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Boron	0.044	mg/L	0.0050	09/11/25 05:21	N2
EPA 6020	Cobalt	0.0010	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	09/11/25 05:21	
EPA 6020	Selenium	0.0012	mg/L	0.0010	09/11/25 05:21	
EPA 903.1	Radium-226	0.346 ± 0.324 (0.459) C:NA T:99%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.458 ± 0.368 (0.722) C:79% T:79%	pCi/L		10/03/25 12:20	
Total Radium Calculation	Total Radium	0.804 ± 0.692 (1.18)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	328	mg/L	10.0	09/08/25 09:39	
50411767003	**AR-AQSW010-20001**					
EPA 9056	Chloride	7.8	mg/L	0.25	09/11/25 18:55	
EPA 9056	Fluoride	0.17	mg/L	0.10	09/11/25 18:55	
EPA 9056	Sulfate	58.7	mg/L	2.5	09/11/25 19:12	
EPA 6010	Calcium	61500	ug/L	1000	09/11/25 10:02	
EPA 6020	Arsenic	0.0014	mg/L	0.0010	09/11/25 05:25	
EPA 6020	Barium	0.063	mg/L	0.0010	09/11/25 05:25	
EPA 6020	Boron	0.047	mg/L	0.0050	09/11/25 05:25	N2
EPA 6020	Molybdenum	0.0066	mg/L	0.0010	09/11/25 05:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.425 ± 0.361 (0.447) C:NA T:90%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.808 ± 0.389 (0.654) C:80% T:75%	pCi/L		10/03/25 12:21	
Total Radium Calculation	Total Radium	1.23 ± 0.750 (1.10)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	264	mg/L	10.0	09/08/25 09:40	
50411767004	**AR-AQMW06D-60001**					
EPA 9056	Chloride	11.1	mg/L	0.25	09/11/25 19:46	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/11/25 19:46	
EPA 9056	Sulfate	78.5	mg/L	2.5	09/11/25 20:03	
EPA 6010	Calcium	64500	ug/L	1000	09/11/25 10:04	
EPA 6020	Arsenic	0.0018	mg/L	0.0010	09/11/25 05:36	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 05:36	
EPA 6020	Boron	0.022	mg/L	0.0050	09/11/25 05:36	N2
EPA 6020	Molybdenum	0.0048	mg/L	0.0010	09/11/25 05:36	
EPA 903.1	Radium-226	0.284 ± 0.297 (0.419) C:NA T:95%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.518 ± 0.370 (0.722) C:85% T:91%	pCi/L		09/30/25 11:28	
Total Radium Calculation	Total Radium	0.802 ± 0.667 (1.14)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	275	mg/L	10.0	09/08/25 09:40	
50411767005	**AR-AQMW06S-60001**					
EPA 9056	Chloride	13.6	mg/L	0.25	09/11/25 20:38	
EPA 9056	Sulfate	111	mg/L	2.5	09/11/25 20:55	
EPA 6010	Calcium	39300	ug/L	1000	09/11/25 10:06	
EPA 6020	Barium	0.033	mg/L	0.0010	09/11/25 06:04	
EPA 6020	Boron	0.045	mg/L	0.0050	09/11/25 06:04	N2
EPA 6020	Cadmium	0.00039	mg/L	0.00020	09/11/25 06:04	
EPA 6020	Cobalt	0.0096	mg/L	0.0010	09/11/25 06:04	
EPA 903.1	Radium-226	0.260 ± 0.307 (0.482) C:NA T:94%	pCi/L		10/01/25 14:26	
EPA 904.0	Radium-228	0.809 ± 0.454 (0.822) C:73% T:87%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.07 ± 0.761 (1.30)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	221	mg/L	10.0	09/08/25 09:40	
50411767006	**AR-AQMW07D-60001**					
EPA 9056	Chloride	19.0	mg/L	0.25	09/11/25 23:46	
EPA 9056	Fluoride	0.16	mg/L	0.10	09/11/25 23:46	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 9056	Sulfate	95.7	mg/L	2.5	09/12/25 00:04	
EPA 6010	Calcium	84300	ug/L	1000	09/11/25 10:08	
EPA 6020	Arsenic	0.011	mg/L	0.0010	09/11/25 06:08	
EPA 6020	Barium	0.039	mg/L	0.0010	09/11/25 06:08	
EPA 6020	Boron	0.036	mg/L	0.0050	09/11/25 06:08	N2
EPA 6020	Molybdenum	0.0043	mg/L	0.0010	09/11/25 06:08	
EPA 903.1	Radium-226	0.109 ± 0.249 (0.401) C:NA T:98%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.947 ± 0.451 (0.758) C:74% T:86%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.06 ± 0.700 (1.16)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	378	mg/L	10.0	09/10/25 11:02	
50411767007	**AR-AQMW07S-60001**					
EPA 9056	Chloride	4.9	mg/L	0.25	09/12/25 01:12	
EPA 9056	Fluoride	0.24	mg/L	0.10	09/12/25 01:12	
EPA 9056	Sulfate	221	mg/L	2.5	09/12/25 01:29	
EPA 6010	Calcium	88400	ug/L	1000	09/11/25 10:11	
EPA 6020	Antimony	0.0012	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Arsenic	0.0015	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Barium	0.092	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Boron	0.034	mg/L	0.0050	09/11/25 06:12	N2
EPA 6020	Cobalt	0.0024	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Molybdenum	0.0038	mg/L	0.0010	09/11/25 06:12	
EPA 6020	Selenium	0.0013	mg/L	0.0010	09/11/25 06:12	
EPA 903.1	Radium-226	0.000 ± 0.364 (0.756) C:NA T:95%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.498 ± 0.337 (0.633) C:77% T:90%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	0.498 ± 0.701 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	466	mg/L	10.0	09/10/25 11:02	
50411767008	**AR-AQMW011D-60001**					
EPA 9056	Chloride	74.0	mg/L	2.5	09/12/25 02:21	
EPA 9056	Fluoride	0.13	mg/L	0.10	09/12/25 02:04	
EPA 9056	Sulfate	1060	mg/L	25.0	09/12/25 02:38	
EPA 6010	Calcium	111000	ug/L	1000	09/11/25 10:13	
EPA 6020	Barium	0.052	mg/L	0.0010	09/11/25 07:42	
EPA 6020	Boron	0.73	mg/L	0.025	09/11/25 07:19	N2
EPA 6020	Molybdenum	0.0044	mg/L	0.0010	09/11/25 07:42	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.529 ± 0.552 (0.882) C:NA T:96%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.870 ± 0.422 (0.705) C:75% T:85%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.40 ± 0.974 (1.59)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	1870	mg/L	40.0	09/10/25 11:03	
50411767009	**AR-AQMW011S-60001**					
EPA 9056	Chloride	9.7	mg/L	0.25	09/12/25 02:55	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/12/25 02:55	
EPA 9056	Sulfate	46.8	mg/L	2.5	09/12/25 03:12	
EPA 6010	Calcium	69900	ug/L	1000	09/11/25 10:15	
EPA 6020	Barium	0.053	mg/L	0.0010	09/11/25 06:28	
EPA 6020	Boron	0.067	mg/L	0.0050	09/11/25 06:28	N2
EPA 6020	Cobalt	0.0012	mg/L	0.0010	09/11/25 06:28	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/11/25 06:28	
EPA 903.1	Radium-226	0.340 ± 0.289 (0.358) C:NA T:97%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.812 ± 0.444 (0.800) C:75% T:89%	pCi/L		09/30/25 14:34	
Total Radium Calculation	Total Radium	1.15 ± 0.733 (1.16)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	339	mg/L	10.0	09/10/25 11:03	
50411767010	**AR-AQMW012D-60001**					
EPA 9056	Chloride	110	mg/L	2.5	09/12/25 04:38	
EPA 9056	Fluoride	0.20	mg/L	0.10	09/12/25 04:21	
EPA 9056	Sulfate	1470	mg/L	25.0	09/12/25 04:55	
EPA 6010	Calcium	135000	ug/L	1000	09/11/25 10:17	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 07:50	
EPA 6020	Boron	0.96	mg/L	0.050	09/11/25 06:32	N2
EPA 6020	Molybdenum	0.031	mg/L	0.0010	09/11/25 07:50	
EPA 903.1	Radium-226	0.0520 ± 0.270 (0.560) C:NA T:95%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.526 ± 0.546 (1.14) C:76% T:84%	pCi/L		09/30/25 16:13	
Total Radium Calculation	Total Radium	0.578 ± 0.816 (1.70)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	2480	mg/L	40.0	09/10/25 11:03	
50411767011	**AR-AQMW012S-60001**					
EPA 9056	Chloride	11.9	mg/L	0.25	09/12/25 05:13	
EPA 9056	Fluoride	0.44	mg/L	0.10	09/12/25 05:13	

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 9056	Sulfate	40.8	mg/L	0.25	09/12/25 05:13	
EPA 6010	Calcium	50600	ug/L	1000	09/11/25 10:19	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Barium	0.055	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Boron	0.11	mg/L	0.0050	09/11/25 06:36	N2
EPA 6020	Molybdenum	0.017	mg/L	0.0010	09/11/25 06:36	
EPA 6020	Selenium	0.0012	mg/L	0.0010	09/11/25 06:36	
EPA 903.1	Radium-226	0.263 ± 0.372 (0.631) C:NA T:93%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.895 ± 0.500 (0.907) C:78% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	1.16 ± 0.872 (1.54)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	237	mg/L	10.0	09/10/25 11:04	
50411767012	**AR-AQMW013D-60001**					
EPA 9056	Chloride	80.4	mg/L	2.5	09/12/25 06:21	
EPA 9056	Fluoride	0.29	mg/L	0.10	09/12/25 06:04	
EPA 9056	Sulfate	868	mg/L	25.0	09/12/25 06:38	
EPA 6010	Calcium	52400	ug/L	1000	09/11/25 10:21	
EPA 6020	Antimony	0.0045	mg/L	0.0010	09/11/25 07:58	
EPA 6020	Barium	0.045	mg/L	0.0010	09/11/25 07:58	
EPA 6020	Boron	1.1	mg/L	0.10	09/11/25 07:23	N2
EPA 6020	Molybdenum	0.16	mg/L	0.0010	09/11/25 07:58	
EPA 903.1	Radium-226	0.412 ± 0.381 (0.555) C:NA T:94%	pCi/L		10/01/25 14:37	
EPA 904.0	Radium-228	0.346 ± 0.400 (0.839) C:79% T:82%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.758 ± 0.781 (1.39)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	1600	mg/L	20.0	09/08/25 09:41	
50411767013	**AR-AQMW013S-60001**					
EPA 9056	Chloride	14.5	mg/L	0.25	09/12/25 07:30	
EPA 9056	Fluoride	0.24	mg/L	0.10	09/12/25 07:30	
EPA 9056	Sulfate	75.7	mg/L	2.5	09/17/25 22:01	
EPA 6010	Calcium	56700	ug/L	1000	09/11/25 10:27	
EPA 6020	Arsenic	0.0033	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Barium	0.072	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Boron	0.052	mg/L	0.0050	09/11/25 06:51	N2
EPA 6020	Cobalt	0.0088	mg/L	0.0010	09/11/25 06:51	
EPA 6020	Molybdenum	0.0082	mg/L	0.0010	09/11/25 06:51	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.112 ± 0.466 (0.888) C:NA T:89%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.687 ± 0.438 (0.823) C:73% T:85%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.799 ± 0.904 (1.71)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	283	mg/L	10.0	09/08/25 09:41	
50411767014	**AR-AQMW014D-60001**					
EPA 9056	Chloride	15.6	mg/L	0.25	09/12/25 08:21	
EPA 9056	Fluoride	0.17	mg/L	0.10	09/12/25 08:21	
EPA 9056	Sulfate	81.9	mg/L	2.5	09/17/25 22:18	
EPA 6010	Calcium	86800	ug/L	1000	09/11/25 10:29	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/11/25 06:55	
EPA 6020	Barium	0.028	mg/L	0.0010	09/11/25 06:55	
EPA 6020	Boron	0.037	mg/L	0.0050	09/11/25 06:55	N2
EPA 6020	Molybdenum	0.0091	mg/L	0.0010	09/11/25 06:55	
EPA 903.1	Radium-226	-0.204 ± 0.424 (0.923) C:NA T:101%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.496 ± 0.372 (0.727) C:80% T:90%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.496 ± 0.796 (1.65)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	364	mg/L	10.0	09/08/25 09:41	
50411767015	**AR-AQMW014S-60001**					
EPA 9056	Chloride	14.5	mg/L	0.25	09/12/25 14:25	
EPA 9056	Fluoride	0.19	mg/L	0.10	09/12/25 14:25	
EPA 9056	Sulfate	75.5	mg/L	2.5	09/17/25 22:34	
EPA 6010	Calcium	40700	ug/L	1000	09/11/25 10:32	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Barium	0.10	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Boron	0.032	mg/L	0.0050	09/11/25 06:59	N2
EPA 6020	Cadmium	0.00021	mg/L	0.00020	09/11/25 06:59	
EPA 6020	Cobalt	0.036	mg/L	0.0010	09/11/25 06:59	
EPA 6020	Molybdenum	0.0016	mg/L	0.0010	09/11/25 06:59	
EPA 903.1	Radium-226	0.978 ± 0.671 (0.968) C:NA T:95%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.557 ± 0.409 (0.789) C:74% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	1.54 ± 1.08 (1.76)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	245	mg/L	10.0	09/08/25 09:42	

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7726 Moller Road
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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50411767016	**Duplicate**					
EPA 9056	Chloride	20.7	mg/L	0.25	09/17/25 23:25	
EPA 9056	Fluoride	0.14	mg/L	0.10	09/17/25 23:25	
EPA 9056	Sulfate	25.5	mg/L	0.25	09/17/25 23:25	
EPA 6010	Calcium	59800	ug/L	1000	09/11/25 10:34	
EPA 6020	Barium	0.025	mg/L	0.0010	09/11/25 07:03	
EPA 6020	Boron	0.070	mg/L	0.0050	09/11/25 07:03	N2
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	09/11/25 07:03	
EPA 903.1	Radium-226	0.0546 ± 0.249 (0.507) C:NA T:98%	pCi/L		10/01/25 14:49	
EPA 904.0	Radium-228	0.0685 ± 0.381 (0.873) C:73% T:86%	pCi/L		09/30/25 14:35	
Total Radium Calculation	Total Radium	0.123 ± 0.630 (1.38)	pCi/L		10/06/25 11:44	
SM 2540C	Total Dissolved Solids	254	mg/L	10.0	09/08/25 09:42	
50412306001	**AR-AQMW01D-60001**					
EPA 9056	Chloride	13.6	mg/L	0.25	09/15/25 14:40	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/15/25 14:40	
EPA 9056	Sulfate	51.8	mg/L	2.5	09/15/25 14:57	
EPA 6010	Calcium	77100	ug/L	1000	09/16/25 14:34	
EPA 6020	Barium	0.031	mg/L	0.0010	09/17/25 02:59	
EPA 6020	Boron	6.9	mg/L	0.50	09/18/25 00:29	1d,N2
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	09/17/25 02:59	
EPA 903.1	Radium-226	0.0881 ± 0.244 (0.474) C:NA T:110%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	0.818 ± 0.431 (0.755) C:78% T:85%	pCi/L		09/25/25 14:38	
Total Radium Calculation	Total Radium	0.906 ± 0.675 (1.23)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	09/17/25 08:42	
50412306002	**AR-AQMW01S-60001**					
EPA 9056	Chloride	4.4	mg/L	0.25	09/15/25 15:31	
EPA 9056	Sulfate	35.6	mg/L	0.25	09/15/25 15:31	
EPA 6010	Calcium	40300	ug/L	1000	09/16/25 14:45	
EPA 6020	Barium	0.011	mg/L	0.0010	09/17/25 03:03	
EPA 6020	Boron	0.18	mg/L	0.025	09/18/25 00:32	1d,N2
EPA 6020	Molybdenum	0.022	mg/L	0.0010	09/17/25 03:03	
EPA 6020	Selenium	0.0054	mg/L	0.0010	09/17/25 03:03	
EPA 903.1	Radium-226	0.000 ± 0.304 (0.631) C:NA T:98%	pCi/L		09/29/25 16:35	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 904.0	Radium-228	0.504 ± 0.365 (0.705) C:77% T:89%	pCi/L		09/25/25 14:38	
Total Radium Calculation	Total Radium	0.504 ± 0.669 (1.34)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	165	mg/L	10.0	09/17/25 08:43	
50412306003	**AR-AQMW02D-60001**					
EPA 9056	Chloride	30.0	mg/L	2.5	09/15/25 17:11	
EPA 9056	Fluoride	1.1	mg/L	0.10	09/15/25 16:55	
EPA 9056	Sulfate	780	mg/L	25.0	09/15/25 17:28	
EPA 6010	Calcium	68600	ug/L	1000	09/16/25 14:47	
EPA 6010	Lithium	24.8	ug/L	20.0	09/16/25 14:47	
EPA 6020	Barium	0.039	mg/L	0.0010	09/17/25 03:07	
EPA 6020	Boron	10.5	mg/L	1.0	09/18/25 00:37	1d,N2
EPA 6020	Molybdenum	1.3	mg/L	0.010	09/18/25 05:28	
EPA 903.1	Radium-226	0.187 ± 0.367 (0.659) C:NA T:96%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	1.17 ± 0.562 (1.00) C:77% T:83%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	1.36 ± 0.929 (1.66)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	1500	mg/L	20.0	09/25/25 09:52	H1
50412306004	**AR-AQMW02S-60001**					
EPA 9056	Chloride	3.4	mg/L	0.25	09/15/25 17:45	
EPA 9056	Fluoride	0.43	mg/L	0.10	09/15/25 17:45	
EPA 9056	Sulfate	332	mg/L	2.5	09/15/25 18:02	
EPA 6010	Calcium	137000	ug/L	1000	09/16/25 14:49	
EPA 6020	Arsenic	0.0047	mg/L	0.0010	09/17/25 03:10	
EPA 6020	Barium	0.098	mg/L	0.0010	09/17/25 03:10	
EPA 6020	Boron	3.3	mg/L	0.25	09/18/25 00:41	1d,N2
EPA 6020	Molybdenum	0.026	mg/L	0.0010	09/17/25 03:10	
EPA 903.1	Radium-226	0.719 ± 0.383 (0.331) C:NA T:99%	pCi/L		09/29/25 16:35	
EPA 904.0	Radium-228	1.10 ± 0.518 (0.923) C:82% T:89%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.82 ± 0.901 (1.25)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	627	mg/L	10.0	09/25/25 09:52	H1
50412306005	**AR-AQMW03D-60001**					
EPA 9056	Chloride	729	mg/L	25.0	09/15/25 19:09	
EPA 9056	Sulfate	12500	mg/L	250	09/19/25 21:06	
EPA 6010	Calcium	284000	ug/L	2000	09/16/25 15:31	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 6010	Lithium	65.9	ug/L	20.0	09/16/25 14:55	
EPA 6020	Arsenic	0.0021	mg/L	0.0010	09/17/25 03:22	
EPA 6020	Barium	0.029	mg/L	0.0010	09/17/25 03:22	
EPA 6020	Boron	12.0	mg/L	1.0	09/18/25 00:53	N2
EPA 6020	Molybdenum	0.32	mg/L	0.0030	09/18/25 05:32	
EPA 6020	Selenium	0.0032	mg/L	0.0010	09/17/25 03:22	
EPA 903.1	Radium-226	0.408 ± 0.271 (0.123) C:NA T:101%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	4.75 ± 1.08 (0.869) C:82% T:87%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	5.16 ± 1.35 (0.992)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	20100	mg/L	333	09/25/25 09:53	H1
50412306006	**AR-AQMW03Sa-60001**					
EPA 9056	Chloride	2.0	mg/L	0.25	09/15/25 19:59	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/15/25 19:59	
EPA 9056	Sulfate	233	mg/L	2.5	09/15/25 20:16	
EPA 6010	Calcium	134000	ug/L	1000	09/16/25 14:57	
EPA 6020	Arsenic	0.0073	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Barium	0.078	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Boron	1.6	mg/L	0.10	09/18/25 00:56	N2
EPA 6020	Cobalt	0.0015	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Molybdenum	0.026	mg/L	0.0010	09/17/25 03:26	
EPA 6020	Selenium	0.0018	mg/L	0.0010	09/17/25 03:26	
EPA 903.1	Radium-226	0.879 ± 0.453 (0.380) C:NA T:93%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.01 ± 0.524 (0.957) C:77% T:84%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.89 ± 0.977 (1.34)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	572	mg/L	10.0	09/25/25 09:53	H1
50412306007	**AR-AQMW04D-60001**					
EPA 9056	Chloride	110	mg/L	2.5	09/15/25 21:07	
EPA 9056	Fluoride	0.26	mg/L	0.10	09/15/25 20:50	
EPA 9056	Sulfate	1780	mg/L	25.0	09/15/25 21:23	
EPA 6010	Calcium	235000	ug/L	2000	09/16/25 15:34	
EPA 6010	Lithium	20.4	ug/L	20.0	09/16/25 15:00	
EPA 6020	Barium	0.044	mg/L	0.0010	09/17/25 03:30	
EPA 6020	Boron	5.2	mg/L	0.50	09/18/25 01:00	N2
EPA 6020	Molybdenum	1.5	mg/L	0.010	09/18/25 05:40	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	1.29 ± 0.543 (0.444) C:NA T:97%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.88 ± 0.594 (0.791) C:81% T:87%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	3.17 ± 1.14 (1.24)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	2970	mg/L	40.0	09/17/25 08:43	
50412306008	**AR-AQMW04S-60001**					
EPA 9056	Chloride	11.1	mg/L	0.25	09/15/25 21:40	
EPA 9056	Fluoride	0.27	mg/L	0.10	09/15/25 21:40	
EPA 9056	Sulfate	363	mg/L	2.5	09/15/25 21:57	
EPA 6010	Calcium	108000	ug/L	1000	09/16/25 15:02	
EPA 6020	Arsenic	0.0054	mg/L	0.0010	09/17/25 03:34	
EPA 6020	Barium	0.036	mg/L	0.0010	09/17/25 03:34	
EPA 6020	Boron	2.0	mg/L	0.25	09/18/25 01:04	N2
EPA 6020	Molybdenum	0.13	mg/L	0.0010	09/17/25 03:34	
EPA 903.1	Radium-226	0.479 ± 0.581 (0.963) C:NA T:99%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.10 ± 0.522 (0.912) C:79% T:88%	pCi/L		09/25/25 12:22	
Total Radium Calculation	Total Radium	1.58 ± 1.10 (1.88)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	747	mg/L	10.0	09/17/25 08:44	
50412306009	**AR-AQMW05D-60001**					
EPA 9056	Chloride	683	mg/L	25.0	09/17/25 20:37	
EPA 9056	Sulfate	4850	mg/L	250	09/17/25 20:54	
EPA 6010	Calcium	457000	ug/L	3000	09/16/25 15:36	
EPA 6010	Lithium	40.5	ug/L	20.0	09/16/25 15:04	
EPA 6020	Barium	0.067	mg/L	0.0010	09/17/25 03:50	
EPA 6020	Boron	13.9	mg/L	1.0	09/18/25 01:20	N2
EPA 6020	Molybdenum	2.6	mg/L	0.020	09/18/25 05:51	
EPA 903.1	Radium-226	1.45 ± 0.592 (0.520) C:NA T:102%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	3.48 ± 0.856 (0.804) C:80% T:88%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	4.93 ± 1.45 (1.32)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	8100	mg/L	100	09/17/25 08:44	
50412306010	**AR-AQMW05S-60001**					
EPA 9056	Chloride	7.2	mg/L	0.25	09/17/25 21:11	
EPA 9056	Fluoride	0.30	mg/L	0.10	09/17/25 21:11	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 9056	Sulfate	461	mg/L	2.5	09/17/25 21:27	
EPA 6010	Calcium	197000	ug/L	1000	09/16/25 15:06	
EPA 6020	Arsenic	0.0040	mg/L	0.0010	09/17/25 03:54	
EPA 6020	Barium	0.22	mg/L	0.0020	09/18/25 05:55	
EPA 6020	Boron	2.5	mg/L	0.25	09/18/25 01:24	N2
EPA 6020	Molybdenum	0.037	mg/L	0.0010	09/17/25 03:54	
EPA 903.1	Radium-226	0.649 ± 0.475 (0.655) C:NA T:97%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.68 ± 0.558 (0.783) C:79% T:88%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	2.33 ± 1.03 (1.44)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	908	mg/L	10.0	09/17/25 08:44	
50412306011	**AR-AQSW004-20001**					
EPA 9056	Chloride	26.8	mg/L	2.5	09/17/25 21:44	
EPA 9056	Fluoride	0.52	mg/L	0.10	09/16/25 00:45	
EPA 9056	Sulfate	480	mg/L	2.5	09/17/25 21:44	
EPA 6010	Calcium	72500	ug/L	1000	09/16/25 15:08	
EPA 6020	Arsenic	0.0016	mg/L	0.0010	09/17/25 03:58	
EPA 6020	Barium	0.038	mg/L	0.0010	09/17/25 03:58	
EPA 6020	Boron	3.3	mg/L	0.25	09/18/25 01:28	N2
EPA 6020	Molybdenum	0.31	mg/L	0.0020	09/18/25 05:59	
EPA 903.1	Radium-226	0.437 ± 0.342 (0.402) C:NA T:89%	pCi/L		09/29/25 16:48	
EPA 904.0	Radium-228	1.19 ± 0.500 (0.822) C:83% T:80%	pCi/L		09/25/25 12:21	
Total Radium Calculation	Total Radium	1.63 ± 0.842 (1.22)	pCi/L		09/29/25 17:52	
SM 2540C	Total Dissolved Solids	890	mg/L	10.0	09/25/25 09:54	H1
50412313001	**AR-AQMW08D-60001**					
EPA 9056	Chloride	7.7	mg/L	0.25	09/13/25 03:10	
EPA 9056	Fluoride	0.17	mg/L	0.10	09/13/25 03:10	
EPA 9056	Sulfate	26.5	mg/L	0.25	09/13/25 03:10	
EPA 6010	Calcium	49800	ug/L	1000	09/16/25 15:10	
EPA 6020	Barium	0.040	mg/L	0.0010	09/17/25 04:01	
EPA 6020	Boron	0.37	mg/L	0.050	09/18/25 01:32	N2
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/17/25 04:01	
EPA 903.1	Radium-226	0.482 ± 0.548 (0.892) C:NA T:94%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.218 ± 0.340 (0.735) C:80% T:89%	pCi/L		09/29/25 15:38	

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(317)228-3100

SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
Total Radium Calculation	Total Radium	0.700 ± 0.888 (1.63)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	229	mg/L	10.0	09/17/25 09:14	
50412313002	**AR-AQMW08S-60001**					
EPA 9056	Chloride	5.3	mg/L	0.25	09/13/25 04:34	
EPA 9056	Sulfate	28.5	mg/L	0.25	09/13/25 04:34	
EPA 6010	Calcium	28500	ug/L	1000	09/16/25 15:12	
EPA 6020	Barium	0.0042	mg/L	0.0010	09/17/25 04:13	
EPA 6020	Boron	0.029	mg/L	0.0050	09/18/25 01:44	N2
EPA 903.1	Radium-226	0.420 ± 0.295 (0.142) C:NA T:93%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.830 ± 0.434 (0.753) C:80% T:81%	pCi/L		09/29/25 15:38	
Total Radium Calculation	Total Radium	1.25 ± 0.729 (0.895)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	130	mg/L	10.0	09/17/25 09:14	
50412313003	**AR-AQMW09D-60001**					
EPA 9056	Chloride	17.8	mg/L	0.25	09/13/25 05:24	
EPA 9056	Fluoride	0.41	mg/L	0.10	09/13/25 05:24	
EPA 9056	Sulfate	1.8	mg/L	0.25	09/13/25 05:24	
EPA 6010	Calcium	44000	ug/L	1000	09/16/25 15:14	
EPA 6010	Lithium	43.8	ug/L	20.0	09/16/25 15:14	
EPA 6020	Barium	0.047	mg/L	0.0010	09/17/25 04:17	
EPA 6020	Boron	1.6	mg/L	0.10	09/18/25 01:48	N2
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	09/17/25 04:17	
EPA 903.1	Radium-226	0.724 ± 0.421 (0.449) C:NA T:95%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.438 ± 0.385 (0.778) C:80% T:87%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	1.16 ± 0.806 (1.23)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	318	mg/L	10.0	09/17/25 09:14	
50412313004	**AR-AQMW09S-60001**					
EPA 9056	Chloride	16.3	mg/L	0.25	09/13/25 06:14	
EPA 9056	Fluoride	0.41	mg/L	0.10	09/13/25 06:14	
EPA 9056	Sulfate	45.4	mg/L	2.5	09/13/25 06:31	
EPA 6010	Calcium	54600	ug/L	1000	09/16/25 15:21	
EPA 6020	Barium	0.049	mg/L	0.0010	09/17/25 04:21	
EPA 6020	Boron	0.025	mg/L	0.0050	09/18/25 01:52	N2
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	09/17/25 04:21	

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SUMMARY OF DETECTION

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
EPA 903.1	Radium-226	0.257 ± 0.581 (1.04) C:NA T:95%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.539 ± 0.384 (0.740) C:71% T:91%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	0.796 ± 0.965 (1.78)	pCi/L		10/01/25 16:32	
SM 2540C	Total Dissolved Solids	279	mg/L	10.0	09/17/25 09:14	
50412313005	**Field Blank**					
EPA 903.1	Radium-226	-0.258 ± 0.441 (0.969) C:NA T:99%	pCi/L		10/01/25 12:56	
EPA 904.0	Radium-228	0.252 ± 0.302 (0.634) C:80% T:89%	pCi/L		09/29/25 15:39	
Total Radium Calculation	Total Radium	0.252 ± 0.743 (1.60)	pCi/L		10/01/25 16:32	

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 9056 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 862106
A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50411767005
M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- MS (Lab ID: 3948889)
  - Chloride

Additional Information:
Analyte Comments:

QC Batch: 862517
D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- AR-AQMW03D-60001 (Lab ID: 50412306005)
  - Fluoride

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 6010 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:
Analyte Comments:

QC Batch: 861536
E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MS (Lab ID: 3946844)
  - Calcium
- MSD (Lab ID: 3946845)
  - Calcium

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 6020 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.
The samples were prepared in accordance with EPA 200.2 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.
QC Batch: 862825
CC: The continuing calibration for this compound is outside of method control limits. The result is estimated.
- MS (Lab ID: 3952339)
  - Beryllium
- MS (Lab ID: 3952339)
  - Boron
- MSD (Lab ID: 3952340)
  - Beryllium
- MSD (Lab ID: 3952340)
  - Boron

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.
QC Batch: 862825
A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50412535001
P6: Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- MS (Lab ID: 3952339)
  - Boron
- MSD (Lab ID: 3952340)
  - Boron

Additional Information:
Analyte Comments:

QC Batch: 861811
N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

Analyte Comments:

QC Batch: 861811
- AR-AQMW010D-60001 (Lab ID: 50411767001)
  - Boron
- AR-AQMW010S-60001 (Lab ID: 50411767002)
  - Boron
- AR-AQMW011D-60001 (Lab ID: 50411767008)
  - Boron
- AR-AQMW011S-60001 (Lab ID: 50411767009)
  - Boron
- AR-AQMW012D-60001 (Lab ID: 50411767010)
  - Boron
- AR-AQMW012S-60001 (Lab ID: 50411767011)
  - Boron
- AR-AQMW013D-60001 (Lab ID: 50411767012)
  - Boron
- AR-AQMW013S-60001 (Lab ID: 50411767013)
  - Boron
- AR-AQMW014D-60001 (Lab ID: 50411767014)
  - Boron
- AR-AQMW014S-60001 (Lab ID: 50411767015)
  - Boron
- AR-AQMW06D-60001 (Lab ID: 50411767004)
  - Boron
- AR-AQMW06S-60001 (Lab ID: 50411767005)
  - Boron
- AR-AQMW07D-60001 (Lab ID: 50411767006)
  - Boron
- AR-AQMW07S-60001 (Lab ID: 50411767007)
  - Boron
- AR-AQSW010-20001 (Lab ID: 50411767003)
  - Boron
- BLANK (Lab ID: 3947762)
  - Boron
- Duplicate (Lab ID: 50411767016)
  - Boron
- LCS (Lab ID: 3947763)
  - Boron
- MS (Lab ID: 3947764)
  - Boron
- MSD (Lab ID: 3947765)
  - Boron

QC Batch: 862825

1d: Analyte was detected in the continuing calibration blank. Analyte concentration is at least ten times that of the blank. MTM 9/18/25
- AR-AQMW01D-60001 (Lab ID: 50412306001)
  - Boron
- AR-AQMW01S-60001 (Lab ID: 50412306002)
  - Boron
- AR-AQMW02D-60001 (Lab ID: 50412306003)
  - Boron
- AR-AQMW02S-60001 (Lab ID: 50412306004)
  - Boron

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_Applied Geology
Date: October 06, 2025

Analyte Comments:

QC Batch: 862825
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
  - Beryllium

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- MS (Lab ID: 3952339)
  - Boron
- MSD (Lab ID: 3952340)
  - Boron

N2: The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
- AR-AQMW01D-60001 (Lab ID: 50412306001)
  - Boron
- AR-AQMW01S-60001 (Lab ID: 50412306002)
  - Boron
- AR-AQMW02D-60001 (Lab ID: 50412306003)
  - Boron
- AR-AQMW02S-60001 (Lab ID: 50412306004)
  - Boron
- AR-AQMW03D-60001 (Lab ID: 50412306005)
  - Boron
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
  - Boron
- AR-AQMW04D-60001 (Lab ID: 50412306007)
  - Boron
- AR-AQMW04S-60001 (Lab ID: 50412306008)
  - Boron
- AR-AQMW05D-60001 (Lab ID: 50412306009)
  - Boron
- AR-AQMW05S-60001 (Lab ID: 50412306010)
  - Boron
- AR-AQMW08D-60001 (Lab ID: 50412313001)
  - Boron
- AR-AQMW08S-60001 (Lab ID: 50412313002)
  - Boron
- AR-AQMW09D-60001 (Lab ID: 50412313003)
  - Boron
- AR-AQMW09S-60001 (Lab ID: 50412313004)
  - Boron
- AR-AQSW004-20001 (Lab ID: 50412306011)
  - Boron
- BLANK (Lab ID: 3952337)
  - Boron
- Field Blank (Lab ID: 50412313005)
  - Boron
- LCS (Lab ID: 3952338)
  - Boron
- MS (Lab ID: 3952339)
  - Boron
- MSD (Lab ID: 3952340)
  - Boron

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 7470 by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Information:

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PROJECT NARRATIVE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: NiSource_Applied Geology
Date: October 06, 2025

General Information:
32 samples were analyzed for SM 2540C by Pace Analytical Services Indianapolis. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- AR-AQMW02D-60001 (Lab ID: 50412306003)
- AR-AQMW02S-60001 (Lab ID: 50412306004)
- AR-AQMW03D-60001 (Lab ID: 50412306005)
- AR-AQMW03Sa-60001 (Lab ID: 50412306006)
- AR-AQSW004-20001 (Lab ID: 50412306011)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 861624
R1: RPD value was outside control limits.
- DUP (Lab ID: 3947139)
  - Total Dissolved Solids

Additional Information:
Analyte Comments:

QC Batch: 863541
PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- Field Blank (Lab ID: 50412313005)
  - Total Dissolved Solids

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW010D-60001 **Lab ID: 50411767001** Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**18.8**	mg/L	0.25	1		09/11/25 16:37	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/11/25 16:37	16984-48-8	
Sulfate	**27.2**	mg/L	0.25	1		09/11/25 16:37	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**60800**	ug/L	1000	1	09/10/25 20:55	09/11/25 09:54	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 09:54	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-38-2	
Barium	**0.026**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:17	7440-41-7	
Boron	**0.059**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:17	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:17	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:17	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:30	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:17	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**253**	mg/L	10.0	1		09/08/25 09:38		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW010S-60001 **Lab ID: 50411767002** Collected: 09/03/25 09:02 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**34.5**	mg/L	2.5	10		09/11/25 17:46	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/11/25 17:29	16984-48-8	
Sulfate	**63.1**	mg/L	2.5	10		09/11/25 17:46	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**71700**	ug/L	1000	1	09/10/25 20:55	09/11/25 09:56	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 09:56	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-38-2	
Barium	**0.017**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:21	7440-41-7	
Boron	**0.044**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:21	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:21	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:21	7440-47-3	
Cobalt	**0.0010**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:34	7439-92-1	
Molybdenum	**0.0011**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7439-98-7	
Selenium	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:21	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**328**	mg/L	10.0	1		09/08/25 09:39		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQSW010-20001 **Lab ID: 50411767003** Collected: 09/03/25 09:46 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**7.8**	mg/L	0.25	1		09/11/25 18:55	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		09/11/25 18:55	16984-48-8	
Sulfate	**58.7**	mg/L	2.5	10		09/11/25 19:12	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**61500**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:02	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:02	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-36-0	
Arsenic	**0.0014**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-38-2	
Barium	**0.063**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:25	7440-41-7	
Boron	**0.047**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:25	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:25	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:25	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:37	7439-92-1	
Molybdenum	**0.0066**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:25	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**264**	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW06D-60001 **Lab ID: 50411767004** Collected: 09/03/25 11:20 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**11.1**	mg/L	0.25	1		09/11/25 19:46	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	1		09/11/25 19:46	16984-48-8	
Sulfate	**78.5**	mg/L	2.5	10		09/11/25 20:03	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**64500**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:04	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:04	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-36-0	
Arsenic	**0.0018**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-38-2	
Barium	**0.028**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:36	7440-41-7	
Boron	**0.022**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 05:36	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 05:36	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 05:36	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:41	7439-92-1	
Molybdenum	**0.0048**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 05:36	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 21:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**275**	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW06S-60001 **Lab ID: 50411767005** Collected: 09/03/25 10:42 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**13.6**	mg/L	0.25	1		09/11/25 20:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/11/25 20:38	16984-48-8	
Sulfate	**111**	mg/L	2.5	10		09/11/25 20:55	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**39300**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:06	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:06	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-38-2	
Barium	**0.033**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:04	7440-41-7	
Boron	**0.045**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:04	7440-42-8	N2
Cadmium	**0.00039**	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:04	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:04	7440-47-3	
Cobalt	**0.0096**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:27	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:04	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 22:35	09/10/25 10:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**221**	mg/L	10.0	1		09/08/25 09:40		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW07D-60001 **Lab ID: 50411767006** Collected: 09/04/25 09:30 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**19.0**	mg/L	0.25	1		09/11/25 23:46	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	1		09/11/25 23:46	16984-48-8	
Sulfate	**95.7**	mg/L	2.5	10		09/12/25 00:04	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**84300**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:08	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:08	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-36-0	
Arsenic	**0.011**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-38-2	
Barium	**0.039**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:08	7440-41-7	
Boron	**0.036**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:08	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:08	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:08	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:31	7439-92-1	
Molybdenum	**0.0043**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:08	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**378**	mg/L	10.0	1		09/10/25 11:02		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW07S-60001 **Lab ID: 50411767007** Collected: 09/04/25 09:25 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**4.9**	mg/L	0.25	1		09/12/25 01:12	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	1		09/12/25 01:12	16984-48-8	
Sulfate	**221**	mg/L	2.5	10		09/12/25 01:29	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**88400**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:11	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:11	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-36-0	
Arsenic	**0.0015**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-38-2	
Barium	**0.092**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:12	7440-41-7	
Boron	**0.034**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:12	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:12	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:12	7440-47-3	
Cobalt	**0.0024**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:35	7439-92-1	
Molybdenum	**0.0038**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7439-98-7	
Selenium	**0.0013**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:12	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**466**	mg/L	10.0	1		09/10/25 11:02		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW011D-60001 **Lab ID: 50411767008** Collected: 09/04/25 12:00 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**74.0**	mg/L	2.5	10		09/12/25 02:21	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	1		09/12/25 02:04	16984-48-8	
Sulfate	**1060**	mg/L	25.0	100		09/12/25 02:38	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**111000**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:13	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:13	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-38-2	
Barium	**0.052**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:42	7440-41-7	
Boron	**0.73**	mg/L	0.025	5	09/10/25 08:08	09/11/25 07:19	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:42	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:42	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:39	7439-92-1	
Molybdenum	**0.0044**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:42	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1870**	mg/L	40.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW011S-60001 **Lab ID: 50411767009** Collected: 09/04/25 12:55 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**9.7**	mg/L	0.25	1		09/12/25 02:55	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		09/12/25 02:55	16984-48-8	
Sulfate	**46.8**	mg/L	2.5	10		09/12/25 03:12	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**69900**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:15	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:15	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-38-2	
Barium	**0.053**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:28	7440-41-7	
Boron	**0.067**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:28	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:28	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:28	7440-47-3	
Cobalt	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:56	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:28	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**339**	mg/L	10.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW012D-60001 **Lab ID: 50411767010** Collected: 09/04/25 10:20 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**110**	mg/L	2.5	10		09/12/25 04:38	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	1		09/12/25 04:21	16984-48-8	
Sulfate	**1470**	mg/L	25.0	100		09/12/25 04:55	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**135000**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:17	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:17	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-38-2	
Barium	**0.028**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:50	7440-41-7	
Boron	**0.96**	mg/L	0.050	10	09/10/25 08:08	09/11/25 06:32	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:50	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:50	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:59	7439-92-1	
Molybdenum	**0.031**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:50	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 22:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**2480**	mg/L	40.0	1		09/10/25 11:03		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW012S-60001 **Lab ID: 50411767011** Collected: 09/04/25 10:50 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**11.9**	mg/L	0.25	1		09/12/25 05:13	16887-00-6	
Fluoride	**0.44**	mg/L	0.10	1		09/12/25 05:13	16984-48-8	
Sulfate	**40.8**	mg/L	0.25	1		09/12/25 05:13	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**50600**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:19	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:19	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-38-2	
Barium	**0.055**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:36	7440-41-7	
Boron	**0.11**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:36	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:36	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:36	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:05	7439-92-1	
Molybdenum	**0.017**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7439-98-7	
Selenium	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:36	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 08:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**237**	mg/L	10.0	1		09/10/25 11:04		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW013D-60001 **Lab ID: 50411767012** Collected: 09/03/25 14:50 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**80.4**	mg/L	2.5	10		09/12/25 06:21	16887-00-6	
Fluoride	**0.29**	mg/L	0.10	1		09/12/25 06:04	16984-48-8	
Sulfate	**868**	mg/L	25.0	100		09/12/25 06:38	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**52400**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:21	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	**0.0045**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-38-2	
Barium	**0.045**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:58	7440-41-7	
Boron	**1.1**	mg/L	0.10	20	09/10/25 08:08	09/11/25 07:23	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:58	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:58	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:09	7439-92-1	
Molybdenum	**0.16**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:58	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1600**	mg/L	20.0	1		09/08/25 09:41		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW013S-60001 **Lab ID: 50411767013** Collected: 09/03/25 15:25 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**14.5**	mg/L	0.25	1		09/12/25 07:30	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	1		09/12/25 07:30	16984-48-8	
Sulfate	**75.7**	mg/L	2.5	10		09/17/25 22:01	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**56700**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:27	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:27	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7440-36-0	
Arsenic	**0.0033**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7440-38-2	
Barium	**0.072**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:51	7440-41-7	
Boron	**0.052**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:51	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:51	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:51	7440-47-3	
Cobalt	**0.0088**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:21	7439-92-1	
Molybdenum	**0.0082**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:51	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**283**	mg/L	10.0	1		09/08/25 09:41		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW014D-60001 **Lab ID: 50411767014** Collected: 09/03/25 13:02 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**15.6**	mg/L	0.25	1		09/12/25 08:21	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		09/12/25 08:21	16984-48-8	
Sulfate	**81.9**	mg/L	2.5	10		09/17/25 22:18	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**86800**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:29	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:29	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-38-2	
Barium	**0.028**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:55	7440-41-7	
Boron	**0.037**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:55	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:55	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:55	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:25	7439-92-1	
Molybdenum	**0.0091**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:55	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**364**	mg/L	10.0	1		09/08/25 09:41		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW014S-60001 **Lab ID: 50411767015** Collected: 09/03/25 13:42 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**14.5**	mg/L	0.25	1		09/12/25 14:25	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	1		09/12/25 14:25	16984-48-8	
Sulfate	**75.5**	mg/L	2.5	10		09/17/25 22:34	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**40700**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:32	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:32	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7440-36-0	
Arsenic	**0.0011**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7440-38-2	
Barium	**0.10**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:59	7440-41-7	
Boron	**0.032**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 06:59	7440-42-8	N2
Cadmium	**0.00021**	mg/L	0.00020	1	09/10/25 08:08	09/11/25 06:59	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 06:59	7440-47-3	
Cobalt	**0.036**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:29	7439-92-1	
Molybdenum	**0.0016**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 06:59	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**245**	mg/L	10.0	1		09/08/25 09:42		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: Duplicate **Lab ID: 50411767016** Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**20.7**	mg/L	0.25	1		09/17/25 23:25	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	1		09/17/25 23:25	16984-48-8	
Sulfate	**25.5**	mg/L	0.25	1		09/17/25 23:25	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**59800**	ug/L	1000	1	09/10/25 20:55	09/11/25 10:34	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/10/25 20:55	09/11/25 10:34	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7440-38-2	
Barium	**0.025**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:03	7440-41-7	
Boron	**0.070**	mg/L	0.0050	1	09/10/25 08:08	09/11/25 07:03	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/10/25 08:08	09/11/25 07:03	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/10/25 08:08	09/11/25 07:03	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:32	7439-92-1	
Molybdenum	**0.0011**	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 07:03	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/10/25 08:08	09/11/25 23:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/09/25 11:27	09/10/25 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**254**	mg/L	10.0	1		09/08/25 09:42		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW01D-60001 **Lab ID: 50412306001** Collected: 09/10/25 12:35 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**13.6**	mg/L	0.25	1		09/15/25 14:40	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		09/15/25 14:40	16984-48-8	
Sulfate	**51.8**	mg/L	2.5	10		09/15/25 14:57	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**77100**	ug/L	1000	1	09/15/25 16:17	09/16/25 14:34	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:34	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-38-2	
Barium	**0.031**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 02:59	7440-41-7	
Boron	**6.9**	mg/L	0.50	100	09/16/25 08:30	09/18/25 00:29	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 02:59	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 02:59	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7439-92-1	
Molybdenum	**0.0018**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 02:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 21:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**351**	mg/L	10.0	1		09/17/25 08:42		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW01S-60001 **Lab ID: 50412306002** Collected: 09/10/25 13:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**4.4**	mg/L	0.25	1		09/15/25 15:31	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/25 15:31	16984-48-8	
Sulfate	**35.6**	mg/L	0.25	1		09/15/25 15:31	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**40300**	ug/L	1000	1	09/15/25 16:17	09/16/25 14:45	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:45	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-38-2	
Barium	**0.011**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:03	7440-41-7	
Boron	**0.18**	mg/L	0.025	5	09/16/25 08:30	09/18/25 00:32	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:03	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:03	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7439-92-1	
Molybdenum	**0.022**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7439-98-7	
Selenium	**0.0054**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 21:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**165**	mg/L	10.0	1		09/17/25 08:43		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW02D-60001 **Lab ID: 50412306003** Collected: 09/09/25 10:00 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**30.0**	mg/L	2.5	10		09/15/25 17:11	16887-00-6	
Fluoride	**1.1**	mg/L	0.10	1		09/15/25 16:55	16984-48-8	
Sulfate	**780**	mg/L	25.0	100		09/15/25 17:28	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**68600**	ug/L	1000	1	09/15/25 16:17	09/16/25 14:47	7440-70-2	
Lithium	**24.8**	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:47	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7440-38-2	
Barium	**0.039**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:07	7440-41-7	
Boron	**10.5**	mg/L	1.0	200	09/16/25 08:30	09/18/25 00:37	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:07	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:07	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7439-92-1	
Molybdenum	**1.3**	mg/L	0.010	10	09/16/25 08:30	09/18/25 05:28	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 50 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**1500**	mg/L	20.0	1		09/25/25 09:52		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW02S-60001 **Lab ID: 50412306004** Collected: 09/09/25 10:36 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**3.4**	mg/L	0.25	1		09/15/25 17:45	16887-00-6	
Fluoride	**0.43**	mg/L	0.10	1		09/15/25 17:45	16984-48-8	
Sulfate	**332**	mg/L	2.5	10		09/15/25 18:02	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**137000**	ug/L	1000	1	09/15/25 16:17	09/16/25 14:49	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:49	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-36-0	
Arsenic	**0.0047**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-38-2	
Barium	**0.098**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:10	7440-41-7	
Boron	**3.3**	mg/L	0.25	50	09/16/25 08:30	09/18/25 00:41	7440-42-8	1d,N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:10	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:10	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7439-92-1	
Molybdenum	**0.026**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**627**	mg/L	10.0	1		09/25/25 09:52		H1

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(317)228-3100

ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW03D-60001 **Lab ID: 50412306005** Collected: 09/09/25 14:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**729**	mg/L	25.0	100		09/15/25 19:09	16887-00-6	
Fluoride	ND	mg/L	1.0	10		09/15/25 18:52	16984-48-8	D3
Sulfate	**12500**	mg/L	250	1000		09/19/25 21:06	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**284000**	ug/L	2000	2	09/15/25 16:17	09/16/25 15:31	7440-70-2	
Lithium	**65.9**	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:55	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-36-0	
Arsenic	**0.0021**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-38-2	
Barium	**0.029**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:22	7440-41-7	
Boron	**12.0**	mg/L	1.0	200	09/16/25 08:30	09/18/25 00:53	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:22	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:22	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7439-92-1	
Molybdenum	**0.32**	mg/L	0.0030	3	09/16/25 08:30	09/18/25 05:32	7439-98-7	
Selenium	**0.0032**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 3 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**20100**	mg/L	333	1		09/25/25 09:53		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW03Sa-60001 **Lab ID: 50412306006** Collected: 09/09/25 14:35 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**2.0**	mg/L	0.25	1		09/15/25 19:59	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	1		09/15/25 19:59	16984-48-8	
Sulfate	**233**	mg/L	2.5	10		09/15/25 20:16	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**134000**	ug/L	1000	1	09/15/25 16:17	09/16/25 14:57	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 14:57	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-36-0	
Arsenic	**0.0073**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-38-2	
Barium	**0.078**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-39-3	
Beryllium	ND	mg/L	0.00040	2	09/16/25 08:30	09/18/25 05:36	7440-41-7	D3
Boron	**1.6**	mg/L	0.10	20	09/16/25 08:30	09/18/25 00:56	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:26	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:26	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7439-92-1	
Molybdenum	**0.026**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7439-98-7	
Selenium	**0.0018**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**572**	mg/L	10.0	1		09/25/25 09:53		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW04D-60001 **Lab ID: 50412306007** Collected: 09/10/25 09:50 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**110**	mg/L	2.5	10		09/15/25 21:07	16887-00-6	
Fluoride	**0.26**	mg/L	0.10	1		09/15/25 20:50	16984-48-8	
Sulfate	**1780**	mg/L	25.0	100		09/15/25 21:23	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**235000**	ug/L	2000	2	09/15/25 16:17	09/16/25 15:34	7440-70-2	
Lithium	**20.4**	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:00	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-38-2	
Barium	**0.044**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:30	7440-41-7	
Boron	**5.2**	mg/L	0.50	100	09/16/25 08:30	09/18/25 01:00	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:30	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:30	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7439-92-1	
Molybdenum	**1.5**	mg/L	0.010	10	09/16/25 08:30	09/18/25 05:40	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**2970**	mg/L	40.0	1		09/17/25 08:43		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW04S-60001 **Lab ID: 50412306008** Collected: 09/10/25 10:25 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**11.1**	mg/L	0.25	1		09/15/25 21:40	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	1		09/15/25 21:40	16984-48-8	
Sulfate	**363**	mg/L	2.5	10		09/15/25 21:57	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**108000**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:02	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:02	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-36-0	
Arsenic	**0.0054**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-38-2	
Barium	**0.036**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:34	7440-41-7	
Boron	**2.0**	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:04	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:34	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:34	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7439-92-1	
Molybdenum	**0.13**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**747**	mg/L	10.0	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW05D-60001 **Lab ID: 50412306009** Collected: 09/10/25 11:45 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**683**	mg/L	25.0	100		09/17/25 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/15/25 23:04	16984-48-8	
Sulfate	**4850**	mg/L	250	1000		09/17/25 20:54	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**457000**	ug/L	3000	3	09/15/25 16:17	09/16/25 15:36	7440-70-2	
Lithium	**40.5**	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:04	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-38-2	
Barium	**0.067**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:03	7440-41-7	
Boron	**13.9**	mg/L	1.0	200	09/16/25 08:30	09/18/25 01:20	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:50	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:50	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7439-92-1	
Molybdenum	**2.6**	mg/L	0.020	20	09/16/25 08:30	09/18/25 05:51	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 10 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**8100**	mg/L	100	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW05S-60001 **Lab ID: 50412306010** Collected: 09/10/25 11:10 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**7.2**	mg/L	0.25	1		09/17/25 21:11	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	1		09/17/25 21:11	16984-48-8	
Sulfate	**461**	mg/L	2.5	10		09/17/25 21:27	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**197000**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:06	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:06	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-36-0	
Arsenic	**0.0040**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-38-2	
Barium	**0.22**	mg/L	0.0020	2	09/16/25 08:30	09/18/25 05:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:19	7440-41-7	
Boron	**2.5**	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:24	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:54	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:54	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7439-92-1	
Molybdenum	**0.037**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**908**	mg/L	10.0	1		09/17/25 08:44		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQSW004-20001 **Lab ID: 50412306011** Collected: 09/09/25 15:20 Received: 09/11/25 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**26.8**	mg/L	2.5	10		09/17/25 21:44	16887-00-6	
Fluoride	**0.52**	mg/L	0.10	1		09/16/25 00:45	16984-48-8	
Sulfate	**480**	mg/L	2.5	10		09/17/25 21:44	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**72500**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:08	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:08	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-36-0	
Arsenic	**0.0016**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-38-2	
Barium	**0.038**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:23	7440-41-7	
Boron	**3.3**	mg/L	0.25	50	09/16/25 08:30	09/18/25 01:28	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 03:58	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 03:58	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7439-92-1	
Molybdenum	**0.31**	mg/L	0.0020	2	09/16/25 08:30	09/18/25 05:59	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 03:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/15/25 12:18	09/15/25 22:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**890**	mg/L	10.0	1		09/25/25 09:54		H1

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW08D-60001 **Lab ID: 50412313001** Collected: 09/11/25 07:40 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**7.7**	mg/L	0.25	1		09/13/25 03:10	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	1		09/13/25 03:10	16984-48-8	
Sulfate	**26.5**	mg/L	0.25	1		09/13/25 03:10	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**49800**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:10	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:10	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7440-38-2	
Barium	**0.040**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:27	7440-41-7	
Boron	**0.37**	mg/L	0.050	10	09/16/25 08:30	09/18/25 01:32	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:01	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:01	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**229**	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW08S-60001 **Lab ID: 50412313002** Collected: 09/11/25 07:00 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**5.3**	mg/L	0.25	1		09/13/25 04:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/13/25 04:34	16984-48-8	
Sulfate	**28.5**	mg/L	0.25	1		09/13/25 04:34	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**28500**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:12	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:12	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-38-2	
Barium	**0.0042**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:44	7440-41-7	
Boron	**0.029**	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:44	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:13	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:13	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**130**	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW09D-60001 **Lab ID: 50412313003** Collected: 09/11/25 08:15 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**17.8**	mg/L	0.25	1		09/13/25 05:24	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	1		09/13/25 05:24	16984-48-8	
Sulfate	**1.8**	mg/L	0.25	1		09/13/25 05:24	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**44000**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:14	7440-70-2	
Lithium	**43.8**	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:14	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-38-2	
Barium	**0.047**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 06:31	7440-41-7	
Boron	**1.6**	mg/L	0.10	20	09/16/25 08:30	09/18/25 01:48	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:17	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:17	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**318**	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW09S-60001 **Lab ID: 50412313004** Collected: 09/11/25 08:45 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	**16.3**	mg/L	0.25	1		09/13/25 06:14	16887-00-6	
Fluoride	**0.41**	mg/L	0.10	1		09/13/25 06:14	16984-48-8	
Sulfate	**45.4**	mg/L	2.5	10		09/13/25 06:31	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	**54600**	ug/L	1000	1	09/15/25 16:17	09/16/25 15:21	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:21	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-38-2	
Barium	**0.049**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:52	7440-41-7	
Boron	**0.025**	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:52	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:21	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:21	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7439-92-1	
Molybdenum	**0.0030**	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 18:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	**279**	mg/L	10.0	1		09/17/25 09:14		

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ANALYTICAL RESULTS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: Field Blank **Lab ID: 50412313005** Collected: 09/11/25 09:05 Received: 09/11/25 16:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056 Initial Volume/Weight: 10 mL Final Volume/Weight: 10 mL Pace Analytical Services - Indianapolis							
Chloride	ND	mg/L	0.25	1		09/13/25 07:38	16887-00-6	
Fluoride	ND	mg/L	0.10	1		09/13/25 07:38	16984-48-8	
Sulfate	ND	mg/L	0.25	1		09/13/25 07:38	14808-79-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Calcium	ND	ug/L	1000	1	09/15/25 16:17	09/16/25 15:23	7440-70-2	
Lithium	ND	ug/L	20.0	1	09/15/25 16:17	09/16/25 15:23	7439-93-2	
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 200.2 Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL Pace Analytical Services - Indianapolis							
Antimony	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-36-0	
Arsenic	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-38-2	
Barium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	1	09/16/25 08:30	09/18/25 01:56	7440-41-7	
Boron	ND	mg/L	0.0050	1	09/16/25 08:30	09/18/25 01:56	7440-42-8	N2
Cadmium	ND	mg/L	0.00020	1	09/16/25 08:30	09/17/25 04:25	7440-43-9	
Chromium	ND	mg/L	0.0020	1	09/16/25 08:30	09/17/25 04:25	7440-47-3	
Cobalt	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-48-4	
Lead	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7439-92-1	
Molybdenum	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7439-98-7	
Selenium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7782-49-2	
Thallium	ND	mg/L	0.0010	1	09/16/25 08:30	09/17/25 04:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470 Initial Volume/Weight: 30 mL Final Volume/Weight: 30 mL Pace Analytical Services - Indianapolis							
Mercury	ND	ug/L	2.0	1	09/17/25 11:19	09/17/25 19:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 100 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis							
Total Dissolved Solids	ND	mg/L	10.0	1		09/18/25 12:35		PL

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862106
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3948883 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/11/25 09:06	
Fluoride	mg/L	ND	0.10	09/11/25 09:06	
Sulfate	mg/L	ND	0.25	09/11/25 09:06	

LABORATORY CONTROL SAMPLE: 3948884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	90	80-120	
Fluoride	mg/L	1	0.98	98	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3948889 3948890

Parameter	Units	50411767005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	13.6	2.5	2.5	16.7	16.5	122	113	80-120	1	15	M0
Fluoride	mg/L	ND	1	1	1.1	1.1	101	101	80-120	0	15	
Sulfate	mg/L	111	50	50	161	161	100	99	80-120	0	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862493
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3950620 Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/12/25 10:19	
Fluoride	mg/L	ND	0.10	09/12/25 10:19	
Sulfate	mg/L	ND	0.25	09/12/25 10:19	

LABORATORY CONTROL SAMPLE: 3950621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.6	106	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950622 3950623

Parameter	Units	50412217002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	75.0	25	25	98.6	98.7	94	95	80-120	0	15	
Fluoride	mg/L	0.12	1	1	1.1	1.1	102	99	80-120	2	15	
Sulfate	mg/L	38.5	5	5	43.8	43.6	105	102	80-120	0	15	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862517
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

METHOD BLANK: 3950676 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	09/15/25 14:06	
Fluoride	mg/L	ND	0.10	09/15/25 14:06	
Sulfate	mg/L	ND	0.25	09/15/25 14:06	

LABORATORY CONTROL SAMPLE: 3950677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.6	105	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950678 3950679

Parameter	Units	50412085001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloride	mg/L	22.6	25	25	45.9	46.4	93	95	80-120	1	15	
Fluoride	mg/L	0.23	1	1	1.2	1.2	100	100	80-120	0	15	
Sulfate	mg/L	107	50	50	154	156	95	99	80-120	1	15	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 861781
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005

METHOD BLANK: 3947651 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/10/25 09:17	

LABORATORY CONTROL SAMPLE: 3947652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947653 3947654

Parameter	Units	50411751009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.0	5.1	99	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 861857
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947950 Matrix: Water

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/10/25 08:26	

LABORATORY CONTROL SAMPLE: 3947951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947952 3947953

Parameter	Units	50411767011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862582
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

METHOD BLANK: 3950941 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/15/25 21:38	

LABORATORY CONTROL SAMPLE: 3950942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950943 3950944

Parameter	Units	50412306003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	5.0	5.0	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 863080
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3953228 Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	09/17/25 18:18	

LABORATORY CONTROL SAMPLE: 3953229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3953230 3953231

Parameter	Units	50412404002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	ND	5	5	4.6	5.0	91	100	75-125	9	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 861536
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3946842 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	1000	09/11/25 09:37	
Lithium	ug/L	ND	20.0	09/11/25 09:37	

LABORATORY CONTROL SAMPLE: 3946843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9780	98	80-120	
Lithium	ug/L	1000	981	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3946844 3946845

Parameter	Units	50411685001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium	ug/L	221000	10000	10000	230000	231000	99	107	75-125	0	20	E
Lithium	ug/L	65.2	1000	1000	1000	1010	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862467
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3950428 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	ug/L	ND	1000	09/16/25 14:30	
Lithium	ug/L	ND	20.0	09/16/25 14:30	

LABORATORY CONTROL SAMPLE: 3950429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	ug/L	10000	9260	93	80-120	
Lithium	ug/L	1000	903	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3950430 3950431

Parameter	Units	50412306001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium	ug/L	77100	10000	10000	85500	86000	84	89	75-125	1	20	
Lithium	ug/L	ND	1000	1000	885	927	88	92	75-125	5	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 861811
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947762 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/11/25 05:09	
Arsenic	mg/L	ND	0.0010	09/11/25 05:09	
Barium	mg/L	ND	0.0010	09/11/25 05:09	
Beryllium	mg/L	ND	0.00020	09/11/25 05:09	
Boron	mg/L	ND	0.0050	09/11/25 05:09	N2
Cadmium	mg/L	ND	0.00020	09/11/25 05:09	
Chromium	mg/L	ND	0.0020	09/11/25 05:09	
Cobalt	mg/L	ND	0.0010	09/11/25 05:09	
Lead	mg/L	ND	0.0010	09/11/25 21:14	
Molybdenum	mg/L	ND	0.0010	09/11/25 05:09	
Selenium	mg/L	ND	0.0010	09/11/25 05:09	
Thallium	mg/L	ND	0.0010	09/11/25 21:14	

LABORATORY CONTROL SAMPLE: 3947763

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	103	80-120	
Arsenic	mg/L	0.04	0.040	101	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.039	99	80-120	
Boron	mg/L	0.04	0.043	108	80-120	N2
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.043	107	80-120	
Cobalt	mg/L	0.04	0.043	107	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.041	102	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.042	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947764 3947765

Parameter	Units	50411767004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	ND	0.04	0.04	0.041	0.042	101	104	75-125	3	20	
Arsenic	mg/L	0.0018	0.04	0.04	0.043	0.042	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3947764 3947765

Parameter	Units	50411767004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Barium	mg/L	0.028	0.04	0.04	0.066	0.067	96	97	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.041	100	101	75-125	2	20	
Boron	mg/L	0.022	0.04	0.04	0.065	0.067	108	113	75-125	3	20	N2
Cadmium	mg/L	ND	0.04	0.04	0.039	0.040	97	100	75-125	3	20	
Chromium	mg/L	ND	0.04	0.04	0.043	0.043	106	108	75-125	2	20	
Cobalt	mg/L	ND	0.04	0.04	0.040	0.041	100	103	75-125	3	20	
Lead	mg/L	ND	0.04	0.04	0.042	0.042	104	105	75-125	1	20	
Molybdenum	mg/L	0.0048	0.04	0.04	0.045	0.046	99	103	75-125	3	20	
Selenium	mg/L	ND	0.04	0.04	0.040	0.041	99	102	75-125	3	20	
Thallium	mg/L	ND	0.04	0.04	0.043	0.043	107	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862825
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3952337 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	09/17/25 02:39	
Arsenic	mg/L	ND	0.0010	09/17/25 02:39	
Barium	mg/L	ND	0.0010	09/17/25 02:39	
Beryllium	mg/L	ND	0.00020	09/17/25 02:39	
Boron	mg/L	ND	0.0050	09/17/25 02:39	N2
Cadmium	mg/L	ND	0.00020	09/17/25 02:39	
Chromium	mg/L	ND	0.0020	09/17/25 02:39	
Cobalt	mg/L	ND	0.0010	09/17/25 02:39	
Lead	mg/L	ND	0.0010	09/17/25 02:39	
Molybdenum	mg/L	ND	0.0010	09/17/25 02:39	
Selenium	mg/L	ND	0.0010	09/17/25 02:39	
Thallium	mg/L	ND	0.0010	09/17/25 02:39	

LABORATORY CONTROL SAMPLE: 3952338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.043	108	80-120	
Arsenic	mg/L	0.04	0.042	104	80-120	
Barium	mg/L	0.04	0.041	102	80-120	
Beryllium	mg/L	0.04	0.040	101	80-120	
Boron	mg/L	0.04	0.043	108	80-120	N2
Cadmium	mg/L	0.04	0.041	102	80-120	
Chromium	mg/L	0.04	0.043	107	80-120	
Cobalt	mg/L	0.04	0.043	107	80-120	
Lead	mg/L	0.04	0.042	105	80-120	
Molybdenum	mg/L	0.04	0.041	103	80-120	
Selenium	mg/L	0.04	0.041	102	80-120	
Thallium	mg/L	0.04	0.043	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3952339 3952340

Parameter	Units	50412535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Antimony	mg/L	ND	0.04	0.04	0.046	0.046	116	115	75-125	0	20	
Arsenic	mg/L	1.4 ug/L	0.04	0.04	0.046	0.046	112	111	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3952339 3952340

Parameter	Units	50412535001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Barium	mg/L	127 ug/L	0.04	0.04	0.17	0.17	101	103	75-125	1	20	
Beryllium	mg/L	0.028J ug/L	0.04	0.04	0.042	0.042	105	104	75-125	1	20	CC
Boron	mg/L	5800 ug/L	0.04	0.04	5.7	5.7	-197	-340	75-125	1	20	CC,E,N2, P6
Cadmium	mg/L	ND	0.04	0.04	0.041	0.041	103	102	75-125	1	20	
Chromium	mg/L	0.62J ug/L	0.04	0.04	0.046	0.045	113	111	75-125	1	20	
Cobalt	mg/L	0.72J ug/L	0.04	0.04	0.043	0.043	106	106	75-125	0	20	
Lead	mg/L	0.27J ug/L	0.04	0.04	0.044	0.044	110	110	75-125	0	20	
Molybdenum	mg/L	21.3 ug/L	0.04	0.04	0.066	0.066	112	112	75-125	0	20	
Selenium	mg/L	ND	0.04	0.04	0.042	0.045	105	113	75-125	7	20	
Thallium	mg/L	ND	0.04	0.04	0.046	0.045	114	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 861624
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3947136 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/08/25 09:35	

LABORATORY CONTROL SAMPLE: 3947137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	296	99	80-120	

SAMPLE DUPLICATE: 3947138

Parameter	Units	50411534004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73	71	3	10	

SAMPLE DUPLICATE: 3947139

Parameter	Units	50411534005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57	102	57	10	R1

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 862069
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011

METHOD BLANK: 3948767 Matrix: Water

Associated Lab Samples: 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/10/25 11:00	

LABORATORY CONTROL SAMPLE: 3948768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	282	94	80-120	

SAMPLE DUPLICATE: 3948769

Parameter	Units	50411767006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	378	383	1	10	

SAMPLE DUPLICATE: 3948770

Parameter	Units	50411767007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	466	470	1	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 863213
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306001, 50412306002, 50412306007, 50412306008, 50412306009, 50412306010

METHOD BLANK: 3954077 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306007, 50412306008, 50412306009, 50412306010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/25 08:41	

LABORATORY CONTROL SAMPLE: 3954078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	281	94	80-120	

SAMPLE DUPLICATE: 3954079

Parameter	Units	50412243003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1110	1110	0	10	

SAMPLE DUPLICATE: 3954080

Parameter	Units	50412306001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	351	346	1	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 863215
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004

METHOD BLANK: 3954086 Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/17/25 09:11	

LABORATORY CONTROL SAMPLE: 3954087

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3954088

Parameter	Units	50412693006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	323	323	0	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 863541
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412313005

METHOD BLANK: 3955443 Matrix: Water

Associated Lab Samples: 50412313005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/18/25 12:34	

LABORATORY CONTROL SAMPLE: 3955444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3955445

Parameter	Units	50412389001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2580	2530	2	10	

SAMPLE DUPLICATE: 3955446

Parameter	Units	50412389002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1070	1060	2	10	

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QUALITY CONTROL DATA

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch: 864539
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306011

METHOD BLANK: 3960678 Matrix: Water

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/25/25 09:51	

LABORATORY CONTROL SAMPLE: 3960679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	279	93	80-120	

SAMPLE DUPLICATE: 3960680

Parameter	Units	50412306003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1500	1470	2	10	H1

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW010D-60001 **Lab ID: 50411767001** Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.106 ± 0.330 (0.639) C:NA T:97%**	pCi/L	10/01/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.785 ± 0.414 (0.747) C:87% T:89%**	pCi/L	09/30/25 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.891 ± 0.744 (1.39)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW010S-60001 **Lab ID: 50411767002** Collected: 09/03/25 09:02 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.346 ± 0.324 (0.459) C:NA T:99%**	pCi/L	10/01/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.458 ± 0.368 (0.722) C:79% T:79%**	pCi/L	10/03/25 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.804 ± 0.692 (1.18)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQSW010-20001 **Lab ID: 50411767003** Collected: 09/03/25 09:46 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.425 ± 0.361 (0.447) C:NA T:90%**	pCi/L	10/01/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.808 ± 0.389 (0.654) C:80% T:75%**	pCi/L	10/03/25 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.23 ± 0.750 (1.10)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW06D-60001 **Lab ID: 50411767004** Collected: 09/03/25 11:20 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.284 ± 0.297 (0.419) C:NA T:95%**	pCi/L	10/01/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.518 ± 0.370 (0.722) C:85% T:91%**	pCi/L	09/30/25 11:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.802 ± 0.667 (1.14)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW06S-60001 **Lab ID: 50411767005** Collected: 09/03/25 10:42 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.260 ± 0.307 (0.482) C:NA T:94%**	pCi/L	10/01/25 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.809 ± 0.454 (0.822) C:73% T:87%**	pCi/L	09/30/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.761 (1.30)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW07D-60001 **Lab ID: 50411767006** Collected: 09/04/25 09:30 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.109 ± 0.249 (0.401) C:NA T:98%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.947 ± 0.451 (0.758) C:74% T:86%**	pCi/L	09/30/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.06 ± 0.700 (1.16)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW07S-60001 **Lab ID: 50411767007** Collected: 09/04/25 09:25 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.364 (0.756) C:NA T:95%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.498 ± 0.337 (0.633) C:77% T:90%**	pCi/L	09/30/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.498 ± 0.701 (1.39)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW011D-60001 **Lab ID: 50411767008** Collected: 09/04/25 12:00 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.529 ± 0.552 (0.882) C:NA T:96%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.870 ± 0.422 (0.705) C:75% T:85%**	pCi/L	09/30/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.40 ± 0.974 (1.59)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW011S-60001 **Lab ID: 50411767009** Collected: 09/04/25 12:55 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.340 ± 0.289 (0.358) C:NA T:97%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.812 ± 0.444 (0.800) C:75% T:89%**	pCi/L	09/30/25 14:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.15 ± 0.733 (1.16)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW012D-60001 **Lab ID: 50411767010** Collected: 09/04/25 10:20 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0520 ± 0.270 (0.560) C:NA T:95%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.526 ± 0.546 (1.14) C:76% T:84%**	pCi/L	09/30/25 16:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.578 ± 0.816 (1.70)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW012S-60001 **Lab ID: 50411767011** Collected: 09/04/25 10:50 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.263 ± 0.372 (0.631) C:NA T:93%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.895 ± 0.500 (0.907) C:78% T:86%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16 ± 0.872 (1.54)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW013D-60001 **Lab ID: 50411767012** Collected: 09/03/25 14:50 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.412 ± 0.381 (0.555) C:NA T:94%**	pCi/L	10/01/25 14:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.346 ± 0.400 (0.839) C:79% T:82%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.758 ± 0.781 (1.39)**	pCi/L	10/06/25 11:44	7440-14-4	

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(317)228-3100

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW013S-60001 **Lab ID: 50411767013** Collected: 09/03/25 15:25 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.112 ± 0.466 (0.888) C:NA T:89%**	pCi/L	10/01/25 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.687 ± 0.438 (0.823) C:73% T:85%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.799 ± 0.904 (1.71)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW014D-60001 **Lab ID: 50411767014** Collected: 09/03/25 13:02 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.204 ± 0.424 (0.923) C:NA T:101%**	pCi/L	10/01/25 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.496 ± 0.372 (0.727) C:80% T:90%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.496 ± 0.796 (1.65)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW014S-60001 **Lab ID: 50411767015** Collected: 09/03/25 13:42 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.978 ± 0.671 (0.968) C:NA T:95%**	pCi/L	10/01/25 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.557 ± 0.409 (0.789) C:74% T:86%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.54 ± 1.08 (1.76)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: Duplicate **Lab ID: 50411767016** Collected: 09/03/25 08:00 Received: 09/05/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0546 ± 0.249 (0.507) C:NA T:98%**	pCi/L	10/01/25 14:49	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0685 ± 0.381 (0.873) C:73% T:86%**	pCi/L	09/30/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.123 ± 0.630 (1.38)**	pCi/L	10/06/25 11:44	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW01D-60001 **Lab ID: 50412306001** Collected: 09/10/25 12:35 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0881 ± 0.244 (0.474) C:NA T:110%**	pCi/L	09/29/25 16:35	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.818 ± 0.431 (0.755) C:78% T:85%**	pCi/L	09/25/25 14:38	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.906 ± 0.675 (1.23)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW01S-60001 **Lab ID: 50412306002** Collected: 09/10/25 13:10 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.000 ± 0.304 (0.631) C:NA T:98%**	pCi/L	09/29/25 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.504 ± 0.365 (0.705) C:77% T:89%**	pCi/L	09/25/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.504 ± 0.669 (1.34)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW02D-60001 **Lab ID: 50412306003** Collected: 09/09/25 10:00 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.187 ± 0.367 (0.659) C:NA T:96%**	pCi/L	09/29/25 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.17 ± 0.562 (1.00) C:77% T:83%**	pCi/L	09/25/25 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.929 (1.66)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW02S-60001 **Lab ID: 50412306004** Collected: 09/09/25 10:36 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.719 ± 0.383 (0.331) C:NA T:99%**	pCi/L	09/29/25 16:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.10 ± 0.518 (0.923) C:82% T:89%**	pCi/L	09/25/25 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.82 ± 0.901 (1.25)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW03D-60001 **Lab ID: 50412306005** Collected: 09/09/25 14:10 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.408 ± 0.271 (0.123) C:NA T:101%**	pCi/L	09/29/25 16:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**4.75 ± 1.08 (0.869) C:82% T:87%**	pCi/L	09/25/25 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**5.16 ± 1.35 (0.992)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW03Sa-60001 **Lab ID: 50412306006** Collected: 09/09/25 14:35 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.879 ± 0.453 (0.380) C:NA T:93%**	pCi/L	09/29/25 16:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.01 ± 0.524 (0.957) C:77% T:84%**	pCi/L	09/25/25 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.89 ± 0.977 (1.34)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW04D-60001 **Lab ID: 50412306007** Collected: 09/10/25 09:50 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.29 ± 0.543 (0.444) C:NA T:97%**	pCi/L	09/29/25 16:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.88 ± 0.594 (0.791) C:81% T:87%**	pCi/L	09/25/25 12:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.17 ± 1.14 (1.24)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW04S-60001 **Lab ID: 50412306008** Collected: 09/10/25 10:25 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.479 ± 0.581 (0.963) C:NA T:99%**	pCi/L	09/29/25 16:48	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.10 ± 0.522 (0.912) C:79% T:88%**	pCi/L	09/25/25 12:22	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.58 ± 1.10 (1.88)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW05D-60001 **Lab ID: 50412306009** Collected: 09/10/25 11:45 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**1.45 ± 0.592 (0.520) C:NA T:102%**	pCi/L	09/29/25 16:48	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**3.48 ± 0.856 (0.804) C:80% T:88%**	pCi/L	09/25/25 12:21	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**4.93 ± 1.45 (1.32)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW05S-60001 **Lab ID: 50412306010** Collected: 09/10/25 11:10 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.649 ± 0.475 (0.655) C:NA T:97%**	pCi/L	09/29/25 16:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.68 ± 0.558 (0.783) C:79% T:88%**	pCi/L	09/25/25 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.33 ± 1.03 (1.44)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQSW004-20001 **Lab ID: 50412306011** Collected: 09/09/25 15:20 Received: 09/11/25 08:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.437 ± 0.342 (0.402) C:NA T:89%**	pCi/L	09/29/25 16:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.500 (0.822) C:83% T:80%**	pCi/L	09/25/25 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.63 ± 0.842 (1.22)**	pCi/L	09/29/25 17:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW08D-60001 **Lab ID: 50412313001** Collected: 09/11/25 07:40 Received: 09/11/25 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.482 ± 0.548 (0.892) C:NA T:94%**	pCi/L	10/01/25 12:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.218 ± 0.340 (0.735) C:80% T:89%**	pCi/L	09/29/25 15:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.700 ± 0.888 (1.63)**	pCi/L	10/01/25 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW08S-60001 **Lab ID: 50412313002** Collected: 09/11/25 07:00 Received: 09/11/25 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.420 ± 0.295 (0.142) C:NA T:93%**	pCi/L	10/01/25 12:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.830 ± 0.434 (0.753) C:80% T:81%**	pCi/L	09/29/25 15:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.25 ± 0.729 (0.895)**	pCi/L	10/01/25 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW09D-60001 **Lab ID: 50412313003** Collected: 09/11/25 08:15 Received: 09/11/25 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.724 ± 0.421 (0.449) C:NA T:95%**	pCi/L	10/01/25 12:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.438 ± 0.385 (0.778) C:80% T:87%**	pCi/L	09/29/25 15:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16 ± 0.806 (1.23)**	pCi/L	10/01/25 16:32	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: AR-AQMW09S-60001 **Lab ID: 50412313004** Collected: 09/11/25 08:45 Received: 09/11/25 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.257 ± 0.581 (1.04) C:NA T:95%**	pCi/L	10/01/25 12:56	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.539 ± 0.384 (0.740) C:71% T:91%**	pCi/L	09/29/25 15:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.796 ± 0.965 (1.78)**	pCi/L	10/01/25 16:32	7440-14-4	

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REPORT OF LABORATORY ANALYSIS

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Date: 10/06/2025 04:14 PM

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(317)228-3100

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Sample: Field Blank **Lab ID: 50412313005** Collected: 09/11/25 09:05 Received: 09/11/25 16:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.258 ± 0.441 (0.969) C:NA T:99%**	pCi/L	10/01/25 12:56	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.252 ± 0.302 (0.634) C:80% T:89%**	pCi/L	09/29/25 15:39	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.252 ± 0.743 (1.60)**	pCi/L	10/01/25 16:32	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	771687	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3762183 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.431 ± 0.361 (0.708) C:76% T:77%	pCi/L	10/03/25 12:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	771686	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

METHOD BLANK: 3762182 Matrix: Water

Associated Lab Samples: 50411767001, 50411767002, 50411767003, 50411767004, 50411767005, 50411767006, 50411767007, 50411767008, 50411767009, 50411767010, 50411767011, 50411767012, 50411767013, 50411767014, 50411767015, 50411767016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0792 ± 0.190 (0.368) C:NA T:99%	pCi/L	10/01/25 14:26	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	770880	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412306001, 50412306002

METHOD BLANK: 3758457 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.207 ± 0.215 (0.320) C:NA T:102%	pCi/L	09/29/25 16:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	770881	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011, 50412306001, 50412306002

METHOD BLANK: 3758458 Matrix: Water

Associated Lab Samples: 50412306001, 50412306002, 50412306003, 50412306004, 50412306005, 50412306006, 50412306007, 50412306008, 50412306009, 50412306010, 50412306011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.438 ± 0.356 (0.705) C:77% T:93%	pCi/L	09/25/25 14:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	771205	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3759742 Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0397 ± 0.181 (0.369) C:NA T:103%	pCi/L	10/01/25 12:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

QC Batch	771207	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

METHOD BLANK: 3759743 Matrix: Water

Associated Lab Samples: 50412313001, 50412313002, 50412313003, 50412313004, 50412313005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.139 ± 0.307 (0.750) C:80% T:89%	pCi/L	09/29/25 15:38	

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QUALIFIERS

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Analyte was detected in the continuing calibration blank. Analyte concentration is at least ten times that of the blank. MTM 9/18/25
CC	The continuing calibration for this compound is outside of method control limits. The result is estimated.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
R1	RPD value was outside control limits.

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METHOD CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Parameter	Matrix	Analytical Method	Preparation Method
2540C Total Dissolved Solids	Water	SM 2540C-2020	N/A
6010 MET ICP	Water	SW-846 6010B	SW-846 3010A
6020 MET ICPMS	Water	EPA 6020	EPA 200.2
7470 Mercury	Water	EPA 7470A	EPA 7470A
9056 IC Anions	Water	SW-846 9056A	N/A

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	**AR-AQMW010D-60001**	EPA 9056	862106		
50411767002	**AR-AQMW010S-60001**	EPA 9056	862106		
50411767003	**AR-AQSW010-20001**	EPA 9056	862106		
50411767004	**AR-AQMW06D-60001**	EPA 9056	862106		
50411767005	**AR-AQMW06S-60001**	EPA 9056	862106		
50411767006	**AR-AQMW07D-60001**	EPA 9056	862106		
50411767007	**AR-AQMW07S-60001**	EPA 9056	862106		
50411767008	**AR-AQMW011D-60001**	EPA 9056	862106		
50411767009	**AR-AQMW011S-60001**	EPA 9056	862106		
50411767010	**AR-AQMW012D-60001**	EPA 9056	862106		
50411767011	**AR-AQMW012S-60001**	EPA 9056	862106		
50411767012	**AR-AQMW013D-60001**	EPA 9056	862106		
50411767013	**AR-AQMW013S-60001**	EPA 9056	862106		
50411767014	**AR-AQMW014D-60001**	EPA 9056	862106		
50411767015	**AR-AQMW014S-60001**	EPA 9056	862106		
50411767016	**Duplicate**	EPA 9056	862106		
50412306001	**AR-AQMW01D-60001**	EPA 9056	862517		
50412306002	**AR-AQMW01S-60001**	EPA 9056	862517		
50412306003	**AR-AQMW02D-60001**	EPA 9056	862517		
50412306004	**AR-AQMW02S-60001**	EPA 9056	862517		
50412306005	**AR-AQMW03D-60001**	EPA 9056	862517		
50412306006	**AR-AQMW03Sa-60001**	EPA 9056	862517		
50412306007	**AR-AQMW04D-60001**	EPA 9056	862517		
50412306008	**AR-AQMW04S-60001**	EPA 9056	862517		
50412306009	**AR-AQMW05D-60001**	EPA 9056	862517		
50412306010	**AR-AQMW05S-60001**	EPA 9056	862517		
50412306011	**AR-AQSW004-20001**	EPA 9056	862517		
50412313001	**AR-AQMW08D-60001**	EPA 9056	862493		
50412313002	**AR-AQMW08S-60001**	EPA 9056	862493		
50412313003	**AR-AQMW09D-60001**	EPA 9056	862493		
50412313004	**AR-AQMW09S-60001**	EPA 9056	862493		
50412313005	**Field Blank**	EPA 9056	862493		
50411767001	**AR-AQMW010D-60001**	EPA 3010	861536	EPA 6010	862309
50411767002	**AR-AQMW010S-60001**	EPA 3010	861536	EPA 6010	862309
50411767003	**AR-AQSW010-20001**	EPA 3010	861536	EPA 6010	862309
50411767004	**AR-AQMW06D-60001**	EPA 3010	861536	EPA 6010	862309
50411767005	**AR-AQMW06S-60001**	EPA 3010	861536	EPA 6010	862309
50411767006	**AR-AQMW07D-60001**	EPA 3010	861536	EPA 6010	862309
50411767007	**AR-AQMW07S-60001**	EPA 3010	861536	EPA 6010	862309
50411767008	**AR-AQMW011D-60001**	EPA 3010	861536	EPA 6010	862309
50411767009	**AR-AQMW011S-60001**	EPA 3010	861536	EPA 6010	862309
50411767010	**AR-AQMW012D-60001**	EPA 3010	861536	EPA 6010	862309
50411767011	**AR-AQMW012S-60001**	EPA 3010	861536	EPA 6010	862309
50411767012	**AR-AQMW013D-60001**	EPA 3010	861536	EPA 6010	862309
50411767013	**AR-AQMW013S-60001**	EPA 3010	861536	EPA 6010	862309
50411767014	**AR-AQMW014D-60001**	EPA 3010	861536	EPA 6010	862309
50411767015	**AR-AQMW014S-60001**	EPA 3010	861536	EPA 6010	862309
50411767016	**Duplicate**	EPA 3010	861536	EPA 6010	862309

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	**AR-AQMW01D-60001**	EPA 3010	862467	EPA 6010	863093
50412306002	**AR-AQMW01S-60001**	EPA 3010	862467	EPA 6010	863093
50412306003	**AR-AQMW02D-60001**	EPA 3010	862467	EPA 6010	863093
50412306004	**AR-AQMW02S-60001**	EPA 3010	862467	EPA 6010	863093
50412306005	**AR-AQMW03D-60001**	EPA 3010	862467	EPA 6010	863093
50412306006	**AR-AQMW03Sa-60001**	EPA 3010	862467	EPA 6010	863093
50412306007	**AR-AQMW04D-60001**	EPA 3010	862467	EPA 6010	863093
50412306008	**AR-AQMW04S-60001**	EPA 3010	862467	EPA 6010	863093
50412306009	**AR-AQMW05D-60001**	EPA 3010	862467	EPA 6010	863093
50412306010	**AR-AQMW05S-60001**	EPA 3010	862467	EPA 6010	863093
50412306011	**AR-AQSW004-20001**	EPA 3010	862467	EPA 6010	863093
50412313001	**AR-AQMW08D-60001**	EPA 3010	862467	EPA 6010	863093
50412313002	**AR-AQMW08S-60001**	EPA 3010	862467	EPA 6010	863093
50412313003	**AR-AQMW09D-60001**	EPA 3010	862467	EPA 6010	863093
50412313004	**AR-AQMW09S-60001**	EPA 3010	862467	EPA 6010	863093
50412313005	**Field Blank**	EPA 3010	862467	EPA 6010	863093
50411767001	**AR-AQMW010D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767002	**AR-AQMW010S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767003	**AR-AQSW010-20001**	EPA 200.2	861811	EPA 6020	862255
50411767004	**AR-AQMW06D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767005	**AR-AQMW06S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767006	**AR-AQMW07D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767007	**AR-AQMW07S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767008	**AR-AQMW011D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767009	**AR-AQMW011S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767010	**AR-AQMW012D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767011	**AR-AQMW012S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767012	**AR-AQMW013D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767013	**AR-AQMW013S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767014	**AR-AQMW014D-60001**	EPA 200.2	861811	EPA 6020	862255
50411767015	**AR-AQMW014S-60001**	EPA 200.2	861811	EPA 6020	862255
50411767016	**Duplicate**	EPA 200.2	861811	EPA 6020	862255
50412306001	**AR-AQMW01D-60001**	EPA 200.2	862825	EPA 6020	863180
50412306002	**AR-AQMW01S-60001**	EPA 200.2	862825	EPA 6020	863180
50412306003	**AR-AQMW02D-60001**	EPA 200.2	862825	EPA 6020	863180
50412306004	**AR-AQMW02S-60001**	EPA 200.2	862825	EPA 6020	863180
50412306005	**AR-AQMW03D-60001**	EPA 200.2	862825	EPA 6020	863180
50412306006	**AR-AQMW03Sa-60001**	EPA 200.2	862825	EPA 6020	863180
50412306007	**AR-AQMW04D-60001**	EPA 200.2	862825	EPA 6020	863180
50412306008	**AR-AQMW04S-60001**	EPA 200.2	862825	EPA 6020	863180
50412306009	**AR-AQMW05D-60001**	EPA 200.2	862825	EPA 6020	863180
50412306010	**AR-AQMW05S-60001**	EPA 200.2	862825	EPA 6020	863180
50412306011	**AR-AQSW004-20001**	EPA 200.2	862825	EPA 6020	863180
50412313001	**AR-AQMW08D-60001**	EPA 200.2	862825	EPA 6020	863180
50412313002	**AR-AQMW08S-60001**	EPA 200.2	862825	EPA 6020	863180
50412313003	**AR-AQMW09D-60001**	EPA 200.2	862825	EPA 6020	863180
50412313004	**AR-AQMW09S-60001**	EPA 200.2	862825	EPA 6020	863180
50412313005	**Field Blank**	EPA 200.2	862825	EPA 6020	863180

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	**AR-AQMW010D-60001**	EPA 7470	861781	EPA 7470	862050
50411767002	**AR-AQMW010S-60001**	EPA 7470	861781	EPA 7470	862050
50411767003	**AR-AQSW010-20001**	EPA 7470	861781	EPA 7470	862050
50411767004	**AR-AQMW06D-60001**	EPA 7470	861781	EPA 7470	862050
50411767005	**AR-AQMW06S-60001**	EPA 7470	861781	EPA 7470	862050
50411767006	**AR-AQMW07D-60001**	EPA 7470	861857	EPA 7470	862018
50411767007	**AR-AQMW07S-60001**	EPA 7470	861857	EPA 7470	862018
50411767008	**AR-AQMW011D-60001**	EPA 7470	861857	EPA 7470	862018
50411767009	**AR-AQMW011S-60001**	EPA 7470	861857	EPA 7470	862018
50411767010	**AR-AQMW012D-60001**	EPA 7470	861857	EPA 7470	862018
50411767011	**AR-AQMW012S-60001**	EPA 7470	861857	EPA 7470	862018
50411767012	**AR-AQMW013D-60001**	EPA 7470	861857	EPA 7470	862018
50411767013	**AR-AQMW013S-60001**	EPA 7470	861857	EPA 7470	862018
50411767014	**AR-AQMW014D-60001**	EPA 7470	861857	EPA 7470	862018
50411767015	**AR-AQMW014S-60001**	EPA 7470	861857	EPA 7470	862018
50411767016	**Duplicate**	EPA 7470	861857	EPA 7470	862018
50412306001	**AR-AQMW01D-60001**	EPA 7470	862582	EPA 7470	862938
50412306002	**AR-AQMW01S-60001**	EPA 7470	862582	EPA 7470	862938
50412306003	**AR-AQMW02D-60001**	EPA 7470	862582	EPA 7470	862938
50412306004	**AR-AQMW02S-60001**	EPA 7470	862582	EPA 7470	862938
50412306005	**AR-AQMW03D-60001**	EPA 7470	862582	EPA 7470	862938
50412306006	**AR-AQMW03Sa-60001**	EPA 7470	862582	EPA 7470	862938
50412306007	**AR-AQMW04D-60001**	EPA 7470	862582	EPA 7470	862938
50412306008	**AR-AQMW04S-60001**	EPA 7470	862582	EPA 7470	862938
50412306009	**AR-AQMW05D-60001**	EPA 7470	862582	EPA 7470	862938
50412306010	**AR-AQMW05S-60001**	EPA 7470	862582	EPA 7470	862938
50412306011	**AR-AQSW004-20001**	EPA 7470	862582	EPA 7470	862938
50412313001	**AR-AQMW08D-60001**	EPA 7470	863080	EPA 7470	863380
50412313002	**AR-AQMW08S-60001**	EPA 7470	863080	EPA 7470	863380
50412313003	**AR-AQMW09D-60001**	EPA 7470	863080	EPA 7470	863380
50412313004	**AR-AQMW09S-60001**	EPA 7470	863080	EPA 7470	863380
50412313005	**Field Blank**	EPA 7470	863080	EPA 7470	863380
50411767001	**AR-AQMW010D-60001**	EPA 903.1	771686		
50411767002	**AR-AQMW010S-60001**	EPA 903.1	771686		
50411767003	**AR-AQSW010-20001**	EPA 903.1	771686		
50411767004	**AR-AQMW06D-60001**	EPA 903.1	771686		
50411767005	**AR-AQMW06S-60001**	EPA 903.1	771686		
50411767006	**AR-AQMW07D-60001**	EPA 903.1	771686		
50411767007	**AR-AQMW07S-60001**	EPA 903.1	771686		
50411767008	**AR-AQMW011D-60001**	EPA 903.1	771686		
50411767009	**AR-AQMW011S-60001**	EPA 903.1	771686		
50411767010	**AR-AQMW012D-60001**	EPA 903.1	771686		
50411767011	**AR-AQMW012S-60001**	EPA 903.1	771686		
50411767012	**AR-AQMW013D-60001**	EPA 903.1	771686		
50411767013	**AR-AQMW013S-60001**	EPA 903.1	771686		
50411767014	**AR-AQMW014D-60001**	EPA 903.1	771686		
50411767015	**AR-AQMW014S-60001**	EPA 903.1	771686		
50411767016	**Duplicate**	EPA 903.1	771686		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	AR-AQMW01D-60001	EPA 903.1	770880		
50412306002	AR-AQMW01S-60001	EPA 903.1	770880		
50412306003	AR-AQMW02D-60001	EPA 903.1	770880		
50412306004	AR-AQMW02S-60001	EPA 903.1	770880		
50412306005	AR-AQMW03D-60001	EPA 903.1	770880		
50412306006	AR-AQMW03Sa-60001	EPA 903.1	770880		
50412306007	AR-AQMW04D-60001	EPA 903.1	770880		
50412306008	AR-AQMW04S-60001	EPA 903.1	770880		
50412306009	AR-AQMW05D-60001	EPA 903.1	770880		
50412306010	AR-AQMW05S-60001	EPA 903.1	770880		
50412306011	AR-AQSW004-20001	EPA 903.1	770880		
50412313001	AR-AQMW08D-60001	EPA 903.1	771205		
50412313002	AR-AQMW08S-60001	EPA 903.1	771205		
50412313003	AR-AQMW09D-60001	EPA 903.1	771205		
50412313004	AR-AQMW09S-60001	EPA 903.1	771205		
50412313005	Field Blank	EPA 903.1	771205		
50411767001	AR-AQMW010D-60001	EPA 904.0	771687		
50411767002	AR-AQMW010S-60001	EPA 904.0	771687		
50411767003	AR-AQSW010-20001	EPA 904.0	771687		
50411767004	AR-AQMW06D-60001	EPA 904.0	771687		
50411767005	AR-AQMW06S-60001	EPA 904.0	771687		
50411767006	AR-AQMW07D-60001	EPA 904.0	771687		
50411767007	AR-AQMW07S-60001	EPA 904.0	771687		
50411767008	AR-AQMW011D-60001	EPA 904.0	771687		
50411767009	AR-AQMW011S-60001	EPA 904.0	771687		
50411767010	AR-AQMW012D-60001	EPA 904.0	771687		
50411767011	AR-AQMW012S-60001	EPA 904.0	771687		
50411767012	AR-AQMW013D-60001	EPA 904.0	771687		
50411767013	AR-AQMW013S-60001	EPA 904.0	771687		
50411767014	AR-AQMW014D-60001	EPA 904.0	771687		
50411767015	AR-AQMW014S-60001	EPA 904.0	771687		
50411767016	Duplicate	EPA 904.0	771687		
50412306001	AR-AQMW01D-60001	EPA 904.0	770881		
50412306002	AR-AQMW01S-60001	EPA 904.0	770881		
50412306003	AR-AQMW02D-60001	EPA 904.0	770881		
50412306004	AR-AQMW02S-60001	EPA 904.0	770881		
50412306005	AR-AQMW03D-60001	EPA 904.0	770881		
50412306006	AR-AQMW03Sa-60001	EPA 904.0	770881		
50412306007	AR-AQMW04D-60001	EPA 904.0	770881		
50412306008	AR-AQMW04S-60001	EPA 904.0	770881		
50412306009	AR-AQMW05D-60001	EPA 904.0	770881		
50412306010	AR-AQMW05S-60001	EPA 904.0	770881		
50412306011	AR-AQSW004-20001	EPA 904.0	770881		
50412313001	AR-AQMW08D-60001	EPA 904.0	771207		
50412313002	AR-AQMW08S-60001	EPA 904.0	771207		
50412313003	AR-AQMW09D-60001	EPA 904.0	771207		
50412313004	AR-AQMW09S-60001	EPA 904.0	771207		
50412313005	Field Blank	EPA 904.0	771207		

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50411767001	AR-AQMW010D-60001	Total Radium Calculation	775259		
50411767002	AR-AQMW010S-60001	Total Radium Calculation	775259		
50411767003	AR-AQSW010-20001	Total Radium Calculation	775259		
50411767004	AR-AQMW06D-60001	Total Radium Calculation	775259		
50411767005	AR-AQMW06S-60001	Total Radium Calculation	775259		
50411767006	AR-AQMW07D-60001	Total Radium Calculation	775259		
50411767007	AR-AQMW07S-60001	Total Radium Calculation	775259		
50411767008	AR-AQMW011D-60001	Total Radium Calculation	775259		
50411767009	AR-AQMW011S-60001	Total Radium Calculation	775259		
50411767010	AR-AQMW012D-60001	Total Radium Calculation	775259		
50411767011	AR-AQMW012S-60001	Total Radium Calculation	775259		
50411767012	AR-AQMW013D-60001	Total Radium Calculation	775259		
50411767013	AR-AQMW013S-60001	Total Radium Calculation	775259		
50411767014	AR-AQMW014D-60001	Total Radium Calculation	775259		
50411767015	AR-AQMW014S-60001	Total Radium Calculation	775259		
50411767016	Duplicate	Total Radium Calculation	775259		
50412306001	AR-AQMW01D-60001	Total Radium Calculation	773887		
50412306002	AR-AQMW01S-60001	Total Radium Calculation	773887		
50412306003	AR-AQMW02D-60001	Total Radium Calculation	773887		
50412306004	AR-AQMW02S-60001	Total Radium Calculation	773887		
50412306005	AR-AQMW03D-60001	Total Radium Calculation	773887		
50412306006	AR-AQMW03Sa-60001	Total Radium Calculation	773887		
50412306007	AR-AQMW04D-60001	Total Radium Calculation	773887		
50412306008	AR-AQMW04S-60001	Total Radium Calculation	773887		
50412306009	AR-AQMW05D-60001	Total Radium Calculation	773887		
50412306010	AR-AQMW05S-60001	Total Radium Calculation	773887		
50412306011	AR-AQSW004-20001	Total Radium Calculation	773887		
50412313001	AR-AQMW08D-60001	Total Radium Calculation	774487		
50412313002	AR-AQMW08S-60001	Total Radium Calculation	774487		
50412313003	AR-AQMW09D-60001	Total Radium Calculation	774487		
50412313004	AR-AQMW09S-60001	Total Radium Calculation	774487		
50412313005	Field Blank	Total Radium Calculation	774487		
50411767001	AR-AQMW010D-60001	SM 2540C	861624		
50411767002	AR-AQMW010S-60001	SM 2540C	861624		
50411767003	AR-AQSW010-20001	SM 2540C	861624		
50411767004	AR-AQMW06D-60001	SM 2540C	861624		
50411767005	AR-AQMW06S-60001	SM 2540C	861624		
50411767012	AR-AQMW013D-60001	SM 2540C	861624		
50411767013	AR-AQMW013S-60001	SM 2540C	861624		
50411767014	AR-AQMW014D-60001	SM 2540C	861624		
50411767015	AR-AQMW014S-60001	SM 2540C	861624		
50411767016	Duplicate	SM 2540C	861624		
50411767006	AR-AQMW07D-60001	SM 2540C	862069		
50411767007	AR-AQMW07S-60001	SM 2540C	862069		
50411767008	AR-AQMW011D-60001	SM 2540C	862069		
50411767009	AR-AQMW011S-60001	SM 2540C	862069		
50411767010	AR-AQMW012D-60001	SM 2540C	862069		
50411767011	AR-AQMW012S-60001	SM 2540C	862069		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NIPSCO Schahfer Semi Annual: M
Pace Project No.: 50411767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50412306001	**AR-AQMW01D-60001**	SM 2540C	863213		
50412306002	**AR-AQMW01S-60001**	SM 2540C	863213		
50412306007	**AR-AQMW04D-60001**	SM 2540C	863213		
50412306008	**AR-AQMW04S-60001**	SM 2540C	863213		
50412306009	**AR-AQMW05D-60001**	SM 2540C	863213		
50412306010	**AR-AQMW05S-60001**	SM 2540C	863213		
50412306003	**AR-AQMW02D-60001**	SM 2540C	864539		
50412306004	**AR-AQMW02S-60001**	SM 2540C	864539		
50412306005	**AR-AQMW03D-60001**	SM 2540C	864539		
50412306006	**AR-AQMW03Sa-60001**	SM 2540C	864539		
50412306011	**AR-AQSW004-20001**	SM 2540C	864539		
50412313001	**AR-AQMW08D-60001**	SM 2540C	863215		
50412313002	**AR-AQMW08S-60001**	SM 2540C	863215		
50412313003	**AR-AQMW09D-60001**	SM 2540C	863215		
50412313004	**AR-AQMW09S-60001**	SM 2540C	863215		
50412313005	**Field Blank**	SM 2540C	863541		

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7726 Moller Road, Indianapolis, IN 46268

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LAB USE ONLY

WO# : 50411767

50411767

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 3 3 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 2 1 2

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
~~AR-AQMW01D-60001~~	~~WT~~									X	X	X	X	
~~AR-AQMW01S-60001~~	WT									X	X	X	X	
AR-AQMW010D-60001	WT		9/3/25	~~0800~~ CA	9/3/25	0800	5			X	X	X	X	001
AR-AQMW010S-60001	WT		9/3/25	CA	9/3/25	0901	5			X	X	X	X	002
AR-AQSW010-20001	WT		9/3/25	CA	9/3/25	0946	5			X	X	X	X	003
~~AR-AQMW02D-60001~~	~~WT~~									X	X	X	X	
~~AR-AQMW02S-60001~~	~~WT~~									X	X	X	X	
~~AR-AQMW03D-60001~~	~~WT~~									X	X	X	X	
~~AR-AQMW03Sa-60001~~	~~WT~~									X	X	X	X	
~~AR-AQMW04D-60001~~	~~WT~~									X	X	X	X	

Lab Use Only
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By:
(Printed Name) Chris Crown
Signature: Chris DC

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
4	B	-0.1	0.7	0.6	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Chris DC AGES, Zac	9/4/25 1700	fedex		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
fedex	9/5/25 845	Client Pace	9/5/25 845	[✓] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 4

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
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Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **: 3 3 3 1

Identify Container Preservative Type***: 1 2 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment	Preservation non-conformance identified for sample.
~~AR-AQMW04S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		
~~AR-AQMW05D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		
~~AR-AQMW05S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		
AR-AQMW06D-60001	WT				9/3/25	1120	5			X	X	X	X	004	
AR-AQMW06S-60001	WT				9/3/25	1042	5			X	X	X	X	005	
AR-AQMW07D-60001	WT				9/4/25	0930	5			X	X	X	X	006	
AR-AQMW07S-60001	WT				9/4/25	0925	5			X	X	X	X	007	
~~AR-AQMW08D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		
~~AR-AQMW08S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		
~~AR-AQMW09D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~		

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By:
(Printed Name) Chris Crown
Signature: C/DC

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
4	B	-0.1	0.7	0.6	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
C/DC AGES, Inc	9/4/25 1700	fedex		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
fedex	9/5/25 845	PACE	9/5/25 845	[✓] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

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Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 3 3 1

Identify Container Preservative Type***: 1 2 1 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
~~AR-AQMW09S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
AR-AQMW011D-60001	WT				9/4/25	1200	5			X	X	X	X	008
AR-AQMW011S-60001	WT				9/4/25	1255	5			X	X	X	X	009
AR-AQMW012D-60001	WT				9/4/25	1020	5			X	X	X	X	010
AR-AQMW012S-60001	WT				9/4/25	1050	5			X	X	X	X	011
AR-AQMW013D-60001	WT				9/3/25	1450	5			X	X	X	X	012
AR-AQMW013S-60001	WT				9/3/25	1525	5			X	X	X	X	013
AR-AQMW014D-60001	WT				9/3/25	1302	5			X	X	X	X	014 1302 Sample Time
AR-AQMW014S-60001	WT				9/3/25	1342	5			X	X	X	X	015
~~AR-AQSW004-20001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	~~01~~

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By:
(Printed Name): Chris Crown
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
4	B	-0.1	0.7	0.6	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AGES, Zac	9/4/25 1700	fedex		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
fedex	9/5/25 845	Pace	9/5/25 845	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 3 3 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

Identify Container Preservative Type***: 1 2 1 2

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
~~Field Blank~~	~~WT~~									X	X	X	X	
Duplicate	WT				9/3/25	0800	5			X	X	X	X	

Lab Use Only:
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By:
(Printed Name) Chris Crown
Signature: Christoph Bh

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
4	B	-0.1	0.7	0.6	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AES, Inc	9/4/25 1700	fedex		
fedex	9/5/25 845	QA Pace	9/5/25 845	
				Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
				Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

EM 9/15/25 1205

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A (B) C D E F G H I

Cooler temp should be above freezing to 6°C

2A. **Cooler Temperature(s):** 0.7/0.6 | 0.1/0.0 | 0.5/0.4 | 0.2/0.1

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. **Was the PM notified of out of temp cooler?: (leave blank if samples are in temp)** Yes No

3. **Packing Material:** Bubble Bags Bubble Wrap (None) Other: _____

4. **Ice Type:** (Wet) Blue None

5. **Courier:** (FedEx) UPS Client Pace NOW Jett Other

6. **Custody Seal on Cooler/Box Present:** (Yes) No

(If yes)Seals Intact: (Yes) No *Leave blank if no seals were present*

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			/
8. Short Hold Time Analysis (48 hours or less)?:			/
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	**Time:**		
10. Rush TAT Requested (4 days or less):			/
11. Custody Signatures Present?	/		
12. Containers intact?	/		
13. Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		
14. All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: (HNO3 (<2)) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
15. Residual Chlorine Check (SVOC 625 Pest/PCB 608)			/
16. Residual Chlorine Check (Total/Amenable/Free Cyanide)			/
17. Headspace in **VOA Vials** (>6mm): See Containter Count form for details			/
18. Trip Blank Present?		/	
19. Trip Blank Custody Seals?:			/
20. Extra labels on Terracore Vials? (soils only)			/

Comments: Add Ca to 6010 list per B. Flaherty email. 09/08/25tms

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COC PAGE 1 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

| | | |

COC PAGE 2 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER						Preservative			
			MeOH (only)																											Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			SBS																											Red	Yellow	Green	Black
			DI																														
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																
2																																
3																																
4																2		2	1									WT	✓			
5																2		2	1									WT	✓			
6																2		2	1									WT	✓			
7																2		2	1									WT	✓			
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 3 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) / SBS / DI / R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																2		2	1										WT	✓			
3																2		2	1										WT	✓			
4																2		2	1										WT	✓			
5																2		2	1										WT	✓			
6																2		2	1										WT	✓			
7																2		2	1										WT	✓			
8																2		2	1										WT	✓			
9																2		2	1										WT	✓			
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

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13

COC PAGE 4 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC										OTHER							
			MeOH (only)																												
			SBS																												
			DI																												
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
2																2		2	1										WT	✓			
3																															
4																															
5																															
6																															
7																															
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Container Codes

Glass

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DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
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DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
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CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
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BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
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GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 50412306

50412306

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
AR-AQMW01D-60001	WT				9/10/25	1235	5			X	X	X	X	001
AR-AQMW01S-60001	WT				9/10/25	1310	5			X	X	X	X	002
~~AR-AQMW010D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW010S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQSW010-20001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
AR-AQMW02D-60001	WT				9/9/25	1000	5			X	X	X	X	003
AR-AQMW02S-60001	WT				9/9/25	1036	5			X	X	X	X	004
AR-AQMW03D-60001	WT				9/9/25	1410	5			X	X	X	X	005
AR-AQMW03Sa-60001	WT				9/9/25	1435	5			X	X	X	X	006
AR-AQMW04D-60001	WT				9/10/25	0950	5			X	X	X	X	007

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By: (Printed Name) Chris Crowe
Signature: CJ BL

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
3	G	-.2	2.8	2.6	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
CJ BL ARES, ZAC	9/10/25 1700	FE		
FE	9/11/25 845	PACE	9/11/25 845	Delivered by: [ ] In-Person [ ] Courier ✓ FedEx [ ] UPS [ ] Other
				Page: 1 of 4

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	NiSource_Applied Geology
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026
Customer Project #:	
Project Name:	NIPSCO Schahfer Semi Annual: March 2025
Site Collection Info/Facility ID (as applicable):	

Contact/Report To:	Bethany Flaherty
Phone #:	(614)432-0377
E-Mail:	bflaherty@appliedgeology.net
Cc E-Mail:	
Invoice To:	Accounts Payable
Invoice E-Mail:	ariba.invoices@pacelabs.com
Purchase Order # (if applicable):	PO60482
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl, F, SO4 by 9056	Radium 226+228 (sum)	Sample Comment
AR-AQMW04S-60001	WT				9/10/25	1025	5			X	X	X	X	008
AR-AQMW05D-60001	WT				9/10/25	1145	5			X	X	X	X	009
AR-AQMW05S-60001	WT				9/10/25	1110	5			X	X	X	X	010
~~AR-AQMW06D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW06S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW07D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW07S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW08D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW08S-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	
~~AR-AQMW09D-60001~~	~~WT~~									~~X~~	~~X~~	~~X~~	~~X~~	

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**

AcctNum / Client ID:

Table #:

Profile / Template: **9379-1**

Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By: (Printed Name) Chris Crown

Signature: Christopher D Crown

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	See SCOR				

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AAL AGES, Inc	9/10/25 1900	FE		
FE	9/11/25 845	PACE	9/11/25 845	Delivered by: [ ] In-Person [ ] Courier [✓] FedEx [ ] UPS [ ] Other
				Page: 2 of 4

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
~~AR-AQMW09S-60001~~	WT									X	X	X	X	
~~AR-AQMW011D-60001~~	WT									X	X	X	X	
~~AR-AQMW011S-60001~~	WT									X	X	X	X	
~~AR-AQMW012D-60001~~	WT									X	X	X	X	
~~AR-AQMW012S-60001~~	WT									X	X	X	X	
~~AR-AQMW013D-60001~~	WT									X	X	X	X	
~~AR-AQMW013S-60001~~	WT									X	X	X	X	
~~AR-AQMW014D-60001~~	WT									X	X	X	X	
~~AR-AQMW014S-60001~~	WT									X	X	X	X	
AR-AQSW004-20001	WT				9/9/25	1520	5			X	X	X	X	01

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By: (Printed Name) Chris Crow
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
		See SCR			

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
CJDL AECS, Inc	9/10/25 1700	FE		
FE	9/11/25 845	PACE	9/11/25 845	Delivered by: [ ] In- Person [ ] Courier
				[✓] FedEX [ ] UPS [ ] Other
				Page: 3 of 4

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7726 Moller Road, Indianapolis, IN 46268

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment
~~Field Blank~~	WT									X	X	X	X	
~~Duplicate~~	WT									X	X	X	X	

Specify Container Size **
Identify Container Preservative Type***
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Preservation non-conformance identified for sample.

CJA 9/10/25

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By: (Printed Name) Chris Crow
Signature: CJA

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
		See SCR			

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
CJA AGES, Inc	9/10/25 1700	FE		
FE	9/11/25 845	PACE	9/11/25 845	Delivered by: [ ] In- Person [ ] Courier
				[ ] FedEx [ ] UPS [ ] Other
				Page: 4 of 4

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 9/11/25 1510

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F (G) H I

Cooler temp should be above freezing to 6°C

2A. **Cooler Temperature(s):** 2.8/2.6 | 1.3/1.2 | 2.0/1.8 |

(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

2B. **Was the PM notified of out of temp cooler?: (leave blank if samples are in temp)** Yes No

3. **Packing Material:** Bubble Bags (Bubble Wrap) None Other:

4. **Ice Type:** (Wet) Blue None

5. **Courier:** ~~FedEx~~ UPS Client Pace NOW Jett Other

6. **Custody Seal on Cooler/Box Present:** (Yes) No

(If yes)Seals Intact: (Yes) No *Leave blank if no seals were present*

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			/
8. Short Hold Time Analysis (48 hours or less)?:			/
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	**Time:**		
10. Rush TAT Requested (4 days or less):			/
11. Custody Signatures Present?	/		
12. Containers intact?	/		
13. Sample Label (IDs/Dates/Times) Match COC?: **Except TCs, which only require sample ID**	/		
14. All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: (HNO3 (<2)) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	/		
15. Residual Chlorine **Present** (SVOC 625 Pest/PCB 608)			/
16. Residual Chlorine **Present** (Total/Amenable/Free Cyanide)			/
17. Headspace in **VOA Vials** (>6mm): See Containter Count form for details			/
18. Trip Blank Present?			/
19. Trip Blank Custody Seals?:			/
20. Extra labels on Terracore Vials? (**soils only**)			/

Comments: No Sample- page 4. TW 9/11

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COC PAGE 1 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																2		2	1										WT	✓			
2																2		2	1										WT	✓			
3																																	
4																																	
5																																	
6																2		2	1										WT	✓			
7																↓		↓	↓										↓	↓			
8																																	
9																																	
10																↓		↓	↓										↓	↓			
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

13.1

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COC PAGE 2 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

									AMBER GLASS							PLASTIC									OTHER						Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			MeOH (only)																											Red	Yellow	Green	Black
			SBS																													
			DI																													
COC Line Item	WGFU	WGKU BG1U	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																2		2	1										WT	✓			
2																↓		↓	↓										↓	↓			
3																↓		↓	↓										↓	↓			
4																																	
5																																	
6																																	
7																																	
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Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic	NT2U	Non Teflon 250mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4U	125mL unpreserved plastic
BP1S	1L H2SO4 plastic	BP4N	125mL HNO3 plastic
BP1U	1L unpreserved plastic	BP4S	125mL H2SO4 plastic
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

13.1

13

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 184B
Schahfer Landfill 2025 Groundwater Monitoring Report
Part 2

COC PAGE 3 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

| | | |

Pace® Location Requested (City/State):
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WO# : 50412313

50412313

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)
AR-AQMW01D-60001	WT									X	X	X	X
AR-AQMW01S-60001	WT									X	X	X	X
AR-AQMW010D-60001	WT									X	X	X	X
AR-AQMW010S-60001	WT									X	X	X	X
AR-AQSW010-20001	WT									X	X	X	X
AR-AQMW02D-60001	WT									X	X	X	X
AR-AQMW02S-60001	WT									X	X	X	X
AR-AQMW03D-60001	WT									X	X	X	X
AR-AQMW03Sa-60001	WT									X	X	X	X
AR-AQMW04D-60001	WT									X	X	X	X

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Sample Comment

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By:
(Printed Name) Chris Crown
Signature: CJBC

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
1	G	-0.2	3.2	3.0	Y

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
CJBC AGES, Inc	9/11/25	Courier Pace	9/11/25 1600	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [X] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 4

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**

AcctNum / Client ID:

Table #:

Profile / Template: **9379-1**

Prelog / Bottle Ord. ID: **EZ 3289636**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, LI 6010; Total Metals 6020; Hg 7470	Cl, F, SO4 by 9056	Radium 226+228 (sum)	Sample Comment	Preservation non-conformance identified for sample.
~~AR-AQMW04S-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW05D-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW05S-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW06D-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW06S-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW07D-60001~~	~~WT~~									X	X	X	X		
~~AR-AQMW07S-60001~~	~~WT~~									X	X	X	X		
AR-AQMW08D-60001	WT				9/11/25	0740	5			X	X	X	X	001	
AR-AQMW08S-60001	WT				9/11/25	0700	6			X	X	X	X	002	
AR-AQMW09D-60001	WT				9/11/25	0815	5			X	X	X	X	003	

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: (Printed Name) Chris Crown

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	See COC				

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
46ES, Zn.	9/11/25	Pace	9/11/25 1600	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [X] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 4

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Pace® Location Requested (City/State):
Pace Analytical Indianapolis
7726 Moller Road, Indianapolis, IN 46268

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Scan QR Code for instructions

Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**

AcctNum / Client ID:

Table #:

Profile / Template: **9379-1**

Prelog / Bottle Ord. ID: **EZ 3289636**

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl, F, SO4 by 9056	Radium 226+228 (sum)	Sample Comment	Preservation non-conformance identified for sample.
AR-AQMW09S-60001	WT				9/11/25	0845	5			X	X	X	X	004	
AR-AQMW011D-60001	WT									X	X	X	X		
AR-AQMW011S-60001	WT									X	X	X	X		
AR-AQMW012D-60001	WT									X	X	X	X		
AR-AQMW012S-60001	WT									X	X	X	X		
AR-AQMW013D-60001	WT									X	X	X	X		
AR-AQMW013S-60001	WT									X	X	X	X		
AR-AQMW014D-60001	WT									X	X	X	X		
AR-AQMW014S-60001	WT									X	X	X	X		
AR-AQSW004-20001	WT									X	X	X	X		

Additional Instructions from Pace®:
****6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb**

Collected By: (Printed Name) Chris Crow

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	22 SCW				

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
46ED, Zn	9/11/25		9/11/25 1600	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [X] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 4

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Pace® Location Requested (City/State):
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Company Name:	NiSource_Applied Geology	Contact/Report To:	Bethany Flaherty
Street Address:	2402 Hookstown Grade Road Suite 200 Clinton, PA 15026	Phone #:	(614)432-0377
		E-Mail:	bflaherty@appliedgeology.net
		Cc E-Mail:	
Customer Project #:			
Project Name:	NIPSCO Schahfer Semi Annual: March 2025	Invoice To:	Accounts Payable
		Invoice E-Mail:	ariba.invoices@pacelabs.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	PO60482
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): **Indiana**

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Tina Sayer**
AcctNum / Client ID:
Table #:
Profile / Template: **9379-1**
Prelog / Bottle Ord. ID: **EZ 3289636**

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	Ca, Li 6010; Total Metals 6020; Hg 7470	Cl,F,SO4 by 9056	Radium 226+228 (sum)	Sample Comment	Preservation non-conformance identified for sample.
Field Blank	WT				9/11/25	0905	5			X	X	X	X	005	
~~Duplicate~~	~~WT~~									X	X	X	X		

Additional Instructions from Pace®:
**6020: B,Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb

Collected By: (Printed Name) Chris Crown
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:
	See scan				

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
AECS, Inc	9/11/25	Pace	9/11/25 1600	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [X] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 4

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SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents:

9/11/25 1620 cc

1. **Thermometer:** 1 2 3 4 5 6 7 8 9 A B C D E F (G) H I

Cooler temp should be above freezing to 6°C

2A. **Cooler Temperature(s):** 3.2/3.0 | | | |

(Initial/Corrected) *RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)*

2B. **Was the PM notified of out of temp cooler?: (leave blank if samples are in temp)** Yes No

3. **Packing Material:** Bubble Bags (Bubble Wrap) None Other: _____

4. **Ice Type:** (Wet) Blue None

5. **Courier:** FedEx UPS (Client) Pace NOW Jett Other

6. **Custody Seal on Cooler/Box Present:** Yes (No)

(If yes)Seals Intact: Yes No *Leave blank if no seals were present*

All discrepancies will be written out in the comments section below.

	Yes	No	N/A
7. USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)			X
8. Short Hold Time Analysis (48 hours or less)?:		X	
9. Time 5035A TC placed in Freezer or Short Holds To Lab:	**Time:**		
10. Rush TAT Requested (4 days or less):		X	
11. Custody Signatures Present?	X		
12. Containers intact?	X		
13. Sample Label (IDs/Dates/Times) Match COC?: **Except TCs, which only require sample ID**	X		
14. All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form	X		
15. Residual Chlorine **Present** (SVOC 625 Pest/PCB 608)			X
16. Residual Chlorine **Present** (Total/Amenable/Free Cyanide)			X
17. Headspace in **VOA Vials** (>6mm): See Containter Count form for details			X
18. Trip Blank Present?			X
19. Trip Blank Custody Seals?:			X
20. Extra labels on Terracore Vials? (**soils only**)			X

Comments:

13.1

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COC PAGE 1 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) / SBS / DI / R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
Red	Yellow	Green	Black
HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																2		2	1										WT	✓			
9																↓		↓	↓										↓	↓			
10																↓		↓	↓										↓	↓			
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

13.1

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COC PAGE 3 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																2		2	1										WT	✓			
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

13.1

13

COC PAGE 4 of 4

Sample Container Count

** Place a PINK dot on containers that are out of conformance **

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit			Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																2		2	1										WT	✓			
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

NT2U	Non Teflon 250mL unpreserved plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

13.1

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APPENDIX C

SUMMARY OF ANALYTICAL RESULTS – SEPTEMBER 2020 THROUGH SEPTEMBER 2025

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1S						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.22	6.39	7.08	7.13	6.81	NA	6.94
Field Specific Conductance	µS/cm	285	689	220	236	400	NA	375
Boron, Total	mg/L	0.18	0.18	0.16	0.19	0.26	NA	0.18
Calcium, Total	mg/L	41.6	50.1	38.2	35.8	53.9	NA	49
Chloride	mg/L	1.9	4.8	3.2	2.2	6.5	NA	5.7
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	NA	<0.10
Sulfate	mg/L	37.4	58.3	29.5	28.2	48.2	NA	42.8
Total Dissolved Solids	mg/L	147	173	144	130	213	NA	192
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.0093	0.0083
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.19	0.18
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.014	0.013
Selenium, Total	mg/L	NA	NA	NA	NA	NA	0.0061	0.0046
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.328 ± 1.14 (2.65)	0.987 ± 0.785 (1.58)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1S						
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25
Phase I Constituents								
Field pH	s.u.	6.8	7.27	7.43	7.34	7.75	5.98	7.84
Field Specific Conductance	µS/cm	274	685	374	467	616	370	559
Boron, Total	mg/L	0.13	0.22	0.13	0.2	0.19	0.27	0.19
Calcium, Total	mg/L	43.1	77.7	46.4	55.8	75.9	44.3	48.2
Chloride	mg/L	3.6	85	22.1	17.6	6.3	5.9	5.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	36.9	58.1	37.9	58.9	150	45.7	44.2
Total Dissolved Solids	mg/L	193	424	183	241	329	186	200
Phase II Constituents								
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.001	<0.0010
Barium, Total	mg/L	0.0077	0.018	0.0084	0.013	0.012	0.012	0.011
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.13	0.22	0.13	0.2	0.19	0.27	0.19
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.012	0.013	0.014	0.015	0.011	0.027	0.02
Selenium, Total	mg/L	0.0061	0.0088	0.0047	0.0079	0.0058	0.0053	0.0042
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.523 ± 0.532 (0.965)	1.35 ± 1.09 (1.88)	0.128 ± 0.635 (1.38)	0.458 ± 0.596 (1.10)	0.428 ± 0.632 (1.27)	0.902	0.799

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	
		Sep-25
Phase I Constituents		
Field pH	s.u.	6.54
Field Specific Conductance	µS/cm	320
Boron, Total	mg/L	0.18
Calcium, Total	mg/L	40.3
Chloride	mg/L	4.4
Fluoride	mg/L	<0.10
Sulfate	mg/L	35.6
Total Dissolved Solids	mg/L	165
Phase II Constituents		
Antimony, Total	mg/L	<0.0010
Arsenic, Total	mg/L	<0.0010
Barium, Total	mg/L	0.011
Beryllium, Total	mg/L	<0.00020
Boron, Total	mg/L	0.18
Cadmium, Total	mg/L	<0.00020
Chromium, Total	mg/L	<0.0020
Cobalt, Total	mg/L	<0.0010
Fluoride	mg/L	<0.10
Lead, Total	mg/L	<0.0010
Lithium, Total	mg/L	<0.02
Mercury, Total	mg/L	<0.002
Molybdenum, Total	mg/L	0.022
Selenium, Total	mg/L	0.0054
Thallium, Total	mg/L	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.504

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1D						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.7	6.55	7.22	7.26	7.04	NA	6.94
Field Specific Conductance	µS/cm	506	1010	414	512	566	NA	661
Boron, Total	mg/L	0.16	0.15	0.18	0.27	0.44	NA	13.6
Calcium, Total	mg/L	72.2	73.1	70.5	77.6	84.1	NA	89
Chloride	mg/L	4.3	4	3.1	4.4	3.3	NA	5.3
Fluoride	mg/L	0.36	0.29	0.36	0.31	0.36	NA	0.2
Sulfate	mg/L	51.4	55.1	51.3	52.9	56.1	NA	52.9
Total Dissolved Solids	mg/L	273	269	275	294	326	NA	368
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	0.0011	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.023	0.034
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.98	13.6
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.38	0.2
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0028	0.0013
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.453 ± 1.23 (2.58)	0.375 ± 0.773 (1.58)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-1D							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.29	7.5	7.51	7.67	7.92	6.47	7.14	7.09
Field Specific Conductance	µS/cm	514	632	641	676	618	620	529	453
Boron, Total	mg/L	4.8	9	7.6	0.98	0.32	1.6	2.2	6.9
Calcium, Total	mg/L	84.7	83.3	87.7	96.6	82.8	91.9	88.6	77.1
Chloride	mg/L	7.7	7.9	7.8	3.8	3.8	27.1	23	13.6
Fluoride	mg/L	0.3	0.23	0.23	0.2	0.25	0.23	0.26	0.27
Sulfate	mg/L	44.2	47.8	40.3	43.8	49.2	77.6	70	51.8
Total Dissolved Solids	mg/L	363	354	337	343	314	354	343	351
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010
Barium, Total	mg/L	0.033	0.036	0.036	0.036	0.027	0.029	0.032	0.031
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	4.8	9	7.6	0.98	0.32	1.6	2.2	6.9
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	0.3	0.23	0.23	0.2	0.25	0.23	0.26	0.27
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	0.0019	0.0016	0.0018
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.748 ± 0.619 (1.15)	1.67 ± 1.08 (1.68)	0.884 ± 0.890 (1.51)	1.12 ± 0.796 (1.31)	0.765 ± 0.920 (1.80)	0.448	1.56	0.906

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10S						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.69	6.46	7.31	7.46	7.17	NA	7.63
Field Specific Conductance	µS/cm	592	1110	626	550	471	NA	553
Boron, Total	mg/L	0.07	0.058	0.061	0.078	0.062	NA	0.051
Calcium, Total	mg/L	77.4	75.4	80.7	71.3	59.9	NA	62
Chloride	mg/L	25.8	14.4	28.5	26.7	12.4	NA	11.4
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	NA	<0.10
Sulfate	mg/L	74.5	71.3	83.4	59.7	52.7	NA	61.2
Total Dissolved Solids	mg/L	349	283	351	316	265	NA	317
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.014	0.013
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.057	0.051
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	0.001
Fluoride	mg/L	NA	NA	NA	NA	NA	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	0.0012
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.234 ± 1.22 (2.60)	0.175 ± 0.968 (2.04)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10S							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.87	7.09	8.27	7.83	8.02	6.79	7.69	6.27
Field Specific Conductance	µS/cm	579	426	594	462	539	420	634	524
Boron, Total	mg/L	0.06	0.045	0.053	0.048	0.047	0.047	0.051	0.044
Calcium, Total	mg/L	69	55	77.6	68.3	68	66.3	72	71.7
Chloride	mg/L	20.8	5.9	23.7	5	8.7	7.1	14	34.5
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	62.9	56.7	65.3	49.5	61.7	50.7	73.4	63.1
Total Dissolved Solids	mg/L	329	236	313	259	265	252	320	328
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0043	0.0014	<0.0010
Barium, Total	mg/L	0.019	0.014	0.015	0.015	0.014	0.032	0.017	0.017
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.06	0.045	0.053	0.048	0.047	0.047	0.051	0.044
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	0.0019	<0.0010	0.0011	0.0013	0.0013	0.0082	0.0028	0.001
Fluoride	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.0013	0.0012	<0.0010	0.0011	0.001	0.0012	0.0012	0.0011
Selenium, Total	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	0.0019	<0.0010	0.0012
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.518 ± 0.730 (1.40)	0.273 ± 0.827 (1.75)	0.438 ± 0.625 (1.26)	0.996 ± 1.13 (2.08)	0.661 ± 0.862 (1.78)	2.3	0.662	0.804

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10D						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.92	6.81	7.56	7.63	7.32	NA	7.59
Field Specific Conductance	µS/cm	358	650	367	438	373	NA	382
Boron, Total	mg/L	0.061	0.06	0.058	0.059	0.063	NA	0.066
Calcium, Total	mg/L	48.5	46.5	49.6	60.8	50.8	NA	49.5
Chloride	mg/L	6.4	4.9	7.1	14.1	4.5	NA	4.3
Fluoride	mg/L	0.15	0.15	0.15	0.11	0.15	NA	<0.10
Sulfate	mg/L	31.5	29	33.1	44.6	25.9	NA	26.8
Total Dissolved Solids	mg/L	189	166	200	230	179	NA	220
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.019	0.018
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.063	0.066
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.13	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0013	0.0011
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	1.53 ± 1.13 (1.97)	1.03 ± 0.885 (1.55)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-10D							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.71	7.88	8.35	7.87	7.93	6.96	7.79	7.27
Field Specific Conductance	µS/cm	351	400	424	404	393	325	378	398
Boron, Total	mg/L	0.055	0.065	0.061	0.065	0.06	0.056	0.068	0.059
Calcium, Total	mg/L	52.3	51.6	57.5	53.1	51	50.8	51.1	60.8
Chloride	mg/L	4.7	4.9	5.6	3.8	2.6	3	3.6	18.8
Fluoride	mg/L	0.15	0.15	0.15	0.12	0.15	0.14	0.14	0.13
Sulfate	mg/L	28.6	27.8	24.8	20.4	19.3	11.4	14.3	27.2
Total Dissolved Solids	mg/L	216	210	201	207	182	186	198	253
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	0.02	0.021	0.023	0.02	0.019	0.019	0.021	0.026
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.055	0.065	0.061	0.065	0.06	0.056	0.068	0.059
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	0.15	0.15	0.15	0.12	0.15	0.14	0.14	0.13
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.001	0.0011	0.0011	<0.0010	<0.0010	<0.0010	0.0011	<0.0010
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	1.25 ± 1.05 (1.85)	0.293 ± 0.917 (1.93)	0.168 ± 0.688 (1.44)	0.901 ± 0.694 (0.852)	1.11 ± 0.907 (1.61)	0.761	1.04	0.891

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	SW-10						
		Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
Phase I Constituents								
Field pH	s.u.	7.48	6.75	7.43	7.82	6.94	NA	7.76
Field Specific Conductance	µS/cm	434	823	430	449	485	NA	337
Boron, Total	mg/L	0.015	0.023	0.023	0.027	0.033	NA	0.026
Calcium, Total	mg/L	57.2	66.7	61.8	63.4	60.8	NA	61.2
Chloride	mg/L	12.2	12.6	12	12.7	13.3	NA	13.3
Fluoride	mg/L	0.13	0.13	0.11	0.11	0.17	NA	<0.10
Sulfate	mg/L	62.4	65.4	57.9	58.2	56.3	NA	64.9
Total Dissolved Solids	mg/L	247	256	246	278	259	NA	312
Phase II Constituents								
Antimony, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	NA	NA	0.056	0.051
Beryllium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	NA	NA	0.027	0.026
Cadmium, Total	mg/L	NA	NA	NA	NA	NA	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	NA	NA	0.14	<0.10
Lead, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	NA	NA	<0.020	<0.020
Mercury, Total	mg/L	NA	NA	NA	NA	NA	<0.0020	<0.0020
Molybdenum, Total	mg/L	NA	NA	NA	NA	NA	0.0047	0.0051
Selenium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	NA	NA	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	NA	NA	0.784 ± 1.41 (2.91)	0.537 ± 1.00 (2.02)

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF BACKGROUND ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	SW-10							
		Jun-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents									
Field pH	s.u.	7.86	7.52	8.55	6.81	8.52	6.85	7.99	6.53
Field Specific Conductance	µS/cm	391	527	525	496	527	503	478	427
Boron, Total	mg/L	0.024	0.029	0.024	0.075	0.038	0.027	0.026	0.047
Calcium, Total	mg/L	51.4	62.3	72.2	73.6	62.2	61.2	53.7	61.5
Chloride	mg/L	9.8	12.3	13	11.8	10.6	9.3	6.5	7.8
Fluoride	mg/L	0.14	0.14	0.15	0.13	0.13	0.15	<0.10	0.17
Sulfate	mg/L	44.3	63	67	64.4	56	60.5	77.8	58.7
Total Dissolved Solids	mg/L	225	301	257	284	243	261	221	264
Phase II Constituents									
Antimony, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	0.0013	0.0012	<0.0010	0.0022	<0.0010	0.0015	0.0015	0.0014
Barium, Total	mg/L	0.049	0.067	0.052	0.1	0.0024	0.083	0.056	0.063
Beryllium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	0.024	0.029	0.024	0.075	0.038	0.027	0.026	0.047
Cadmium, Total	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010
Fluoride	mg/L	0.14	0.14	0.15	0.13	0.13	0.15	<0.10	0.17
Lead, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	0.0042	0.005	0.0051	0.0079	0.0023	0.0058	0.0036	0.0066
Selenium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	0.580 ± 0.612 (1.20)	0.502 ± 0.934 (1.95)	0.233 ± 0.698 (1.49)	3.41 ± 2.17 (2.47)	0.0939 ± 0.981 (2.19)	0.298	1.77	1.23

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-2S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.42	7.12	7.19	NA	6.58	7.15	7.94	7.3	8.01	7.41	7.57	7.18
Field Specific Conductance	µS/cm	705	671	975	NA	929	1080	1000	1130	971	1050	645	963
Boron, Total	mg/L	1.3	0.92	2.1	NA	1.3	2.2	1.9	2.9	1.8	2.9	2	3.3
Calcium, Total	mg/L	113	126	145	NA	133	155	113	168	134	157	126	137
Chloride	mg/L	0.81	0.91	1.4	NA	2	2.6	2.7	2.2	2.2	4.8	3.1	3.4
Fluoride	mg/L	0.22	0.17	0.21	NA	0.13	0.2	0.28	0.29	0.25	0.35	0.36	0.43
Sulfate	mg/L	182	201	313	NA	190	372	236	353	251	356	238	332
Total Dissolved Solids	mg/L	435	487	634	NA	584	729	608	698	542	660	535	627
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0031	0.0012	0.0033	0.0021	0.0031	0.0017	0.0065	0.0032	0.0047
Barium, Total	mg/L	NA	NA	NA	0.08	0.059	0.12	0.084	0.11	0.077	0.14	0.075	0.098
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.8	1.3	2.2	1.9	2.9	1.8	2.9	2	3.3
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.19	0.13	0.2	0.28	0.29	0.25	0.35	0.36	0.43
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	0.022	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.019	0.012	0.023	0.013	0.024	0.023	0.019	0.015	0.026
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.05 (2.49)	0.0325 ± 1.45 (3.06)	1.21 ± 1.18 (2.18)	0.236 ± 0.765 (1.62)	0.742 ± 1.04 (1.95)	1.43 ± 1.16 (2.01)	1.44	0.853	1.82

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-2D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.97	8.02	8.12	NA	6.81	7.6	8.62	7.68	8.62	7.32	7.04	6.65
Field Specific Conductance	µS/cm	16000	6303	605	NA	636	4300	3800	8810	2870	2230	835	1480
Boron, Total	mg/L	18.9	13.5	12.4	NA	15.7	14	9.1	19.3	9.3	6.4	10.8	10.5
Calcium, Total	mg/L	199	129	152	NA	126	138	73.2	91.4	63.7	88.1	57.8	68.6
Chloride	mg/L	589	120	99.6	NA	113	101	55.3	243	29	40.5	34.9	30
Fluoride	mg/L	<0.10	0.5	1	NA	0.52	0.72	1.1	1.6	0.91	0.7	1.1	1.1
Sulfate	mg/L	8570	3300	2900	NA	3240	2840	1620	4390	1000	904	934	780
Total Dissolved Solids	mg/L	13800	5120	4570	NA	5160	4210	2480	7410	1740	1540	1620	1500
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.001	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.042	0.032	0.029	0.022	0.016	0.028	0.033	0.037	0.039
Beryllium, Total	mg/L	NA	NA	NA	<0.0004	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	16.2	15.7	14	9.1	19.3	9.3	6.4	10.8	10.5
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.0051	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	0.52	0.72	1.1	1.6	0.91	0.7	1.1	1.1
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.064	0.057	0.053	<0.020	0.0585	0.037	0.033	0.0234	0.0248
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	1.9	1.4	1.2	0.68	2.1	0.7	0.76	1.3	1.3
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	4.86 ± 1.99 (2.73)	2.01 ± 1.22 (2.00)	7.55 ± 2.13 (1.83)	2.13 ± 1.02 (1.24)	2.19 ± 1.27 (2.02)	2.27 ± 1.13 (1.34)	1.98	1.24	1.36

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-3Sa											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.19	7.09	6.95	NA	7.53	7.58	7.31	7.37	7.84	6.5	7.56	7.36
Field Specific Conductance	µS/cm	644	720	883	NA	996	800	794	1210	1090	792	975	1420
Boron, Total	mg/L	1.5	1.3	1.6	NA	1.9	1.5	1.7	2	1.4	1.9	2	1.6
Calcium, Total	mg/L	97.1	108	126	NA	154	135	140	163	149	127	126	134
Chloride	mg/L	0.99	1	1.7	NA	2.1	2.4	2.2	15.4	1.9	1.4	1.1	2
Fluoride	mg/L	0.37	0.28	0.29	NA	0.2	0.24	0.2	0.25	0.26	0.21	0.19	0.26
Sulfate	mg/L	155	208	272	NA	331	289	249	394	343	181	195	233
Total Dissolved Solids	mg/L	411	478	554	NA	840	594	576	775	623	524	536	572
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0066	0.0047	0.0055	0.0086	0.0026	0.0031	0.0029	0.0016	0.0073
Barium, Total	mg/L	NA	NA	NA	0.12	0.13	0.073	0.1	0.11	0.085	0.064	0.071	0.078
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00040
Boron, Total	mg/L	NA	NA	NA	2.8	1.9	1.5	1.7	2	1.4	1.9	2	1.6
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0035	0.0027	0.0043	0.0019	<0.0010	0.0015	0.0032	0.0015
Fluoride	mg/L	NA	NA	NA	0.23	0.2	0.24	0.2	0.25	0.26	0.21	0.19	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.032	0.036	0.023	0.021	0.035	0.03	0.025	0.022	0.026
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	<0.0010	0.0018
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.96 ± 1.24 (1.82)	0.741 ± 1.03 (1.88)	0.873 ± 0.978 (1.86)	1.35 ± 1.13 (1.85)	1.94 ± 1.04 (1.32)	1.06 ± 1.13 (2.01)	0.35	1.56	1.89

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-3D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.49	7.55	7.74	NA	7.95	7.38	7.07	8.06	8.47	7.06	7.73	6.86
Field Specific Conductance	µS/cm	27200	26635	2720	NA	2810	2210	23900	25900	29900	24400	16500	17700
Boron, Total	mg/L	10.6	10.6	10.9	NA	12.4	12.3	11.6	12.2	14.2	14.6	10.1	12
Calcium, Total	mg/L	321	282	302	NA	336	276	290	315	315	318	177	284
Chloride	mg/L	989	776	987	NA	840	1050	1000	802	1060	1030	519	729
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
Sulfate	mg/L	19200	<0.25	17100	NA	13900	17800	16200	14500	17800	17000	9480	12500
Total Dissolved Solids	mg/L	28300	24800	25600	NA	28200	25000	23600	22400	26100	25000	15500	20100
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.002	<0.0050	<0.0050	<0.0020	<0.0020	<0.0050	<0.0050	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0023	0.0021	0.0025	0.0022	0.0023	0.0022	0.002	0.0023	0.0021
Barium, Total	mg/L	NA	NA	NA	0.033	0.034	0.03	0.033	0.029	0.035	0.033	0.023	0.029
Beryllium, Total	mg/L	NA	NA	NA	<0.001	<0.0020	<0.00040	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	17.2	12.4	12.3	11.6	12.2	14.2	14.6	10.1	12
Cadmium, Total	mg/L	NA	NA	NA	<0.0004	<0.0010	<0.0010	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0040	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.005	<0.0050	<0.0050	<0.0020	<0.0030	<0.010	<0.010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.12	0.095	0.07	0.11	0.0738	0.099	0.0776	0.0416	0.0659
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.13	0.11	0.16	0.18	0.26	0.1	0.16	0.33	0.32
Selenium, Total	mg/L	NA	NA	NA	0.0041	0.0046	0.0032	0.0032	0.0037	0.0038	0.0038	0.0021	0.0032
Thallium, Total	mg/L	NA	NA	NA	<0.005	<0.0050	<0.0050	<0.0020	<0.0030	<0.010	<0.010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	6.89 ± 2.66 (2.67)	5.95 ± 1.88 (2.00)	5.45 ± 1.80 (1.99)	3.71 ± 1.31 (1.48)	6.23 ± 1.82 (1.55)	7.69 ± 2.12 (1.77)	4.85	3.71	5.16

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-4S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.27	7.13	7.11	NA	7.67	7.53	7.74	7.34	8.01	6.2	7.45	6.98
Field Specific Conductance	µS/cm	1510	1290	1540	NA	1470	1460	1540	1480	1390	1050	1070	1130
Boron, Total	mg/L	1.5	1.4	2	NA	1.9	1.7	1.6	1.8	1.8	0.8	1.1	2
Calcium, Total	mg/L	151	164	176	NA	197	169	208	182	168	136	136	108
Chloride	mg/L	22.6	11.1	15.1	NA	12.4	12.6	8.5	11.3	7.3	8.1	7.7	11.1
Fluoride	mg/L	0.19	0.16	0.2	NA	<0.10	0.19	0.19	0.18	0.21	0.18	0.18	0.27
Sulfate	mg/L	527	478	583	NA	554	538	531	439	385	208	282	363
Total Dissolved Solids	mg/L	1030	911	1050	NA	1040	976	1030	932	811	650	702	747
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.005	0.0026	0.0052	0.0042	0.0052	0.0029	0.0067	0.0042	0.0054
Barium, Total	mg/L	NA	NA	NA	0.052	0.04	0.044	0.045	0.042	0.035	0.042	0.037	0.036
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	2.3	1.9	1.7	1.6	1.8	1.8	0.8	1.1	2
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.19	0.19	0.18	0.21	0.18	0.18	0.27
Lead, Total	mg/L	NA	NA	NA	<0.001	0.0013	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.1	0.072	0.069	0.037	0.051	0.029	0.062	0.054	0.13
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.0015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.875 ± 1.19 (2.16)	1.41 ± 1.31 (2.33)	1.01 ± 1.04 (1.84)	1.48 ± 0.973 (1.38)	0.895 ± 1.40 (2.60)	1.21 ± 1.26 (2.20)	1.92	0.358	1.58

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-4D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.25	7.28	7.32	NA	7.59	7.07	7.77	7.59	7.49	6.43	7.11	6.96
Field Specific Conductance	µS/cm	4540	3630	4080	NA	4340	3790	4420	4710	3380	3580	3030	2180
Boron, Total	mg/L	4.8	3.8	4.4	NA	5.5	4.9	4.6	5.7	4.9	5	4.7	5.2
Calcium, Total	mg/L	273	198	244	NA	253	269	252	285	224	245	186	235
Chloride	mg/L	139	100	120	NA	126	133	124	128	105	117	92.6	110
Fluoride	mg/L	0.26	0.23	0.26	NA	<0.10	0.19	0.22	0.2	0.23	<1.0	0.24	0.26
Sulfate	mg/L	2400	1480	2060	NA	2240	2480	2140	2100	1720	1840	1500	1780
Total Dissolved Solids	mg/L	3570	2660	3130	NA	3380	3660	3140	3540	2920	2770	2460	2970
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.062	0.051	0.054	0.042	0.047	0.036	0.049	0.038	0.044
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	4.3	5.5	4.9	4.6	5.7	4.9	5	4.7	5.2
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.25	<0.10	0.19	0.22	0.2	0.23	<1.0	0.24	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.026	<0.020	0.023	<0.020	<0.020	<0.02	<0.02	<0.02	0.0204
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.99	1.6	1.4	1.2	1	1.4	1.9	1.6	1.5
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.21 ± 1.42 (2.34)	1.72 ± 1.20 (1.88)	2.37 ± 1.26 (1.72)	1.92 ± 1.06 (1.57)	2.61 ± 1.51 (2.27)	1.42 ± 1.12 (1.94)	3.12	1.65	3.17

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-5S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.11	7.02	7.07	NA	7.46	7.54	7.47	7.43	8.4	6.54	7.43	6.65
Field Specific Conductance	µS/cm	1780	1480	1830	NA	1080	1280	1400	1570	1160	1370	856	1130
Boron, Total	mg/L	5.2	3.8	3.5	NA	3	1.8	2.4	2.4	2.6	3.3	1.5	2.5
Calcium, Total	mg/L	264	270	275	NA	266	173	212	254	197	214	119	197
Chloride	mg/L	19.8	11.6	15.1	NA	13.7	11	14.9	9.4	17.4	28.5	8.6	7.2
Fluoride	mg/L	0.19	0.15	0.2	NA	0.21	0.33	0.3	0.3	0.32	0.33	0.32	0.3
Sulfate	mg/L	829	772	747	NA	643	357	485	722	392	541	189	461
Total Dissolved Solids	mg/L	1400	1290	1370	NA	867	798	953	1120	873	1030	526	908
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0031	0.0027	0.0026	0.0031	0.0045	0.0031	0.0059	0.0045	0.004
Barium, Total	mg/L	NA	NA	NA	0.26	0.23	0.21	0.18	0.19	0.17	0.19	0.11	0.22
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	3.7	3	1.8	2.4	2.4	2.6	3.3	1.5	2.5
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.23	0.21	0.33	0.3	0.3	0.32	0.33	0.32	0.3
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.0020	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.084	0.061	0.022	0.03	0.023	0.034	0.57	0.046	0.037
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.04 ± 1.47 (2.43)	0.608 ± 0.927 (1.73)	2.65 ± 1.59 (2.24)	1.71 ± 0.942 (1.24)	1.93 ± 1.05 (1.34)	2.66 ± 1.40 (2.03)	1.58	0.872	2.33

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-5D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.15	7.1	7.27	NA	7.61	7.01	7.65	7.8	7.98	6.41	6.39	6.09
Field Specific Conductance	µS/cm	4910	5752	4480	NA	7960	403	7400	6820	10200	7300	5510	3130
Boron, Total	mg/L	11.4	13	10.9	NA	15.8	12.9	14.3	14.6	12.1	14.6	15.1	13.9
Calcium, Total	mg/L	273	289	294	NA	421	328	396	366	481	429	398	457
Chloride	mg/L	146	189	110	NA	289	179	232	212	269	280	210	683
Fluoride	mg/L	<0.10	<0.10	0.12	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
Sulfate	mg/L	2330	2980	2230	NA	4310	2910	3640	3300	5080	4770	3890	4850
Total Dissolved Solids	mg/L	3880	5180	3570	NA	6330	4530	5720	5420	7650	6970	5710	8100
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	0.0012	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.042	0.046	0.049	0.056	0.048	0.065	0.044	0.065	0.067
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00060	<0.00020
Boron, Total	mg/L	NA	NA	NA	15.8	15.8	12.9	14.3	14.6	12.1	14.6	15.1	13.9
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00040	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<1	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.041	0.028	0.023	0.023	0.021	0.0419	0.0395	0.0201	0.0405
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.89	0.98	0.58	0.7	0.64	1.5	1.6	2	2.6
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.001	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	3.53 ± 1.76 (2.55)	7.19 ± 3.35 (5.36)	2.81 ± 1.33 (1.69)	3.10 ± 1.36 (1.88)	2.66 ± 1.21 (1.48)	5.23 ± 2.05 (2.54)	4.6	6.63	4.93

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-6S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.12	6.05	6.45	NA	7.05	7.15	7	6.15	6.07	5.02	5.96	5.2
Field Specific Conductance	µS/cm	400	401	353	NA	166	321	341	480	354	302	500	426
Boron, Total	mg/L	0.043	0.033	0.041	NA	0.033	0.026	0.026	0.039	0.037	0.029	0.037	0.045
Calcium, Total	mg/L	50	57.2	42.7	NA	23.5	33.4	62.7	55	48.2	37.2	50	39.3
Chloride	mg/L	5.8	11.1	5.9	NA	4	8.6	3	1.9	5.2	16	15	13.6
Fluoride	mg/L	<0.10	<0.10	0.11	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	155	170	131	NA	59.8	106	178	171	152	87.5	139	111
Total Dissolved Solids	mg/L	229	271	206	NA	162	193	268	272	237	163	262	221
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.044	0.042	0.043	0.078	0.04	0.042	0.045	0.042	0.033
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.048	0.033	0.026	0.026	0.039	0.037	0.029	0.037	0.045
Cadmium, Total	mg/L	NA	NA	NA	0.00047	<0.00020	0.00069	0.00052	0.0013	0.0035	0.0022	0.0014	0.00039
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.028	0.0091	0.029	0.034	0.13	0.17	0.058	0.034	0.0096
Fluoride	mg/L	NA	NA	NA	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.0018	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0011	<0.0010	0.0024	<0.0010	0.0012	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.07 (2.71)	0.329 ± 1.01 (2.27)	1.59 ± 1.12 (1.91)	0.549 ± 0.880 (1.69)	0.980 ± 1.17 (2.09)	0.594 ± 1.01 (2.15)	0.216	1.12	1.07

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-6D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.42	7.02	7.91	NA	7.64	6.88	7.11	7.77	7.36	6.17	6.79	5.02
Field Specific Conductance	µS/cm	499	445	479	NA	538	529	488	565	436	465	596	392
Boron, Total	mg/L	0.024	0.026	0.023	NA	0.025	0.024	0.027	0.027	0.024	0.025	0.03	0.022
Calcium, Total	mg/L	73.9	71.1	69.8	NA	72.5	73.2	76.4	80.5	71.5	71.1	73.2	64.5
Chloride	mg/L	13.6	15.1	15.6	NA	15.4	13.3	13.5	14.2	14.2	15.1	14.3	11.1
Fluoride	mg/L	0.27	0.25	0.3	NA	0.25	0.28	0.27	0.24	0.25	0.25	0.26	0.26
Sulfate	mg/L	78.1	83.3	83	NA	89.3	79.7	74.5	66.4	56	66.3	58.6	78.5
Total Dissolved Solids	mg/L	269	293	286	NA	342	327	275	290	253	267	279	275
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0017	0.0026	0.0023	0.002	0.0012	0.0013	0.0011	0.0015	0.0018
Barium, Total	mg/L	NA	NA	NA	0.03	0.029	0.032	0.031	0.031	0.029	0.028	0.032	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.025	0.025	0.024	0.027	0.027	0.024	0.025	0.03	0.022
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.26	0.25	0.28	0.27	0.24	0.25	0.25	0.26	0.26
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0053	0.0052	0.0059	0.0061	0.0057	0.0047	0.005	0.0042	0.0048
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.367 ± 1.12 (2.52)	0.519 ± 0.979 (1.96)	0.640 ± 0.829 (1.60)	0.0736 ± 0.686 (1.37)	0.806 ± 0.981 (1.81)	0.952 ± 1.46 (2.62)	0.459	1.14	0.802

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-7S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.54	6.77	7.49	NA	6.79	7.29	6.91	6.97	7.06	6.1	6.31	5.78
Field Specific Conductance	µS/cm	419	497	536	NA	607	584	538	537	473	670	846	684
Boron, Total	mg/L	0.034	0.021	0.029	NA	0.023	0.032	0.019	0.032	0.02	0.03	0.022	0.034
Calcium, Total	mg/L	51.4	62.2	69.3	NA	65.6	64.8	64.5	62.6	67.2	80.5	87	88.4
Chloride	mg/L	4	8.5	10.2	NA	5.4	10.5	5.4	4	3.2	8.3	5.8	4.9
Fluoride	mg/L	0.28	0.18	0.31	NA	0.17	0.28	0.24	0.26	0.17	0.22	0.17	0.24
Sulfate	mg/L	71.8	98.8	104	NA	135	123	117	90.7	122	185	211	221
Total Dissolved Solids	mg/L	237	285	342	NA	401	340	286	285	292	402	447	466
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Arsenic, Total	mg/L	NA	NA	NA	0.0014	0.0014	0.0015	0.0012	0.0015	0.0011	0.0011	0.0012	0.0015
Barium, Total	mg/L	NA	NA	NA	0.052	0.04	0.07	0.047	0.051	0.037	0.082	0.072	0.092
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.026	0.023	0.032	0.019	0.032	0.02	0.03	0.022	0.034
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.004	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0036	0.0021	0.0019	0.0016	0.0045	0.0026	0.0023	0.0028	0.0024
Fluoride	mg/L	NA	NA	NA	0.23	0.17	0.28	0.24	0.26	0.17	0.22	0.17	0.24
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0035	0.0029	0.0042	0.0027	0.0049	0.0027	0.0037	0.0023	0.0038
Selenium, Total	mg/L	NA	NA	NA	0.0011	0.002	<0.0010	0.0011	<0.0010	0.0016	0.0011	0.0012	0.0013
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.136 ± 1.15 (2.56)	1.09 ± 1.01 (1.89)	1.20 ± 1.12 (2.07)	0.438 ± 0.809 (1.70)	1.08 ± 1.46 (2.73)	0.444 ± 0.848 (1.74)	0.639	2.29	0.498

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-7D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.12	7.12	7.63	NA	7	7.06	6.93	7.14	7.35	6.62	6.97	6.05
Field Specific Conductance	µS/cm	812	1090	1160	NA	251	693	556	615	775	987	1940	601
Boron, Total	mg/L	0.038	0.036	0.036	NA	0.039	0.035	0.035	0.037	0.036	0.034	0.1	0.036
Calcium, Total	mg/L	121	107	112	NA	111	95	109	95	98.3	115	119	84.3
Chloride	mg/L	19.2	39.6	37.6	NA	39.4	29.9	31.8	28	28.8	24.2	73.1	19
Fluoride	mg/L	0.16	0.13	0.18	NA	<0.10	0.16	0.16	0.13	0.13	0.14	0.14	0.16
Sulfate	mg/L	218	299	373	NA	330	225	207	207	206	321	645	95.7
Total Dissolved Solids	mg/L	554	727	787	NA	848	586	635	585	521	637	1290	378
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0096	0.0073	0.016	0.018	0.0083	0.0064	0.0082	0.0076	0.011
Barium, Total	mg/L	NA	NA	NA	0.047	0.042	0.039	0.048	0.043	0.046	0.046	0.051	0.039
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.035	0.039	0.035	0.035	0.037	0.036	0.034	0.1	0.036
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.16	0.16	0.13	0.13	0.14	0.14	0.16
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0049	0.0076	0.0068	0.0048	0.0057	0.0044	0.0042	0.0053	0.0043
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.416 ± 1.33 (2.78)	1.56 ± 1.20 (2.04)	1.40 ± 1.06 (1.85)	0.594 ± 1.19 (2.34)	1.13 ± 1.06 (1.73)	0.636 ± 0.828 (1.60)	1.18	1.48	1.06

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-8S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	8.24	7.99	9.01	NA	7.98	7.48	6.83	7.55	8.01	7.02	7.42	7.35
Field Specific Conductance	µS/cm	262	265	288	NA	328	275	208	264	215	207	143	220
Boron, Total	mg/L	0.031	0.024	0.027	NA	0.024	0.028	0.025	0.024	0.023	0.027	0.031	0.029
Calcium, Total	mg/L	30.3	31.2	34.9	NA	31.9	29.8	28.1	31	27.4	25.5	20.4	28.5
Chloride	mg/L	11.1	10.1	10.2	NA	10.2	9.5	8.8	8.6	8.9	6.6	2.9	5.3
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sulfate	mg/L	18.2	19.7	28.6	NA	24.2	21.2	20.3	22.7	19.3	18.6	17.5	28.5
Total Dissolved Solids	mg/L	178	155	185	NA	160	152	123	144	119	116	85	130
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.0045	0.0041	0.007	0.0067	0.013	0.0046	0.0093	0.0067	0.0042
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.026	0.024	0.028	0.025	0.024	0.023	0.027	0.031	0.029
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.0002	<0.00020	0.00036	<0.00020	0.00052	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	0.002	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.000 ± 1.16 (2.62)	0.266 ± 1.12 (2.42)	0.000 ± 1.12 (2.68)	1.42 ± 1.09 (1.83)	2.05 ± 1.09 (1.26)	0.634 ± 1.30 (2.64)	1.02	0.24	1.25

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-8D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.29	7.53	8.51	NA	7.52	7.26	6.85	7.16	7.53	6.83	7.74	7.14
Field Specific Conductance	µS/cm	451	419.5	424	NA	451	387	415	424	381	401	433	357
Boron, Total	mg/L	0.21	0.26	0.26	NA	0.23	0.31	0.27	0.38	0.27	0.27	0.24	0.37
Calcium, Total	mg/L	57	52.8	52	NA	55.9	48	54.2	50	53.2	52.2	55.6	49.8
Chloride	mg/L	8.6	8.1	7.8	NA	8.3	8	8.7	7.7	7.7	8.5	8	7.7
Fluoride	mg/L	0.14	0.13	0.2	NA	<0.10	0.17	0.16	0.16	0.13	0.15	0.15	0.17
Sulfate	mg/L	39.2	31.9	33.4	NA	37	26.1	32.4	24.4	32.3	31.7	35.4	26.5
Total Dissolved Solids	mg/L	235	239	234	NA	235	221	221	224	228	222	241	229
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.036	0.04	0.039	0.044	0.04	0.044	0.039	0.047	0.04
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.35	0.23	0.31	0.27	0.38	0.27	0.27	0.24	0.37
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	<0.10	0.17	0.16	0.16	0.13	0.15	0.15	0.17
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0022	0.0029	0.0024	0.0027	0.0024	0.0026	0.0026	0.003	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.135 ± 1.03 (2.36)	0.994 ± 1.15 (2.15)	0.957 ± 1.03 (1.78)	0.412 ± 0.842 (1.90)	1.31 ± 1.12 (1.83)	0.183 ± 1.08 (2.23)	0.597	1.92	0.7

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-9S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.49	7.31	8.69	NA	8.36	7.05	6.9	7.12	7.61	6.8	7.43	6.9
Field Specific Conductance	µS/cm	607	546	535	NA	602	625	498	541	478	562	950	417
Boron, Total	mg/L	0.063	0.055	0.068	NA	0.087	0.073	0.069	0.077	0.092	0.075	0.072	0.025
Calcium, Total	mg/L	81.7	74.7	73.5	NA	71	88.8	69	76.7	72.4	74.6	82.2	54.6
Chloride	mg/L	8.2	6.2	7	NA	7.7	10.1	10.7	8.8	8.3	8.9	9.7	16.3
Fluoride	mg/L	<0.10	<0.10	0.11	NA	0.11	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	0.41
Sulfate	mg/L	78.9	69.8	74.5	NA	66.8	98.2	67.7	72.4	73.3	73.4	91.2	45.4
Total Dissolved Solids	mg/L	344	307	300	NA	297	354	291	323	295	299	345	279
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.001	0.0011	0.0014	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.063	0.062	0.086	0.061	0.076	0.07	0.081	0.087	0.049
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.069	0.087	0.073	0.069	0.077	0.092	0.075	0.072	0.025
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0023	0.0036	0.0039	0.0036	0.0014	0.0015	0.0027	<0.0010
Fluoride	mg/L	NA	NA	NA	0.15	0.11	<0.10	0.15	<0.10	<0.10	<0.10	<0.10	0.41
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0022	0.0024	0.0026	0.0024	0.0024	0.0027	0.0026	0.0026	0.003
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.741 ± 1.22 (2.46)	0.755 ± 0.982 (1.88)	0.677 ± 1.04 (1.97)	1.19 ± 0.961 (1.53)	0.468 ± 0.937 (1.80)	0.385 ± 1.14 (2.28)	1.07	1.06	0.796

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-9D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.99	7.68	8.44	NA	7.62	7.31	6.86	7.31	7.7	6.94	5.05	6.5
Field Specific Conductance	µS/cm	518	553	551	NA	629	504	557	571	525	539	786	500
Boron, Total	mg/L	0.33	0.63	0.34	NA	1.1	1.3	1.5	0.26	0.27	0.37	0.41	1.6
Calcium, Total	mg/L	61.6	54.7	64	NA	49.1	43.7	45.3	69.3	76.7	65.4	66.5	44
Chloride	mg/L	7.9	9.9	9.9	NA	11.8	14	15.8	8.7	9.5	9.2	9.4	17.8
Fluoride	mg/L	0.14	0.22	0.2	NA	0.19	0.35	0.4	<0.10	<0.10	0.14	0.18	0.41
Sulfate	mg/L	55.3	42.4	64.9	NA	51.1	25.4	7.4	66.3	96.8	60.9	67.5	1.8
Total Dissolved Solids	mg/L	290	283	324	NA	302	299	290	309	333	299	300	318
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.045	0.049	0.047	0.048	0.067	0.075	0.056	0.06	0.047
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.7	1.1	1.3	1.5	0.26	0.27	0.37	0.41	1.6
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.37	0.19	0.35	0.4	<0.10	<0.10	0.14	0.18	0.41
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	0.053	0.037	0.04	0.048	<0.020	<0.02	0.0245	<0.02	0.0438
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0031	0.0025	0.0033	0.0037	0.0024	0.0024	0.0024	0.0026	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.620 ± 1.42 (2.95)	1.25 ± 1.16 (2.19)	0.294 ± 0.856 (1.75)	1.32 ± 0.990 (1.56)	0.490 ± 1.28 (2.61)	0.337 ± 1.13 (2.22)	0.884	0.568	1.16

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-11S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.62	7.23	7.85	NA	8.2	7.02	7.19	7.46	7.83	6.58	7.16	6.87
Field Specific Conductance	µS/cm	696	685	607	NA	690	660	715	618	744	713	816	863
Boron, Total	mg/L	0.054	0.042	0.051	NA	0.049	0.053	0.039	0.054	0.052	0.053	0.035	0.067
Calcium, Total	mg/L	90	87.5	86.3	NA	87.4	89.5	88.2	91.8	87	96.4	84.1	69.9
Chloride	mg/L	18	12.7	13.2	NA	12.3	19.2	11.9	19.5	16.3	11	33.1	9.7
Fluoride	mg/L	0.19	<0.10	0.2	NA	0.11	0.19	0.16	0.17	0.14	0.16	0.19	0.27
Sulfate	mg/L	81.1	42.5	88.4	NA	73.4	86.2	34.3	106	78.6	119	333	46.8
Total Dissolved Solids	mg/L	361	353	351	NA	398	382	367	398	380	391	767	339
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.032	0.051	0.04	0.097	0.029	0.034	0.033	0.033	0.053
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.049	0.049	0.053	0.039	0.054	0.052	0.053	0.035	0.067
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	0.0049	0.0024	0.0099	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Fluoride	mg/L	NA	NA	NA	0.15	0.11	0.19	0.16	0.17	0.14	0.16	0.19	0.27
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.003	0.0034	0.0064	0.0037	0.0068	0.0039	0.01	0.0044	0.0024
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.281 ± 1.02 (2.39)	0.874 ± 0.913 (1.59)	1.53 ± 1.02 (1.63)	0.862 ± 0.957 (1.69)	0.752 ± 0.960 (1.88)	0.598 ± 1.17 (2.52)	0.391	0.81	1.15

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-11D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.24	7.31	7.57	NA	7.61	7.26	7.17	7.1	8.31	6.61	7.53	6.31
Field Specific Conductance	µS/cm	27400	33035	26700	NA	2660	1128	1240	24600	32200	1060	1470	2210
Boron, Total	mg/L	6.1	8.4	7.1	NA	7.2	6.4	8.2	10	12.4	4.1	0.36	0.73
Calcium, Total	mg/L	534	386	366	NA	351	381	306	379	353	234	65.5	111
Chloride	mg/L	1110	1120	1120	NA	1030	1060	852	1110	1100	264	24	74
Fluoride	mg/L	<0.10	<0.10	<0.10	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.15	0.13
Sulfate	mg/L	17000	<0.25	17500	NA	16200	17100	13800	18500	18200	4580	41	1060
Total Dissolved Solids	mg/L	28500	30500	27900	NA	26200	23600	25600	29200	27500	8340	229	1870
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0020	<0.0050	<0.0050	<0.0050	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	0.0026	0.0031	0.0071	0.0037	0.0032	0.0027	0.002	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.034	0.022	0.044	0.041	0.03	0.025	0.1	0.04	0.052
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.0020	<0.00040	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.35	7.2	6.4	8.2	10	12.4	4.1	0.36	0.73
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.0010	<0.00040	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	0.0021	<0.010	0.0024	<0.0040	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	<0.0010	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.15	0.13
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	0.14	0.14	0.17	0.163	0.16	0.0502	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0059	0.018	0.017	0.022	0.024	0.026	0.013	0.0046	0.0044
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0046	0.0039	0.0041	0.0051	0.0043	0.0017	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.07 ± 1.62 (3.24)	5.41 ± 1.84 (1.98)	3.95 ± 1.47 (1.77)	0.593 ± 1.04 (1.99)	5.15 ± 1.68 (1.68)	2.34 ± 1.82 (2.93)	3.77	0.5	1.4

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-12S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.51	6.99	7.94	NA	8.8	7.09	7.1	7.51	7.63	6.67	6.67	6.91
Field Specific Conductance	µS/cm	496	348.1	439	NA	587	587	1580	320	513	488	470	520
Boron, Total	mg/L	0.12	0.064	0.093	NA	0.074	0.094	0.068	0.079	0.067	0.08	0.068	0.11
Calcium, Total	mg/L	56.4	45.3	54.2	NA	53.2	71.3	43	69.8	60.2	59.3	49.9	50.6
Chloride	mg/L	9.3	11.7	8.5	NA	3	10.6	12.8	6.3	6.4	12.2	15.8	11.9
Fluoride	mg/L	0.42	0.4	0.42	NA	0.27	0.5	0.36	0.37	0.3	0.46	0.32	0.44
Sulfate	mg/L	56.7	22.9	42.3	NA	28.2	89.4	34.1	97.4	53.3	62.7	24.8	40.8
Total Dissolved Solids	mg/L	259	188	232	NA	341	335	201	330	266	246	200	237
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.0013	<0.0010	<0.0010	<0.0010	0.0011	<0.0010	0.0012
Barium, Total	mg/L	NA	NA	NA	0.088	0.082	0.096	0.085	0.07	0.076	0.06	0.076	0.055
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.092	0.074	0.094	0.068	0.079	0.067	0.08	0.068	0.11
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.00034	0.00029	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.011	0.014	0.018	0.019	<0.0010	<0.0010	0.0012	0.0031	<0.0010
Fluoride	mg/L	NA	NA	NA	0.31	0.27	0.5	0.36	0.37	0.3	0.46	0.32	0.44
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.006	0.007	0.029	0.0084	0.008	0.0046	0.015	0.0049	0.017
Selenium, Total	mg/L	NA	NA	NA	0.0013	<0.0010	0.0014	0.0019	<0.0010	<0.0010	0.001	<0.0010	0.0012
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	2.06 ± 1.38 (2.31)	0.900 ± 0.999 (1.76)	1.43 ± 1.06 (1.78)	1.45 ± 0.894 (1.02)	1.01 ± 0.866 (1.46)	0.405 ± 1.19 (2.40)	1.22	1.18	1.16

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-12D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.25	7.25	7.73	NA	6.69	7.02	7.22	7.04	8.16	6.68	7.55	6.24
Field Specific Conductance	µS/cm	24200	27839	25200	NA	2890	1310	2890	2440	27600	1510	3200	2780
Boron, Total	mg/L	5.1	8.7	7.9	NA	7.5	6.6	8.6	8.4	10.9	0.36	5.3	0.96
Calcium, Total	mg/L	514	435	453	NA	452	318	454	429	440	107	433	135
Chloride	mg/L	801	877	948	NA	937	878	912	667	875	40.1	471	110
Fluoride	mg/L	<0.10	<0.10	<1.0	NA	<1.0	<1.0	<1.0	<1.0	<1.0	0.17	<0.10	0.2
Sulfate	mg/L	14000	<0.25	16000	NA	16100	15700	15800	12700	15500	515	8950	1470
Total Dissolved Solids	mg/L	24900	28600	24800	NA	23900	22100	21900	22800	24100	952	11800	2480
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0050	<0.0020	<0.0020	<0.0020	<0.0050	<0.0010	<0.0020	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	0.002	0.0022	0.003	0.0032	0.0022	<0.0010	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.055	0.022	0.042	0.039	0.041	0.021	0.026	0.056	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.0020	<0.00040	<0.00040	<0.0010	<0.0010	<0.00020	<0.00040	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.3	7.5	6.6	8.6	8.4	10.9	0.36	5.3	0.96
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.0010	<0.00040	<0.00040	<0.00040	<0.0010	<0.00020	<0.00040	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.020	0.0028	<0.0040	<0.0040	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0020	0.0013	<0.0020	<0.0020	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.12	<1.0	<1.0	<1.0	<1.0	<1.0	0.17	<0.10	0.2
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.010	<0.0050	0.0026	<0.0050	<0.010	<0.0010	<0.0020	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	0.064	0.042	0.085	0.0388	0.0673	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.027	0.14	0.12	0.19	0.18	0.31	0.025	0.14	0.031
Selenium, Total	mg/L	NA	NA	NA	<0.001	0.0037	0.0024	0.0032	0.0037	0.0027	<0.0010	0.0017	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.010	<0.0050	<0.0020	<0.0050	<0.010	<0.0010	<0.0020	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.69 ± 1.25 (2.10)	2.98 ± 1.26 (1.73)	4.06 ± 1.73 (2.23)	0.954 ± 0.885 (1.64)	3.81 ± 1.34 (1.37)	3.22 ± 1.35 (1.71)	0.707	0.928	0.578

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-13S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.47	7.31	7.22	NA	7.61	7.43	7.04	7.52	7.28	6.42	7.14	6.4
Field Specific Conductance	µS/cm	455	20434	479	NA	302	518	488	540	430	415	437	549
Boron, Total	mg/L	0.051	0.042	0.047	NA	0.037	0.062	0.034	0.045	0.041	0.044	0.032	0.052
Calcium, Total	mg/L	50.4	53.6	56.3	NA	59.7	60.2	52.8	57	57.9	56.7	47.6	56.7
Chloride	mg/L	15	13.2	16.6	NA	15.8	10.2	13.5	14.6	12.7	8.5	19.6	14.5
Fluoride	mg/L	0.26	0.18	0.24	NA	0.18	0.21	0.24	0.21	0.13	0.15	0.24	0.24
Sulfate	mg/L	63.9	64.4	72.5	NA	71.4	153	54.5	82.4	73.2	85.9	61.8	75.7
Total Dissolved Solids	mg/L	247	229	231	NA	315	292	248	288	267	252	225	283
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0027	0.0024	0.004	0.002	0.0019	0.0016	0.0095	0.0014	0.0033
Barium, Total	mg/L	NA	NA	NA	0.11	0.11	0.061	0.11	0.068	0.073	0.062	0.12	0.072
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.046	0.037	0.062	0.034	0.045	0.041	0.044	0.032	0.052
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0099	0.021	0.021	0.02	0.0039	0.0086	0.072	0.021	0.0088
Fluoride	mg/L	NA	NA	NA	0.2	0.18	0.21	0.24	0.21	0.13	0.15	0.24	0.24
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0048	0.0035	0.0094	0.0033	0.0071	0.0076	0.0079	0.0019	0.0082
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.804 ± 1.41 (2.80)	0.561 ± 0.991 (2.23)	0.950 ± 1.06 (1.97)	0.655 ± 0.826 (1.58)	1.32 ± 0.947 (1.57)	0.602 ± 1.48 (2.93)	0.899	1.46	0.799

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-13D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.73	7.00	7.60	NA	6.93	7.09	7.08	8.25	7.25	6.95	7.53	5.72
Field Specific Conductance	µS/cm	912	403	1040	NA	254	1030	984	5440	5560	20900	629	1160
Boron, Total	mg/L	2.7	10.6	3.8	NA	1.1	0.99	0.3	1.8	1.9	11.7	0.34	1.1
Calcium, Total	mg/L	192	480	399	NA	130	160	82.3	115	436	487	69.5	52.4
Chloride	mg/L	211	795	325	NA	79.4	120	35.5	169	214	876	24.1	80.4
Fluoride	mg/L	<0.10	<0.10	<1.0	NA	0.13	0.14	0.17	0.31	<0.10	<1.0	<0.10	0.29
Sulfate	mg/L	3130	12100	5620	NA	926	873	287	2230	3460	13900	178	868
Total Dissolved Solids	mg/L	5400	21000	8940	NA	1760	2320	628	3670	5420	21300	463	1600
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	0.0045
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010
Barium, Total	mg/L	NA	NA	NA	0.03	0.026	0.052	0.037	0.041	0.043	0.022	0.053	0.045
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.2	1.1	0.99	0.3	1.8	1.9	11.7	0.34	1.1
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	<0.1	0.13	0.14	0.17	0.31	<0.10	<1.0	<0.10	0.29
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0050	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	0.0553	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.22	0.19	0.24	0.055	0.43	0.49	2.1	0.038	0.16
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0033	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0050	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.308 ± 1.05 (2.22)	0.754 ± 0.811 (1.45)	0.940 ± 0.953 (1.72)	0.738 ± 0.950 (1.77)	2.34 ± 1.25 (1.88)	1.24 ± 1.16 (1.97)	4.3	1.52	0.758

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-14S											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	6.5	6.38	6.2	NA	6.14	7.12	7.83	6.7	6.98	6.8	6.57	5.46
Field Specific Conductance	µS/cm	261	318	378	NA	334	399	365	440	360	482	480	477
Boron, Total	mg/L	0.031	0.022	0.03	NA	0.024	0.03	0.024	0.028	0.023	0.028	0.021	0.032
Calcium, Total	mg/L	29.3	39	39.1	NA	33.2	44.9	39.5	45.1	48	45.3	45.2	40.7
Chloride	mg/L	7.4	9.6	7.7	NA	6.3	8.8	4.5	4.3	7.3	13.8	18.1	14.5
Fluoride	mg/L	0.13	0.13	0.15	NA	0.11	0.16	0.15	0.16	0.13	0.26	0.12	0.19
Sulfate	mg/L	47.3	72.7	59.7	NA	38.4	89.7	50.1	55.9	56.4	111	91.4	75.5
Total Dissolved Solids	mg/L	170	212	207	NA	196	254	195	241	233	225	221	245
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0011
Barium, Total	mg/L	NA	NA	NA	0.13	0.11	0.13	0.079	0.14	0.093	0.08	0.11	0.1
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.03	0.024	0.03	0.024	0.028	0.023	0.028	0.021	0.032
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	0.00022	<0.00020	<0.00020	<0.00020	0.0003	0.00021	0.00021
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.016	0.029	0.029	0.019	0.023	0.016	0.038	0.028	0.036
Fluoride	mg/L	NA	NA	NA	0.1	0.11	0.16	0.15	0.16	0.13	0.26	0.12	0.19
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	<0.001	<0.0010	0.002	<0.0010	0.0016	0.0011	0.0017	0.0012	0.0016
Selenium, Total	mg/L	NA	NA	NA	0.001	<0.0010	0.0011	0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.224 ± 1.25 (2.81)	0.000 ± 1.13 (2.45)	0.850 ± 0.978 (1.85)	0.171 ± 0.773 (1.61)	1.30 ± 1.02 (1.83)	0.592 ± 1.08 (2.14)	0.729	1.34	1.54

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	MW-14D											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.24	7.16	6.94	NA	8.58	7.22	7.92	7.43	7.41	6.68	6.97	5.56
Field Specific Conductance	µS/cm	515	502	594	NA	635	577	616	614	493	553	674	550
Boron, Total	mg/L	0.038	0.051	0.046	NA	0.044	0.046	0.055	0.054	0.064	0.058	0.05	0.037
Calcium, Total	mg/L	82.1	86	82.4	NA	81.1	83.6	81.3	84	82.8	84	82.4	86.8
Chloride	mg/L	12.4	11.8	12.5	NA	13	14.2	14.6	14.9	16	17.1	16.9	15.6
Fluoride	mg/L	0.16	0.15	0.17	NA	0.14	0.18	0.19	0.17	0.18	0.17	0.17	0.17
Sulfate	mg/L	68.6	67.2	61.6	NA	65.3	66.8	67.5	62.1	59.3	66.3	66.3	81.9
Total Dissolved Solids	mg/L	331	333	335	NA	307	328	300	336	305	319	315	364
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0012
Barium, Total	mg/L	NA	NA	NA	0.025	0.02	0.03	0.026	0.028	0.025	0.029	0.022	0.028
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	0.041	0.044	0.046	0.055	0.054	0.064	0.058	0.05	0.037
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.16	0.14	0.18	0.19	0.17	0.18	0.17	0.17	0.17
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.0078	0.0072	0.0087	0.0077	0.0081	0.0079	0.0081	0.0088	0.0091
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	1.09 ± 1.30 (2.64)	0.0487 ± 1.06 (2.42)	0.273 ± 1.11 (2.30)	0.693 ± 0.781 (1.31)	0.233 ± 1.06 (2.19)	0.912 ± 1.02 (1.73)	0.855	1.46	0.496

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

SUMMARY OF DOWNGRADIENT ANALYTICAL RESULTS

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Units	SW-4											
		Sep-20	Mar-21	Sep-21	Dec-21	Mar-22	Sep-22	Mar-23	Sep-23	Mar-24	Sep-24	Mar-25	Sep-25
Phase I Constituents													
Field pH	s.u.	7.28	7.79	7.54	NA	8.26	7.38	8.13	7.31	8.21	7.45	7.87	6.71
Field Specific Conductance	µS/cm	914	1768	569	NA	627	548	802	585	1050	559	812	887
Boron, Total	mg/L	0.51	1.3	0.48	NA	0.29	0.25	0.42	0.34	0.65	0.77	1.1	3.3
Calcium, Total	mg/L	101	107	74.8	NA	91.1	70.4	86.8	78.3	94.4	100	58.7	72.5
Chloride	mg/L	43.5	42.8	15.6	NA	16.2	14.6	19.2	17.9	17.2	36.1	23.6	26.8
Fluoride	mg/L	0.18	0.24	0.19	NA	0.11	0.16	0.14	0.18	0.13	0.22	0.19	0.52
Sulfate	mg/L	240	584	102	NA	180	87.9	222	103	167	339	404	480
Total Dissolved Solids	mg/L	573	1200	306	NA	457	295	520	351	506	707	647	890
Phase II Constituents													
Antimony, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic, Total	mg/L	NA	NA	NA	0.0016	<0.0010	0.0015	<0.0010	0.0021	0.0013	0.0027	0.0012	0.0016
Barium, Total	mg/L	NA	NA	NA	0.058	0.039	0.05	0.042	0.13	0.052	0.12	0.04	0.038
Beryllium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron, Total	mg/L	NA	NA	NA	1.3	0.29	0.25	0.42	0.34	0.65	0.77	1.1	3.3
Cadmium, Total	mg/L	NA	NA	NA	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chromium, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Cobalt, Total	mg/L	NA	NA	NA	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Fluoride	mg/L	NA	NA	NA	0.19	0.11	0.16	0.14	0.18	0.13	0.22	0.19	0.52
Lead, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium, Total	mg/L	NA	NA	NA	<0.02	<0.020	<0.020	<0.020	<0.020	<0.02	<0.02	<0.02	<0.02
Mercury, Total	mg/L	NA	NA	NA	<0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.002	<0.002	<0.002	<0.002
Molybdenum, Total	mg/L	NA	NA	NA	0.099	0.031	0.063	0.044	0.098	0.054	0.088	0.074	0.31
Selenium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Thallium, Total	mg/L	NA	NA	NA	<0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium 226 and 228 (Combined)	pCi/L	NA	NA	NA	0.325 ± 1.37 (2.86)	3.34 ± 4.08 (5.42)	1.05 ± 1.12 (2.14)	0.369 ± 0.741 (1.54)	1.45 ± 1.04 (1.79)	1.01 ± 1.08 (1.92)	0.92	0.817	1.63

Notes:
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
NA: Not applicable for sampling event.

APPENDIX D

STATISTICAL EVALUATION REPORT – SEPTEMBER 2025

STATISTICAL EVALUATION REPORT
SEPTEMBER 2025 SAMPLING
RESTRICTED WASTE LANDFILL (RWS I)
RM SCHAHFER GENERATING STATION
JASPER COUNTY, INDIANA

1.0 INTRODUCTION

In January 1984, the Northern Indiana Public Service Company, LLC (NIPSCO) received an operating permit from the Indiana Department of Environmental Management (IDEM) to operate a Restricted Waste Site Type I (RWS I) Landfill at the RM Schahfer Generating Station, located at 2723 E 1500 N Road in Wheatfield, Jasper County, approximately 16 miles south of Valparaiso, Indiana. Under this permit, NIPSCO has implemented a routine Phase I Groundwater Monitoring Program at the site, in accordance with a Sampling and Analysis Plan (SAP) that was prepared by NIPSCO and approved by IDEM in August 1999. The results of the monitoring program were provided to IDEM in semi-annual monitoring reports.

In May 2020, the renewal of the landfill operating permit for the site was approved by IDEM, with an expiration of April 2025. To comply with *Requirement I4* of the 2020 permit renewal, a Statistical Evaluation Plan (StEP) was prepared within 60 days after background groundwater quality was established at the site and submitted to IDEM in August 2021. The StEP was prepared in accordance with 329 IAC 10-29-5 and presents data distribution assumptions, an approach for verification resampling, and proposes a method of statistical evaluation for the monitoring program. The StEP was approved by IDEM in October 2021.

In accordance with *Requirement E18*, the StEP must be applied to determine whether there is a statistically significant increase (SSI), or decrease for pH, over background for each Phase I or II constituent. The outcome of this evaluation is included in this Statistical Evaluation Report for the September 2025 Sampling, which is included as an appendix to the Phase I and II Groundwater Monitoring Report for the Semi-Annual Monitoring Event per *Requirement E22*.

This Statistical Evaluation Report includes the results of database screening and a comparison of the groundwater quality at each monitoring well and surface water location.

As detailed in Section 1.2 of the Phase I and II Groundwater Monitoring Report for the September 2025 monitoring event, both the Phase I and Phase II Monitoring Programs are currently being conducted at the site. Details of both monitoring programs are provided in the following sections.

2.0 STATISTICAL DATASET INFORMATION

A statistical evaluation of the compliance well water quality data was conducted to determine if any SSIs in constituent concentrations, as compared to background (Phase I monitoring), or if any statistically significant levels (SSLs), as compared to the established Groundwater Protection Standard (GWPS) (Phase II monitoring), had occurred during the September 2025 sampling event. To perform the analyses, groundwater monitoring data were evaluated in accordance with the IDEM-approved StEP.

The background dataset for the shallow wells (S series) included wells MW-1S and MW-10S; the background dataset for the deep wells (D series) included MW-1D and MW-10D. The compliance dataset for the shallow wells included downgradient wells MW-2S through MW-9S and MW-11S through MW-14S. The compliance well dataset for the deep wells included downgradient wells MW-2D through MW-9D and MW-11D through MW-14D. Surface water quality data from sampling point SW-4 (downstream) were compared to data from sampling point SW-10 (upstream).

Per *Requirement E14*, the following constituents were evaluated as part of the Phase I and II Groundwater Monitoring Programs:

Phase I Monitoring Constituents

- Field pH;
- Field Specific Conductance;
- Total Boron;
- Total Calcium;
- Chloride;
- Fluoride;
- Sulfate; and
- Total Dissolved Solids (TDS).

Phase II Monitoring Constituents

- Total Antimony;
- Total Arsenic;
- Total Barium;
- Total Beryllium;
- Total Boron;
- Total Cadmium;
- Total Chromium;
- Total Cobalt;
- Fluoride;
- Total Lead;

- Total Lithium;
- Total Mercury;
- Total Molybdenum;
- Total Selenium;
- Total Thallium; and
- Radium 226 and 228 Combined.

Statistical analyses were conducted for all parameters using Sanitas™ Statistical Software version 10. Presented below are the results of the statistical evaluations.

3.0 DATABASE SCREENING

The background dataset was screened in accordance with the StEP and the results are summarized on Tables D-1 (Phase I monitoring) and D-3 (Phase II monitoring) of this appendix. Data was screened for usability, summary statistics were generated, and the following aspects of the data were evaluated: size of dataset, non-detects, outliers, trends/seasonality and normality.

4.0 PHASE I AND II MONITORING PROGRAMS

As stated in the StEP, the Unified Guidance recommends the use of Upper Tolerance Limits (UTLs) for an Assessment Monitoring Program. Tolerance limits consist of two values expected to contain a pre-specified proportion of the underlying data population with a specified level of confidence. For example, a 95% tolerance interval with a 95% confidence level, there is 95% confidence that, on average, 95% of the data population is contained within the interval. The upper one-sided UTL is commonly used in environmental monitoring and is constructed using background data. During an Assessment Monitoring Program, a UTL for each Phase I and II constituent will be calculated using pooled background data for each specific unit.

As presented in Section 5.2 of the StEP, parametric UTLs assume that background data is normally distributed or can be normalized via transformation. When the data is not normal or cannot be normalized, or if greater than 50% of the data set are non-detect, non-parametric UTLs may be used. The non-parametric UTLs is an order statistic and the confidence level for non-parametric limits is not adjustable.

For Phase I constituents, the calculated UTL will be set as the established background value. For Phase II constituents, the UTL may be used to represent the GWPS if the background UTL exceeds the established MCL or the U.S. EPA alternative standards (as defined in the StEP). UTLs were calculated for each constituent and are presented in Table D-1 (Phase I monitoring) and Table D-3 (Phase II monitoring) of this appendix.

5.0 RESULTS OF STATISTICAL EVALUATION – SEPTEMBER 2025

To determine if any SSIs or SSLs occurred at compliance wells, the most recent sampling results (collected in September 2025) were compared to the calculated UTL value (Phase I monitoring) and the established GWPS (Phase II monitoring), respectively. Datasets for the shallow (S) and deep (D) compliance wells and surface water sample point were compared to background datasets for shallow (S) and deep (D) wells and surface water sample point, respectively. The results of these analyses were used to determine the results of the Phase I and II Groundwater Monitoring Programs as detailed below.

5.1 Phase I Groundwater Monitoring Program

The Phase I constituent results of the statistical evaluation of the September 2025 monitoring event for groundwater and surface water are provided in Table D-2 of this appendix and are summarized below.

Groundwater
In the shallow wells, SSIs were identified for all constituents except for Chloride; the number of SSIs by constituent ranged from two (2) for Field pH to 10 for Fluoride. In the deep wells, SSIs were identified for all constituents; the number of SSIs by parameter ranged from one (1) for Total Boron to 10 for Chloride and Sulfate. The following wells had two (2) or more SSIs noted:

- MW-2S, MW-3Sa, MW-4S, MW-5S, and MW-5D (6 SSIs);
- MW-2D, MW-3D, MW-4D, MW-11D, MW-12D, and MW-13D (5 SSIs);
- MW-7S, MW-7D, and MW-14D (3 SSIs); and
- MW-6S, MW-6D, MW-9D, and MW-14S (2 SSIs).

Surface Water
In surface water location SW-4 (downstream sampling point), SSIs were identified for six (6) Phase I constituents (Specific Conductance, Total Boron, Chloride, Fluoride, Sulfate, and TDS).

5.2 Phase II Groundwater Monitoring Program

The Phase II constituent results of the statistical evaluation of the September 2025 monitoring event for groundwater and surface water are provided in Table D-4 of this appendix and are summarized below.

Groundwater
In the shallow wells, SSLs were identified in the following wells:

- MW-4S (Total Molybdenum);
- MW-6S (Total Cobalt);

- MW-13S (Total Cobalt); and
- MW-14S (Total Cobalt).

In the deep wells, SSLs were identified in the following wells:

- MW-2D (Total Molybdenum);
- MW-3D (Total Lithium, Total Molybdenum, and Combined Radium 226 and 228);
- MW-4D (Total Molybdenum);
- MW-5D (Total Boron, Total Lithium, and Total Molybdenum);
- MW-7D (Total Arsenic);
- MW-9D (Total Lithium); and
- MW-13D (Total Molybdenum).

Surface Water

In surface water location SW-4 (downstream sampling point), Total Molybdenum identified as a SSL at sampling point SW-4 (downstream):

APPENDIX D TABLES

TABLE D-1
SUMMARY OF PHASE I CONSTITUENTS BACKGROUND SCREENING AND BACKGROUND QUALITY LEVELS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Unit	Well ID	Data Verification Result	Number of Observations	Percent ND	Unit	Minimum	Maximum	Mean	Median	Standard Deviation	Skewness	Outliers	Trend/ Seasonality	Normality	UTL
pH (Field)	Shallow	MW-1S	Usable	14	0%	S.U.	5.98	7.75	6.904	7.01	0.528	-0.4531	None	NA	Normal	5.67/8.69
		MW-10S	Usable	14	0%		6.27	8.27	7.344	7.385	0.5901	-0.2922			Normal	
	Deep	MW-1D	Usable	14	0%		6.47	7.92	7.188	7.24	0.4624	-0.2541	None		Normal	6.09/8.68
		MW-10D	Usable	14	0%		6.81	8.35	7.554	7.61	0.4421	-0.1772			Normal	
	Surface Water	SW-10	Usable	14	0%		6.53	8.55	7.405	7.455	0.6481	0.4386	None		Normal	5.56/9.39
Specific Conductance (Field)	Shallow	MW-1S	Usable	14	0%	µS/cm	220	689	405.8	372	155.2	0.8077	None	NA	Normal	908
		MW-10S	Usable	14	0%		325	1110	555.1	544.5	180	2.096			Cube Root	
	Deep	MW-1D	Usable	14	0%		414	1010	603.1	619	142.1	1.543	None		Normal	892
		MW-10D	Usable	14	0%		325	650	399.1	387.5	79.49	2.354			No	
	Surface Water	SW-10	Usable	14	0%		337	823	489.8	490.5	111.2	1.851	Yes		Square Root	632
Total Boron	Shallow	MW-1S	Usable	14	0%	mg/L	0.13	0.27	0.185	0.185	0.03459	0.602	None	NA	Normal	0.27
		MW-10S	Usable	14	0%		0.044	0.078	0.055	0.052	0.009853	1.009			Normal	
	Deep	MW-1D	Usable	14	0%		0.15	13.6	3.481	1.29	4.245	1.15	None		Square Root	13.6
		MW-10D	Usable	14	0%		0.055	0.068	0.06114	0.0605	0.00382	0.1957			Normal	
	Surface Water	SW-10	Usable	14	0%		0.015	0.075	0.03079	0.0265	0.01474	2.123	Yes		Natural Log	0.04
Calcium, Total	Shallow	MW-1S	Usable	14	0%	mg/L	35.8	77.7	50.02	47.3	12.68	1.26	None	NA	Normal	92.1
		MW-10S	Usable	14	0%		55	80.7	69.61	70.15	7.207	-0.4175			Normal	
	Deep	MW-1D	Usable	14	0%		70.5	96.6	82.8	83.7	7.806	-0.05848	None		Normal	96.6
		MW-10D	Usable	14	0%		46.5	60.8	52.42	51.05	4.326	0.9643			Normal	
	Surface Water	SW-10	Usable	14	0%		51.4	73.6	62.09	61.65	6.013	0.2687	None		Normal	78.8
Chloride	Shallow	MW-1S	Usable	14	0%	mg/L	1.9	85	12.47	5.55	21.66	2.958	Yes	NA	Natural Log	36.1
		MW-10S	Usable	14	0%		5	34.5	17.06	14.2	9.494	0.3404			Normal	
	Deep	MW-1D	Usable	14	0%		3.1	27.1	8.507	4.85	7.591	1.611	Yes		Natural Log	11.2
		MW-10D	Usable	14	0%		2.6	18.8	6.307	4.8	4.558	1.919			Cube Root	
	Surface Water	SW-10	Usable	14	0%		6.5	13.3	11.23	12.1	2.131	-1.026	None		Normal	16.7
Fluoride	Shallow	MW-1S	Usable	14	100%	mg/L	0.1	0.1	0.1	0.1	0	NA	None	NA	No	0.10
		MW-10S	Usable	14	100%		0.1	0.1	0.1	0.1	0	NA			No	
	Deep	MW-1D	Usable	14	0%		0.2	0.38	0.2764	0.265	0.0593	0.4269	None		Normal	0.40
		MW-10D	Usable	14	7%		0.05	0.15	0.1336	0.145	0.02735	-2.216			No	
	Surface Water	SW-10	Usable	14	14%		0.05	0.17	0.1236	0.13	0.03478	-1.234	None		Square	0.16
Sulfate	Shallow	MW-1S	Usable	14	0%	mg/L	28.2	150	50.84	43.5	30.24	2.722	Yes	NA	Natural Log	86.5
		MW-10S	Usable	14	0%		49.5	83.4	63.29	62.3	9.706	0.4308			Normal	
	Deep	MW-1D	Usable	14	0%		40.3	77.6	53.17	51.6	9.921	1.264	None		Normal	77.7
		MW-10D	Usable	14	0%		11.4	44.6	26.05	27	8.206	0.2439			Normal	
	Surface Water	SW-10	Usable	14	0%		44.3	77.8	61.2	61.45	7.436	-0.04456	None		Normal	82.0
Total Dissolved Solids	Shallow	MW-1S	Usable	14	0%	mg/L	130	424	208.6	189	78.95	1.724	None	NA	Square Root	427
		MW-10S	Usable	14	0%		236	351	298.8	314.5	37.76	-0.2207			Normal	
	Deep	MW-1D	Usable	14	0%		269	368	326	340	34.92	-0.5733	None		Normal	446
		MW-10D	Usable	14	0%		166	253	202.6	200.5	22.63	0.5356			Normal	
	Surface Water	SW-10	Usable	14	0%		221	312	261	258	25.89	0.4184	None		Normal	333

Notes:
UTL: Upper Tolerance Limit; lower and upper limits are provided for pH. UTL values 100 and above are presented as whole numbers, values equal to or greater than one (1) and below 100 are presented to the tenth decimal place and values less than one (1) are presented to the hundredth decimal place.
NA: Not applicable.
mg/L: Milligram per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.

TABLE D-2
PHASE I CONSTITUENTS STATISTICAL EVALUATION RESULTS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Shallow Well Locations													
Constituent (Unit)	**Background Quality Level**	**MW-2S**	**MW-3Sa**	**MW-4S**	**MW-5S**	**MW-6S**	**MW-7S**	**MW-8S**	**MW-9S**	**MW-11S**	**MW-12S**	**MW-13S**	**MW-14S**
Field pH (s.u.)	5.67/8.70	7.18	7.36	6.98	6.65	**5.20**	5.78	7.35	6.90	6.87	6.91	6.40	**5.46**
Field Specific Conductance (uS/cm)	908	**963**	**1420**	**1130**	**1130**	426	684	220	417	863	520	349	477
Total Boron (mg/L)	0.27	**3.3**	**1.6**	**2.0**	**2.5**	0.045	0.034	0.029	0.025	0.067	0.110	0.052	0.032
Total Calcium (mg/L)	92.1	**137**	**134**	**108**	**197**	39.3	88.4	28.5	54.6	69.9	50.6	56.7	40.7
Chloride (mg/L)	36.1	3.4	2.0	11.1	7.2	13.6	4.9	5.3	16.3	9.7	11.9	14.5	14.5
Fluoride (mg/L)	0.10	**0.43**	**0.26**	**0.27**	**0.3**	*<0.1*	**0.24**	*<0.1*	**0.41**	**0.27**	**0.44**	**0.24**	**0.19**
Sulfate (mg/L)	86.5	**332**	**233**	**363**	**461**	**111**	**221**	28.5	45.4	46.8	40.8	75.7	75.5
Total Dissolved Solids (mg/L)	427	**627**	**572**	**747**	**908**	221	**466**	130	279	339	237	283	245

Deep Well Locations													
Constituent (Unit)	**Background Quality Level**	**MW-2D**	**MW-3D**	**MW-4D**	**MW-5D**	**MW-6D**	**MW-7D**	**MW-8D**	**MW-9D**	**MW-11D**	**MW-12D**	**MW-13D**	**MW-14D**
Field pH (s.u.)	6.09/8.69	6.65	6.86	6.96	6.09	**5.02**	**6.05**	7.14	6.50	6.31	6.24	**5.72**	**5.56**
Field Specific Conductance (uS/cm)	892	**1480**	**17700**	**2180**	**3130**	392	601	357	500	**2210**	**2780**	**1160**	550
Total Boron (mg/L)	13.6	10.5	12.0	5.2	**13.9**	0.022	0.036	0.37	1.60	0.7	0.96	1.1	0.037
Total Calcium (mg/L)	96.6	68.6	**284**	**235**	**457**	64.5	84.3	49.8	44	**111**	**135**	52.4	86.8
Chloride (mg/L)	11.2	**30**	**729**	**110**	**683**	11.1	**19.0**	7.7	**17.8**	**74**	**110**	**80.4**	**15.6**
Fluoride (mg/L)	0.40	**1.1**	*<0.1*	0.26	*<0.1*	0.26	0.16	0.17	**0.41**	0.13	0.2	0.29	0.17
Sulfate (mg/L)	77.7	**780**	**12500**	**1780**	**4850**	**78.5**	**95.7**	26.5	1.8	**1060**	**1470**	**868**	**81.9**
Total Dissolved Solids (mg/L)	446	**1500**	**20100**	**2970**	**8100**	275	378	229	318	**1870**	**2480**	**1600**	364

Surface Water Location		
Constituent (Unit)	**Background Quality Level**	**SW-4**
Field pH (s.u.)	5.56/9.39	6.71
Field Specific Conductance (uS/cm)	632	**887**
Total Boron (mg/L)	0.04	**3.3**
Total Calcium (mg/L)	78.8	72.5
Chloride (mg/L)	16.7	**26.8**
Fluoride (mg/L)	0.16	**0.52**
Sulfate (mg/L)	82.0	**480**
Total Dissolved Solids (mg/L)	333	**890**

Notes:
Background Quality Level established using Upper Tolerance Limits (UTLs). Lower and upper limits are provided for pH.
DQ: Double quantification rule – UTL set to highest reporting limit.
mg/L: Milligram per liter.
s.u.: Standard units.
µS/cm: Microsiemen per centimeter.
Orange Highlighted: value exceeds its Background Quality Level

TABLE D-3
SUMMARY OF PHASE II CONSTITUENTS BACKGROUND SCREENING AND BACKGROUND QUALITY LEVELS - SEPTEMBER 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Parameter	Unit	Well ID	Data Verification Result	Number of Observations	Percent ND	Unit	Minimum	Maximum	Mean	Median	Standard Deviation	Skewness	Outliers	Trend/ Seasonality	Normality	UTL	MCLs and U.S. EPA Alternative Standard
Total Antimony	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.006
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No	NA	
Total Arsenic	Shallow	MW-1S	Usable	14	92%	mg/L	0.001	0.001	0.001	0.001	1.30E-11	-3.328	None	NA	No	0.004	0.01
		MW-10S	Usable	14	85%		0.001	0.0043	0.001264	0.001	0.0008802	3.249			No		
	Deep	MW-1D	Usable	14	64%		0.001	0.0013	0.00105	0.001	0.00008549	1.917	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	50%		0.001	0.0022	0.00125	0.0011	0.0003414	1.577	NA		No	NA	
Total Barium	Shallow	MW-1S	Usable	14	0%	mg/L	0.0055	0.018	0.009821	0.0089	0.003326	0.8836	None	NA	Normal	0.03	2.0
		MW-10S	Usable	14	0%		0.013	0.032	0.0175	0.017	0.004768	2.086			Natural Log		
	Deep	MW-1D	Usable	14	0%		0.021	0.036	0.02971	0.03	0.005045	-0.2027	None		Normal	0.04	
		MW-10D	Usable	14	0%		0.017	0.026	0.02029	0.02	0.0024	0.9331			Normal		
	Surface Water	SW-10	Usable	14	0%		0.0024	0.1	0.0581	0.0555	0.02157	-0.6475	None		Normal	0.12	
Total Beryllium	Shallow	MW-1S	Usable	14	100%	mg/L	0.0002	0.0002	0.0002	0.0002	0	NA	None	NA	No	0.0002	0.004
		MW-10S	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.0002	0.0004	0.0002143	0.0002	0.00005345	3.328	None		No	0.0004	
		MW-10D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	NA		No	NA	
Total Boron	Shallow	MW-1S	Usable	14	0%	mg/L	0.13	0.27	0.185	0.185	0.03459	0.602	None	NA	Normal	0.27	4.0
		MW-10S	Usable	14	0%		0.044	0.078	0.055	0.052	0.009853	1.009			Normal		
	Deep	MW-1D	Usable	14	0%		0.15	13.6	3.481	1.29	4.245	1.15	None		Square Root	13.6	4.0
		MW-10D	Usable	14	0%		0.055	0.068	0.06114	0.0605	0.00382	0.1957			Normal		
	Surface Water	SW-10	Usable	14	0%		0.015	0.075	0.03079	0.0265	0.01474	2.123	Yes		Natural Log	0.04	4.0
Total Cadmium	Shallow	MW-1S	Usable	14	100%	mg/L	0.0002	0.0002	0.0002	0.0002	0	NA	None	NA	No	0.0002	0.005
		MW-10S	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	None		No	0.0002	
		MW-10D	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.0002	0.0002	0.0002	0.0002	0	NA	NA		No	NA	
Total Chromium	Shallow	MW-1S	Usable	14	100%	mg/L	0.002	0.002	0.002	0.002	0	NA	None	NA	No	0.002	0.1
		MW-10S	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	None		No	0.002	
		MW-10D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	NA		No	NA	
Total Cobalt	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	Yes	NA	No	0.002	0.006
		MW-10S	Usable	14	14%		0.0005	0.0082	0.001857	0.0013	0.001921	2.799			Natural Log		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	92%		0.001	0.0011	0.001007	0.001	0.00002673	3.328	NA		No	NA	
Fluoride	Shallow	MW-1S	Usable	14	100%	mg/L	0.1	0.1	0.1	0.1	0	NA	None	NA	No	0.01	4.0
		MW-10S	Usable	14	100%		0.1	0.1	0.1	0.1	0	NA			No		
	Deep	MW-1D	Usable	14	0%		0.2	0.38	0.2764	0.265	0.0593	0.4269	None		Normal	0.40	
		MW-10D	Usable	14	7%		0.05	0.15	0.1336	0.145	0.02735	-2.216			No		
	Surface Water	SW-10	Usable	14	14%		0.05	0.17	0.1236	0.13	0.03478	-1.234	None		Square	0.16	
Total Lead	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.015
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No	NA	
Total Lithium	Shallow	MW-1S	Usable	14	100%	mg/L	0.02	0.02	0.02	0.02	0	NA	None	NA	No	0.02	0.04
		MW-10S	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA	None		No	0.02	
		MW-10D	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.02	0.02	0.02	0.02	0	NA	NA		No	NA	
Total Mercury	Shallow	MW-1S	Usable	14	100%	mg/L	0.002	2	0.1447	0.002	0.534	3.328	None	NA	No	NA	0.002
		MW-10S	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.002	2	0.1447	0.002	0.534	3.328	None		No	NA	
		MW-10D	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.002	0.002	0.002	0.002	0	NA	NA		No	NA	
Total Molybdenum	Shallow	MW-1S	Usable	14	0%	mg/L	0.0077	0.027	0.01411	0.013	0.005486	1.033	None	NA	Normal	0.03	0.1
		MW-10S	Usable	14	21%		0.001	0.0013	0.001136	0.00115	0.0001082	0.00386			Normal		
	Deep	MW-1D	Usable	14	28%		0.001	0.0034	0.001921	0.0017	0.0008946	0.4048	None		Normal	0.003	
		MW-10D	Usable	14	28%		0.001	0.0014	0.00115	0.0011	0.0001605	0.00386			No		
	Surface Water	SW-10	Usable	14	0%		0.0023	0.0079	0.005143	0.005	0.001385	0.06467	None		Normal	0.01	
Total Selenium	Shallow	MW-1S	Usable	14	0%	mg/L	0.0031	0.0088	0.005893	0.0056	0.001721	0.2958	None	NA	Normal	0.01	0.05
		MW-10S	Usable	14	78%		0.001	0.002	0.00115	0.001	0.0003436	1.965			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	92%		0.001	0.0015	0.001036	0.001	0.0001336	3.328	NA		No	NA	
Total Thallium	Shallow	MW-1S	Usable	14	100%	mg/L	0.001	0.001	0.001	0.001	0	NA	None	NA	No	0.001	0.002
		MW-10S	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Deep	MW-1D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	None		No	0.001	
		MW-10D	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA			No		
	Surface Water	SW-10	Usable	14	100%		0.001	0.001	0.001	0.001	0	NA	NA		No	NA	
Radium 226 and 228 Combined	Shallow	MW-1S	Usable	14	7%	pCi/L	0.128	1.93	0.7454	0.5135	0.5181	0.8856	None	NA	Normal	2.0	5.0
		MW-10S	Usable	14	7%		0.175	1.3	0.7161	0.7125	0.3682	0.07258			Normal		
	Deep	MW-1D	Usable	14	7%		0.375	1.9	1.001	0.895	0.4973	0.3291	None		Normal	2.3	
		MW-10D	Usable	14	7%		0.0946	2	0.8311	0.943	0.517	0.4103			Normal		
	Surface Water	SW-10	Usable	14	7%		0.093	3.41	0.907	0.5325	0.8861	1.735	None		Square Root	3.8	

Notes:
UTL: Upper Tolerance Limit values equal to or greater than one (1) and below 100 are presented to the tenth decimal place and values less than one (1) are presented to the hundredth decimal place.
MCL: Maximum Contaminant Level.
Groundwater Protection Standard (GWPS) set as the highest value between the calculated UTL (if available) and applicable MCL or U.S. EPA alternative standard; the selected GWPS is highlighted in orange.
NA: Not applicable.
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.

TABLE D-4
PHASE II CONSTITUENTS STATISTICAL EVALUATION RESULTS - MARCH 2025

RM Schahfer Generating Station RWS I
Jasper County, Indiana

Shallow Well Locations												
Constituent (Unit)	**GWPS**	**MW-2S**	**MW-3Sa**	**MW-4S**	**MW-5S**	**MW-6S**	**MW-7S**	**MW-8S**	**MW-9S**	**MW-11S**	**MW-12S**	**MW-13S**	**MW-14S**
Total Antimony (mg/L)	0.006	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	0.0012	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Total Arsenic (mg/L)	0.01	0.0047	0.0073	0.0054	0.004	*<0.001*	0.0015	*<0.001*	*<0.001*	*<0.001*	0.0012	0.0033	0.0011
Total Barium (mg/L)	2.0	0.098	0.078	0.036	0.22	0.033	0.092	0.0042	0.049	0.053	0.055	0.072	0.1
Total Beryllium (mg/L)	0.004	*<0.0002*	*<0.0004*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*
Total Boron (mg/L)	4.0	3.3	1.6	2	2.5	0.045	0.034	0.029	0.025	0.067	0.11	0.052	0.032
Total Cadmium (mg/L)	0.005	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	0.00039	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	0.00021
Total Chromium (mg/L)	0.1	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Total Cobalt (mg/L)	0.006	*<0.001*	0.0015	*<0.001*	*<0.001*	**0.0096**	0.0024	*<0.001*	*<0.001*	0.0012	*<0.001*	**0.0088**	**0.036**
Fluoride (mg/L)	4.0	0.43	0.26	0.27	0.30	*<0.1*	0.24	*<0.1*	0.41	0.27	0.44	0.24	0.19
Total Lead (mg/L)	0.015	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Total Lithium (mg/L)	0.04	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*	*<0.02*
Total Mercury (mg/L)	0.002	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Total Molybdenum (mg/L)	0.1	0.026	0.026	**0.13**	0.037	*<0.001*	0.0038	*<0.001*	0.003	0.002	0.017	0.0082	0.0016
Total Selenium (mg/L)	0.05	*<0.001*	0.0018	*<0.001*	*<0.001*	*<0.001*	0.0013	*<0.001*	*<0.001*	*<0.001*	0.0012	*<0.001*	*<0.001*
Total Thallium (mg/L)	0.002	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Radium 226 and 228 Combined (pCi/L)	5.0	1.82	1.89	1.58	2.33	1.07	0.50	1.25	0.80	1.15	1.16	0.80	1.54

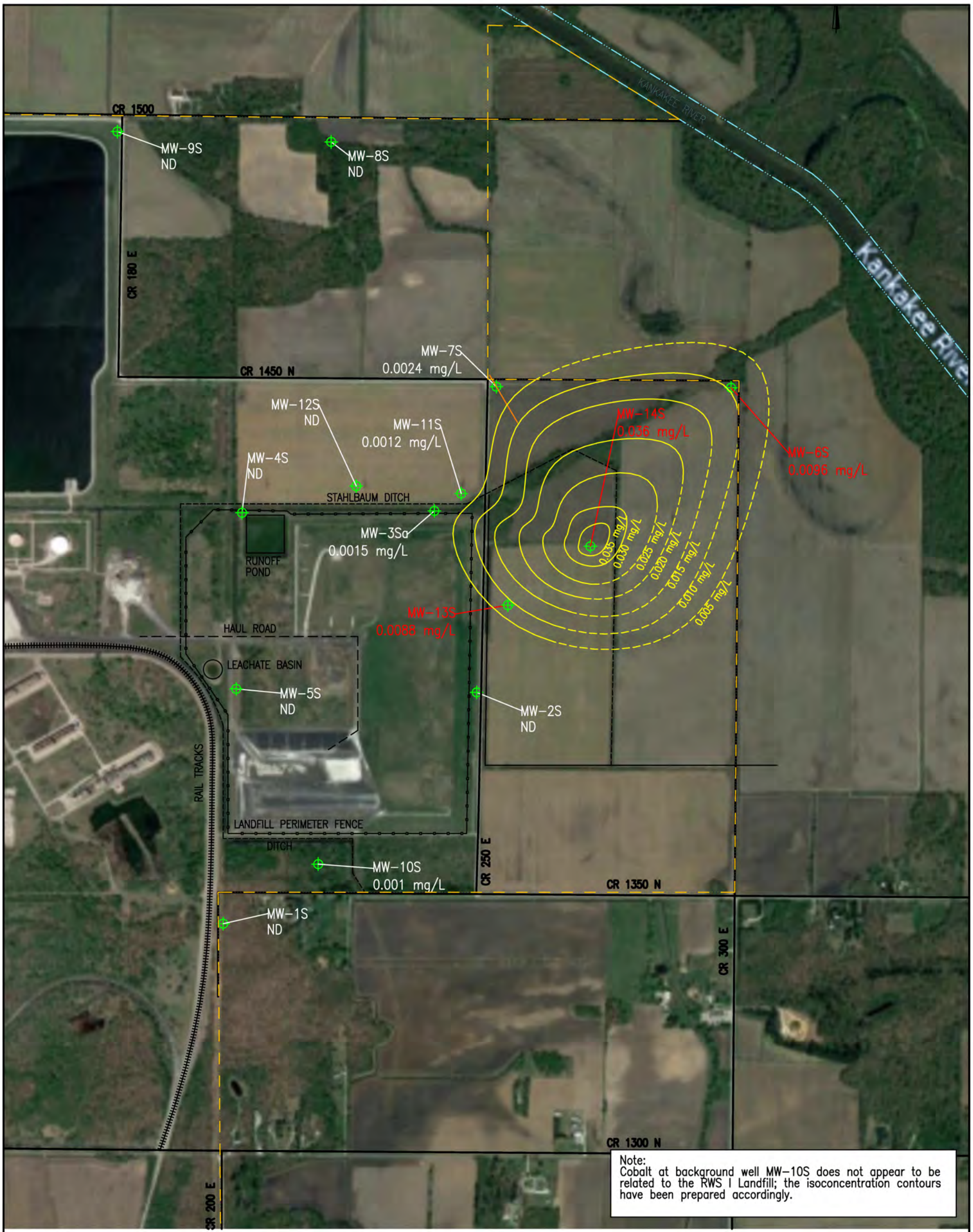
Deep Well Locations													
Constituent (Unit)	**GWPS**	**MW-2D**	**MW-3D**	**MW-4D**	**MW-5D**	**MW-6D**	**MW-7D**	**MW-8D**	**MW-9D**	**MW-11D**	**MW-12D**	**MW-13D**	**MW-14D**
Total Antimony (mg/L)	0.006	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	0.0045	*<0.001*
Total Arsenic (mg/L)	0.01	*<0.001*	0.0021	*<0.001*	*<0.001*	0.0018	**0.011**	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	0.0012
Total Barium (mg/L)	2.0	0.039	0.029	0.044	0.067	0.028	0.039	0.04	0.047	0.052	0.028	0.045	0.028
Total Beryllium (mg/L)	0.004	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*
Total Boron (mg/L)	13.6	10.5	12	5.2	**13.9**	0.022	0.036	0.37	1.6	0.73	0.96	1.1	0.037
Total Cadmium (mg/L)	0.005	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*	*<0.0002*
Total Chromium (mg/L)	0.1	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Total Cobalt (mg/L)	0.006	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Fluoride (mg/L)	4.0	1.1	*<0.1*	0.26	*<0.1*	0.26	0.16	0.17	0.41	0.13	0.2	0.29	0.17
Total Lead (mg/L)	0.015	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Total Lithium (mg/L)	0.04	0.0248	**0.0659**	0.0204	**0.0405**	*<0.02*	*<0.02*	*<0.02*	**0.0438**	*<0.02*	*<0.02*	*<0.02*	*<0.02*
Total Mercury (mg/L)	0.002	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*	*<0.002*
Total Molybdenum (mg/L)	0.1	**1.3**	**0.32**	**1.5**	**2.6**	0.0048	0.0043	0.0024	0.0024	0.0044	0.031	**0.16**	0.0091
Total Selenium (mg/L)	0.05	*<0.001*	0.003	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Total Thallium (mg/L)	0.002	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*	*<0.001*
Radium 226 and 228 Combined (pCi/L)	5.0	1.36	**5.16**	3.17	4.93	0.802	1.06	0.7	1.16	1.400	0.578	0.758	0.496

Surface Water Location		
Constituent (Unit)	**GWPS**	**SW-4**
Total Antimony (mg/L)	0.006	*<0.001*
Total Arsenic (mg/L)	0.01	0.002
Total Barium (mg/L)	2.0	0.038
Total Beryllium (mg/L)	0.004	*<0.0002*
Total Boron (mg/L)	4.0	3.3
Total Cadmium (mg/L)	0.005	*<0.0002*
Total Chromium (mg/L)	0.1	*<0.002*
Total Cobalt (mg/L)	0.006	*<0.001*
Fluoride (mg/L)	4.0	0.52
Total Lead (mg/L)	0.015	*<0.001*
Total Lithium (mg/L)	0.04	*<0.02*
Total Mercury (mg/L)	0.002	*<0.002*
Total Molybdenum (mg/L)	0.1	**0.31**
Total Selenium (mg/L)	0.05	*<0.001*
Total Thallium (mg/L)	0.002	*<0.001*
Radium 226 and 228 Combined (pCi/L)	5.0	1.63

Notes:
Groundwater Protection Standard (GWPS) set as the highest value between the calculated Upper Tolerance Limit (UTL; if available) and applicable Maximum Contaminant Level (MCL) or U.S. EPA alternative standard.
GWPS exceedances are highlighted in orange.
mg/L: Milligram per liter.
pCi/L: Picocuries per liter.

APPENDIX E

ISOCONCENTRATION MAPS BY CONSTITUENT – SEPTEMBER 2025



Note:
Cobalt at background well MW-10S does not appear to be related to the RWS I Landfill; the isoconcentration contours have been prepared accordingly.

LEGEND:

- AGES SHALLOW MONITORING WELL
- COBALT ISOCONCENTRATION CONTOURS
- ESTIMATED COBALT ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR COBALT = 0.006 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_SEPT2025 [ShallowCobalt]
DRAWING SCALE	AS SHOWN

AGES
Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 COBALT ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL SHALLOW WELLS

DRAWING NAME: FIGURE E-1

REV. 0

Plot: 10/31/2025 12:51 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025.dwg [ShallowCobalt]



LEGEND:

- AGES DEEP MONITORING WELL
- ARSENIC ISOCONCENTRATION CONTOURS
- ESTIMATED ARSENIC ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR ARSENIC = 0.01 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Arsenic2025 [DeepArsenic]
DRAWING SCALE	AS SHOWN

AGES
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2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 ARSENIC ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL DEEP WELLS

DRAWING NAME: FIGURE E-2

REV. 0

Plot: 10/31/2025 13:09 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025dwg [DeepArsenic]



LEGEND:

- AGES DEEP MONITORING WELL
- BORON ISOCONCENTRATION CONTOURS
- ESTIMATED BORON ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR BORON = 13.6 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Sept2025 [DeepBoron]
DRAWING SCALE	AS SHOWN

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2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 BORON ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL DEEP WELLS

DRAWING NAME: FIGURE E-3

REV.: 0

Plot: 10/31/2025 16:13 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025dwg [DeepBoron]



LEGEND:

- AGES DEEP MONITORING WELL
- LITHIUM ISOCONCENTRATION CONTOURS
- ESTIMATED LITHIUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR LITHIUM = 0.04 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Sept2025 [DeepLithium]
DRAWING SCALE	AS SHOWN

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Clinton, PA 15026
412.264.6453

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RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 LITHIUM ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL DEEP WELLS

DRAWING NAME: FIGURE E-4

REV.: 0

Plot: 10/31/2025 16:47 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025.dwg [DeepLithium]



Note:
Molybdenum at background well MW-1S does not appear to be related to the RWS I Landfill; the isoconcentration contours have been prepared accordingly.

LEGEND:

- AGES SHALLOW MONITORING WELL
- MOLYBDENUM ISOCONCENTRATION CONTOURS
- ESTIMATED MOLYBDENUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR MOLYBDENUM = 0.1 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Sept2025 [ShallowMolybd]
DRAWING SCALE	AS SHOWN

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2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 MOLYBDENUM ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL SHALLOW WELLS

DRAWING NAME: FIGURE E-5

REV. 0

Plot: 10/31/2025 12:58 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025.dwg [ShallowMolybd]



LEGEND:

- AGES DEEP MONITORING WELL
- MOLYBDENUM ISOCONCENTRATION CONTOURS (Contour Interval = 0.5 mg/L)
- MOLYBDENUM ISOCONCENTRATION CONTOURS (Contour Interval = 0.1 mg/L)
- ESTIMATED MOLYBDENUM ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR MOLYBDENUM = 0.1 mg/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Sept2025 [DeepMolybd]
DRAWING SCALE	AS SHOWN

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2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 MOLYBDENUM ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL DEEP WELLS

DRAWING NAME: FIGURE E-6

REV. 0

Plot: 10/31/2025 17:44 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025.dwg [DeepMolybd]



LEGEND:

- AGES DEEP MONITORING WELL
- RADIUM 226/228 ISOCONCENTRATION CONTOURS
- ESTIMATED RADIUM 226/228 ISOCONCENTRATION CONTOURS

NOTE: GWPS FOR RADIUM 226/228 = 5 pCi/L

1,000' 0' 1,000' 3,000'

SCALE: 1"= 1,000'

DRAWN BY	MST
CHECKED BY	
JOB NO.	2025010-SCH-NIPSCO
DWG FILE	2025010_NIPSCO_ISO_Sept2025 [DeepRads]
DRAWING SCALE	AS SHOWN

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Applied Geology And Environmental Science, Inc.
2402 Hookstown Grade Road, Suite 200
Clinton, PA 15026
412.264.6453

NiSOURCE, INC.

RM SCHAHFER GENERATING STATION
RWS I LANDFILL
JASPER COUNTY INDIANA
SEPTEMBER 2025 RADIUM 226/228 ISOCONCENTRATION CONTOURS
FOR IDEM LANDFILL DEEP WELLS

DRAWING NAME: FIGURE E-7

REV.: 0

Plot: 11/03/2025 09:12 :_PROGRAMS - NISOURCE\NIPSCO Schahfer\CAD\2025GW\2025010_NIPSCO_ISO_Sept2025.dwg [DeepRads]

APPENDIX F

MASS CALCULATIONS – SEPTEMBER 2025

TABLE F-1
MASS CALCULATIONS - COBALT
SEPTEMBER 2025

RM SCHAHFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA

Total Cobalt mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.005	4863146	48169461	14450838	409201499	2046007	2.046	0.0020
0.010	3269167	32381099	9714330	275078732	2750787	2.751	0.0028
0.015	2513302	24894256	7468277	211477703	3172166	3.172	0.0032
0.020	1381838	13687105	4106132	116272508	2325450	2.325	0.0023
0.025	819264	8114810	2434443	68935635	1723391	1.723	0.0017
0.030	236814	2345643	703693	19926328	597790	0.598	0.0006
0.035	85770	849552	254866	7216977	252594	0.253	0.0003
Totals	**13,169,301**	**130,441,926**	**39,132,578**	**1,108,109,382**	**12,868,185**	**12.868**	**0.0129**

TABLE F-2
MASS CALCULATIONS - ARSENIC
SEPTEMBER 2025

RM SCHAHFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA

Total Arsenic mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.005	3972079	101804385	30541315	864832321	4324162	4.32	0.0043
0.010	166718	4272982	1281895	36299156	362992	0.36	0.0004
Totals	**4,138,797**	**106,077,367**	**31,823,210**	**901,131,477**	**4,687,153**	**4.69**	**0.0047**

TABLE F-3
MASS CALCULATIONS - BORON
SEPTEMBER 2025

RM SCHAHFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA

Total Boron mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
2	13981270	358339950	107501985	3044112210	6088224419	6088.22	6.09
4	10165942	260553093	78165928	2213408951	8853635804	8853.64	8.85
6	5454412	139796580	41938974	1187577535	7125465211	7125.47	7.13
8	5343825	136962235	41088670	1163499663	9307997302	9308.00	9.31
10	2614252	67003279	20100984	569195533	5691955332	5691.96	5.69
12	2893965	74172323	22251697	630096850	7561162204	7561.16	7.56
Totals	**40,453,666**	**1,036,827,460**	**311,048,238**	**8,807,890,742**	**44,628,440,273**	**44628.44**	**44.63**

TABLE F-4
MASS CALCULATIONS - LITHIUM
SEPTEMBER 2025

RM SCHAHFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA

Total Lithium mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.02	8067816	206778124	62033437	1756588435	35131769	35.1318	0.0351
0.04	4965169	127257281	38177184	1081055696	43242228	43.2422	0.0432
0.06	3407643	87337890	26201367	741938870	44516332	44.5163	0.0445
Totals	**16,440,628**	**421,373,296**	**126,411,989**	**3,579,583,001**	**122,890,329**	**122.8903**	**0.1229**

TABLE F-5
MASS CALCULATIONS - MOLYBDENUM
SEPTEMBER 2025

RM SCHAHFER GENERATING STATION RWS I
JASPER COUNTY, INDIANA

Total Molybdenum (Shallow) mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.02	8100161	80232095	24069628	681574854	13631497	13.631	0.0136
0.04	4496828	44541081	13362324	378378268	15135131	15.135	0.0151
0.06	2941120	29131794	8739538	247475752	14848545	14.849	0.0148
0.08	1657464	16417181	4925154	139464609	11157169	11.157	0.0112
0.10	696945	6903240	2070972	58643302	5864330	5.864	0.0059
0.12	95249	943441	283032	8014572	961749	0.962	0.0010
Shallow Totals	**17,987,767**	**178,168,832**	**53,450,650**	**1,513,551,356**	**61,598,420**	**61.598**	**0.0616**

Total Molybdenum (Deep) mg/l	Area ft2	Total Volume Aquifer ft3	Total Volume Groundwater ft3	Total Volume Water liters	Mass Calc mg	Mass Calc kilograms	Mass Calc metric tons
0.1	14276252	365900339	109770102	3108338014	310833801	310.83	0.31
0.2	9604657	246167359	73850208	2091201561	418240312	418.24	0.42
0.3	11593112	297131461	89139438	2524143643	757243093	757.24	0.76
0.4	7699582	197340287	59202086	1676413629	670565452	670.57	0.67
0.5	9654077	247433994	74230198	2101961672	1050980836	1050.98	1.05
1.0	5770887	147907834	44372350	1256482965	1256482965	1256.48	1.26
1.5	3122107	80019602	24005881	679769723	1019654585	1019.65	1.02
2.0	1543488	39559597	11867879	336060363	672120725	672.12	0.67
2.5	52269	1339654	401896	11380418	28451046	28.45	0.03
Deep Totals	**63,316,431**	**1,622,800,127**	**486,840,038**	**13,785,751,987**	**6,184,572,814**	**6184.57**	**6.18**

Totals	**81,304,198**	**1,800,968,959**	**540,290,688**	**15,299,303,343**	**6,246,171,235**	**6,246**	**6.25**

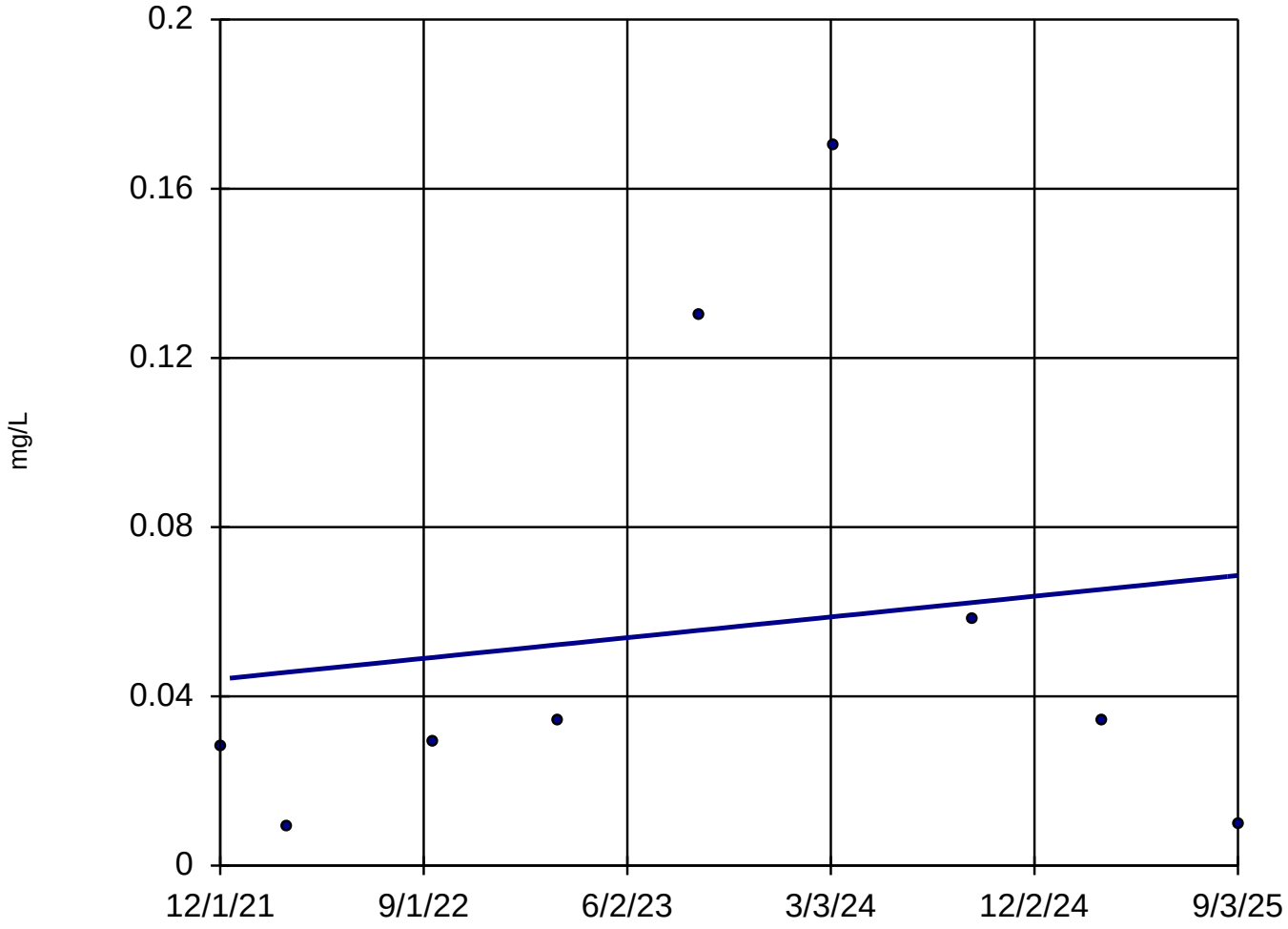
APPENDIX G

STATISTICAL ANALYSES

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-6S



n = 9

Slope = 0.006516 units/year.

alpha = 0.02
t = 0.4116
critical = 2.517

No significant trend.

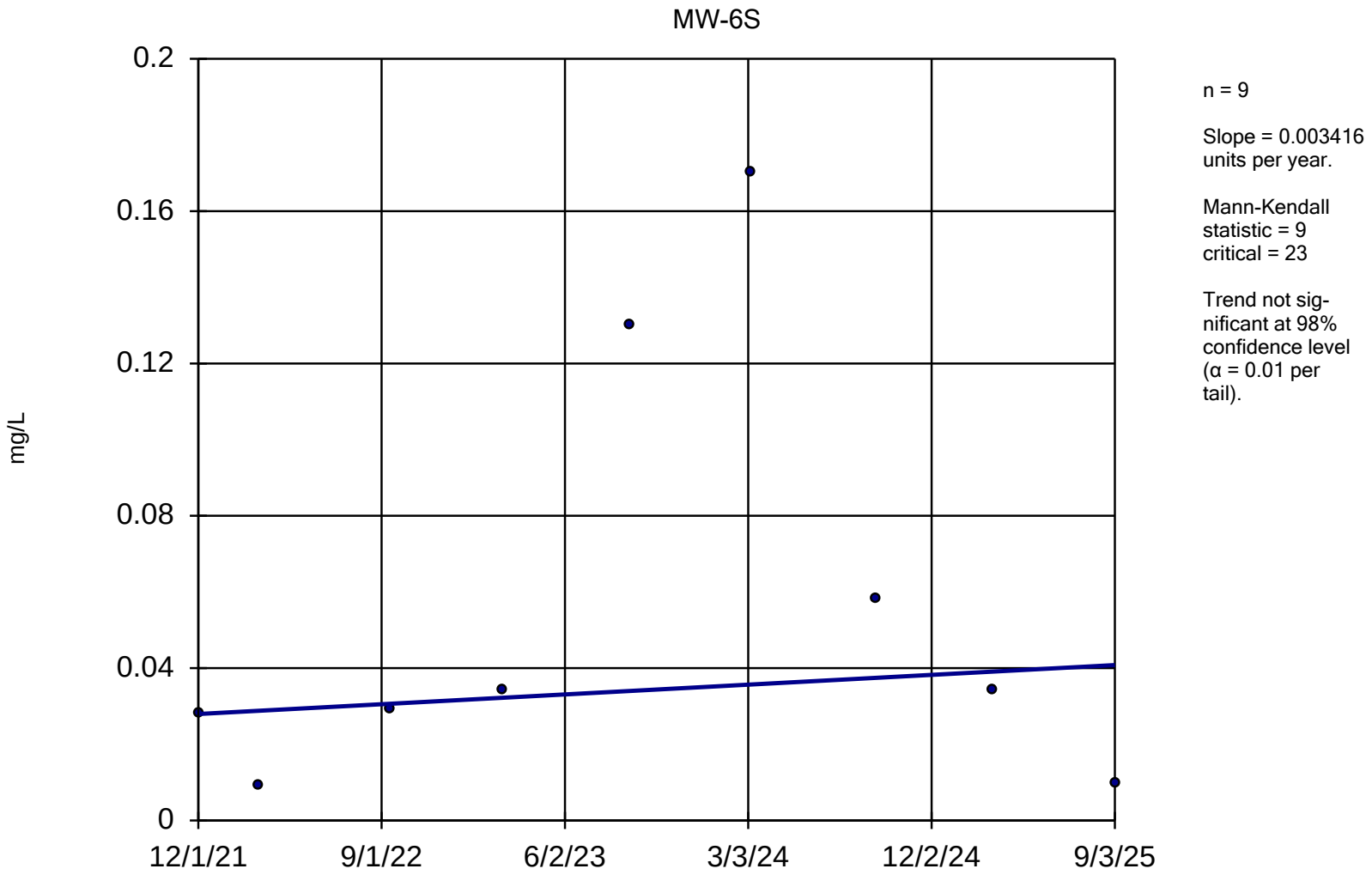
Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.8154, critical = 0.764.

Constituent: Cobalt Analysis Run 11/3/2025 3:13 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



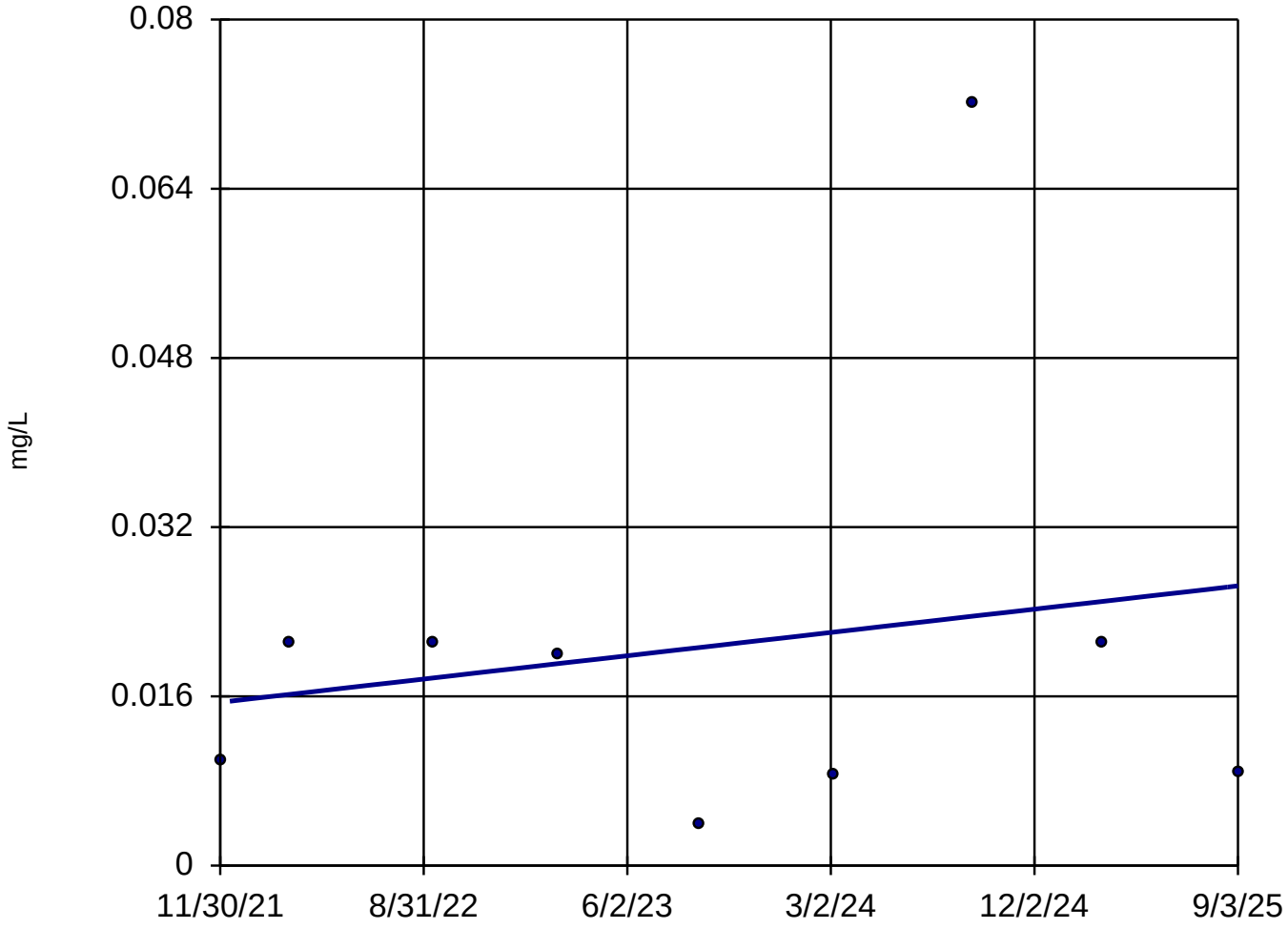
Constituent: Cobalt Analysis Run 11/3/2025 3:13 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-13S



n = 9

Slope = 0.002928 units/year.

alpha = 0.02
t = 0.5138
critical = 2.517

No significant trend.

Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.7754, critical = 0.764.

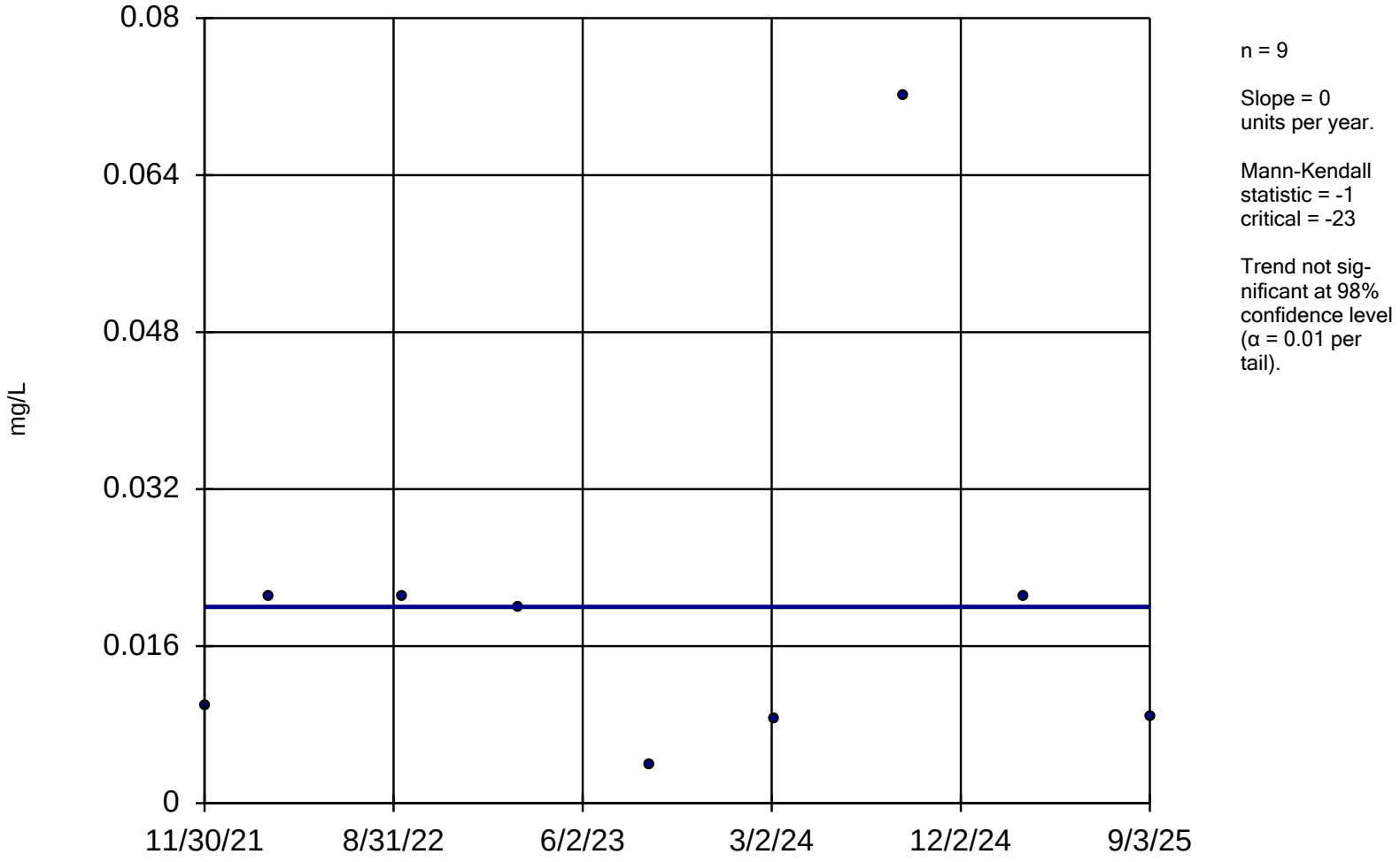
Constituent: Cobalt Analysis Run 11/3/2025 3:15 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

MW-13S



n = 9

Slope = 0
units per year.

Mann-Kendall
statistic = -1
critical = -23

Trend not sig-
nificant at 98%
confidence level
(α = 0.01 per
tail).

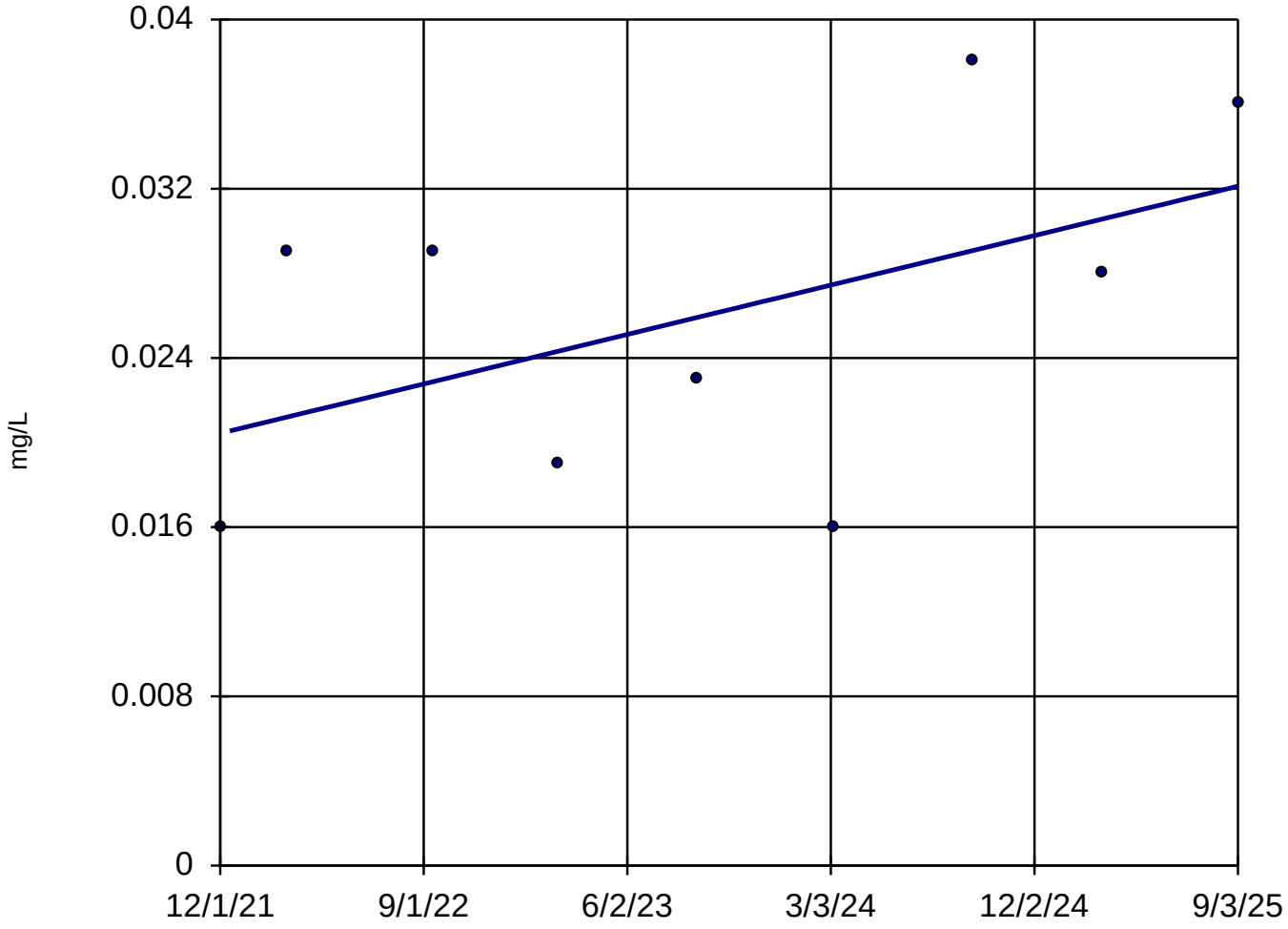
Constituent: Cobalt Analysis Run 11/3/2025 3:15 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-14S



n = 9

Slope = 0.003111 units/year.

alpha = 0.02
t = 1.568
critical = 2.517

No significant trend.

Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9308, critical = 0.764.

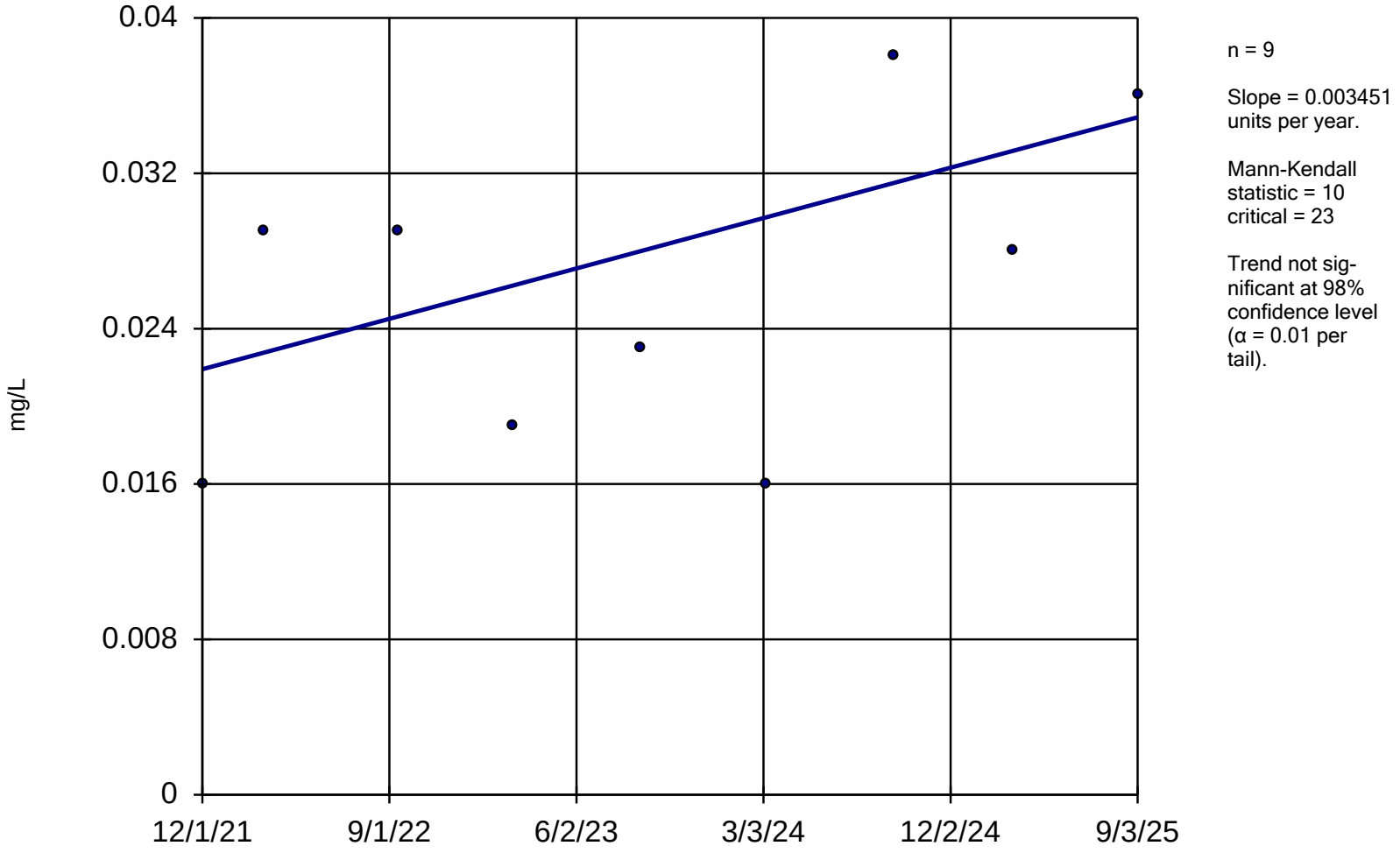
Constituent: Cobalt Analysis Run 11/3/2025 3:14 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

MW-14S



n = 9

Slope = 0.003451 units per year.

Mann-Kendall statistic = 10
critical = 23

Trend not significant at 98% confidence level (α = 0.01 per tail).

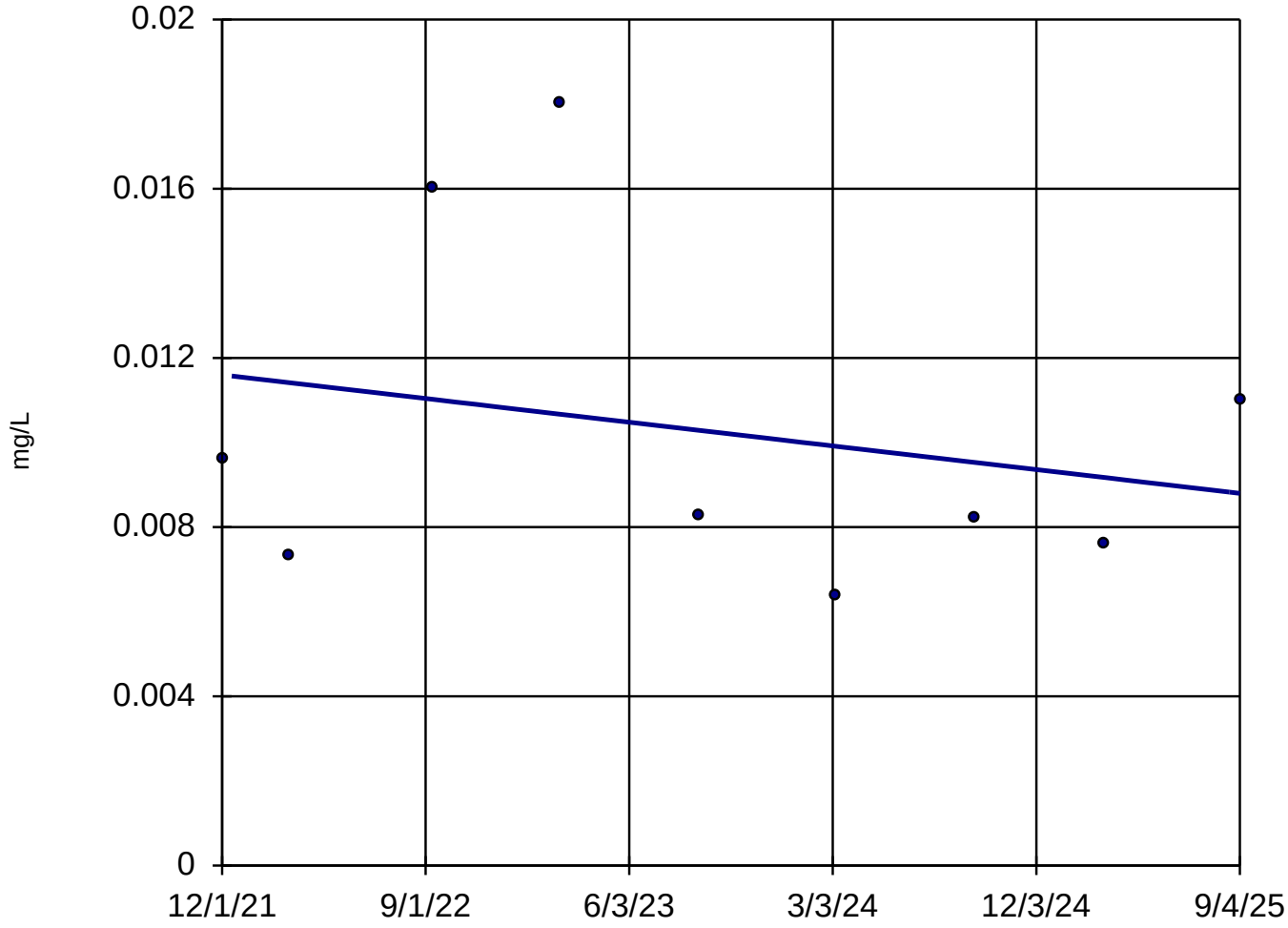
Constituent: Cobalt Analysis Run 11/3/2025 3:14 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-7D



n = 9

Slope = -0.0007448 units/year.

alpha = 0.02
t = -0.6624
critical = 2.517

No significant trend.

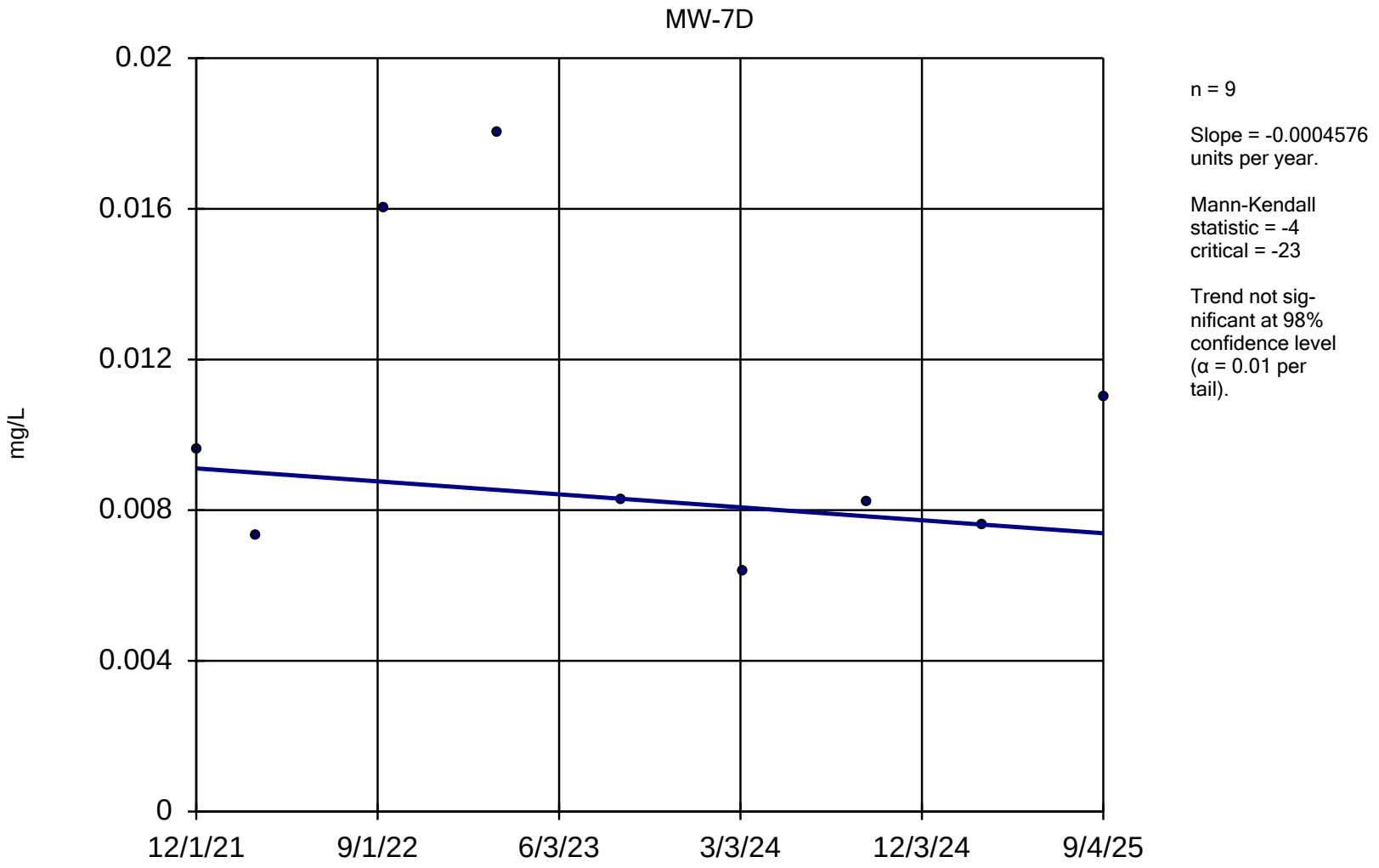
Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.8641, critical = 0.764.

Constituent: Arsenic Analysis Run 11/3/2025 3:24 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



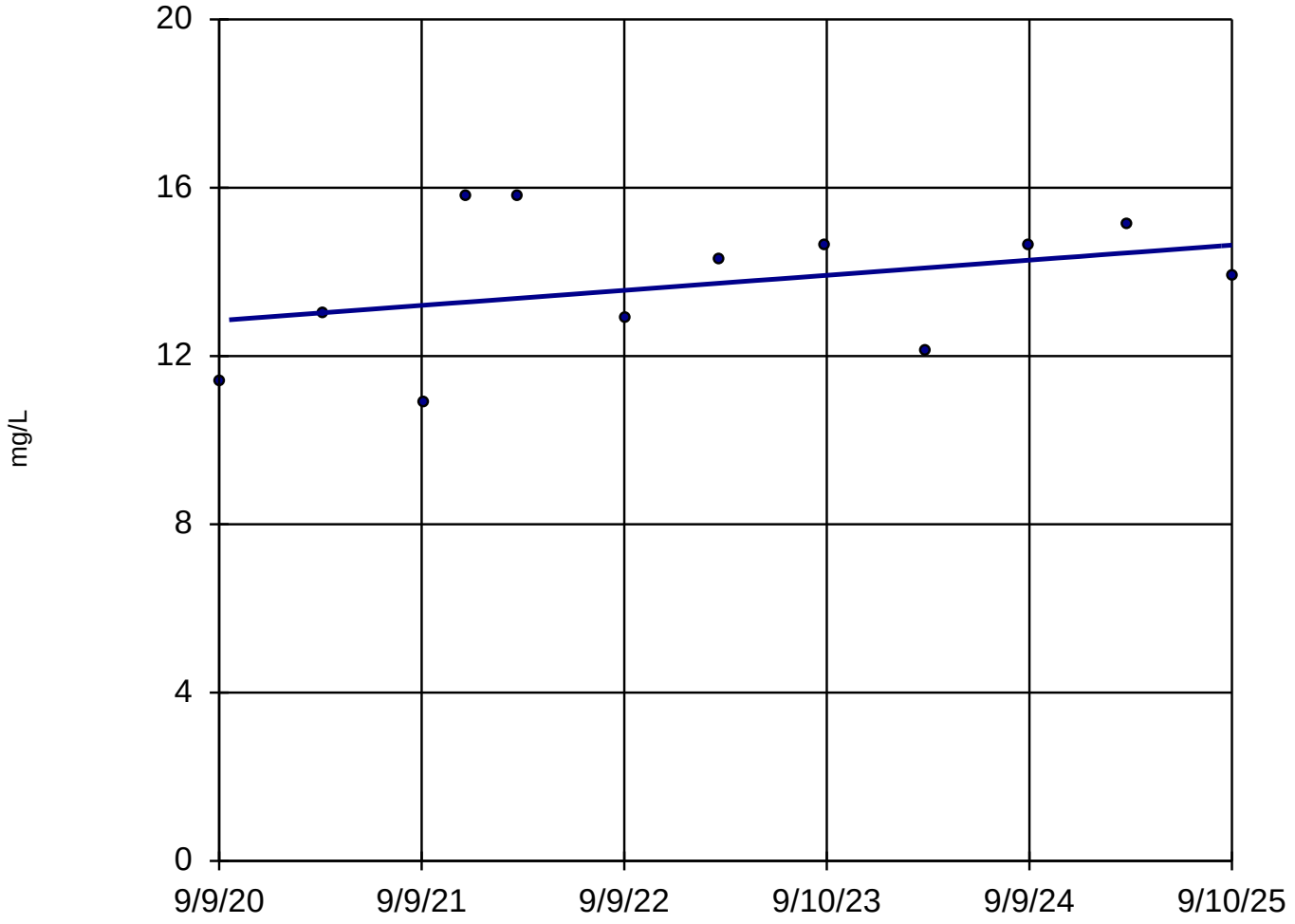
Constituent: Arsenic Analysis Run 11/3/2025 3:24 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-5D



n = 12

Slope = 0.3583 units/year.

alpha = 0.02
t = 1.194
critical = 2.359

No significant trend.

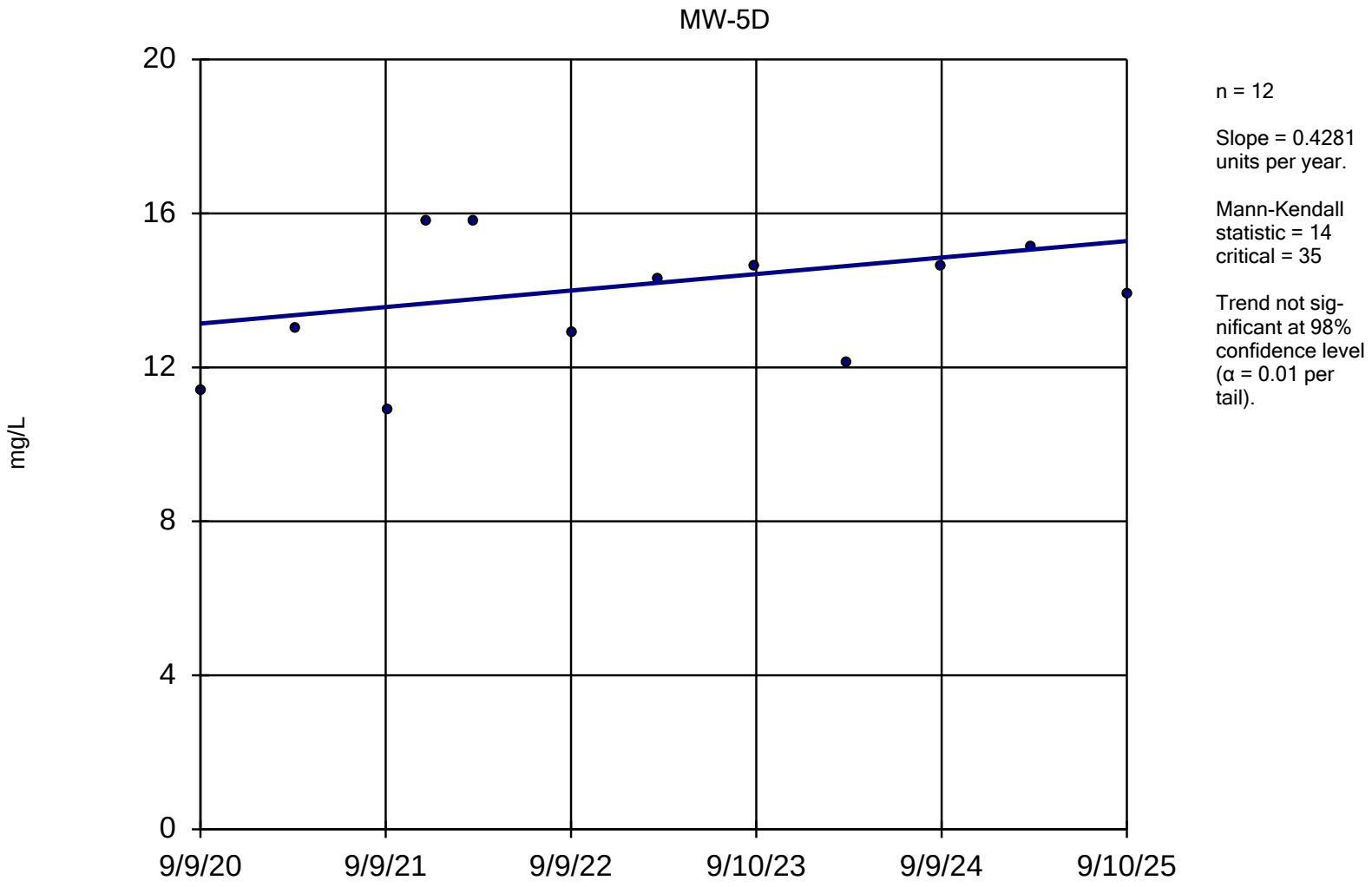
Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9475, critical = 0.805.

Constituent: Boron Analysis Run 11/3/2025 3:25 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



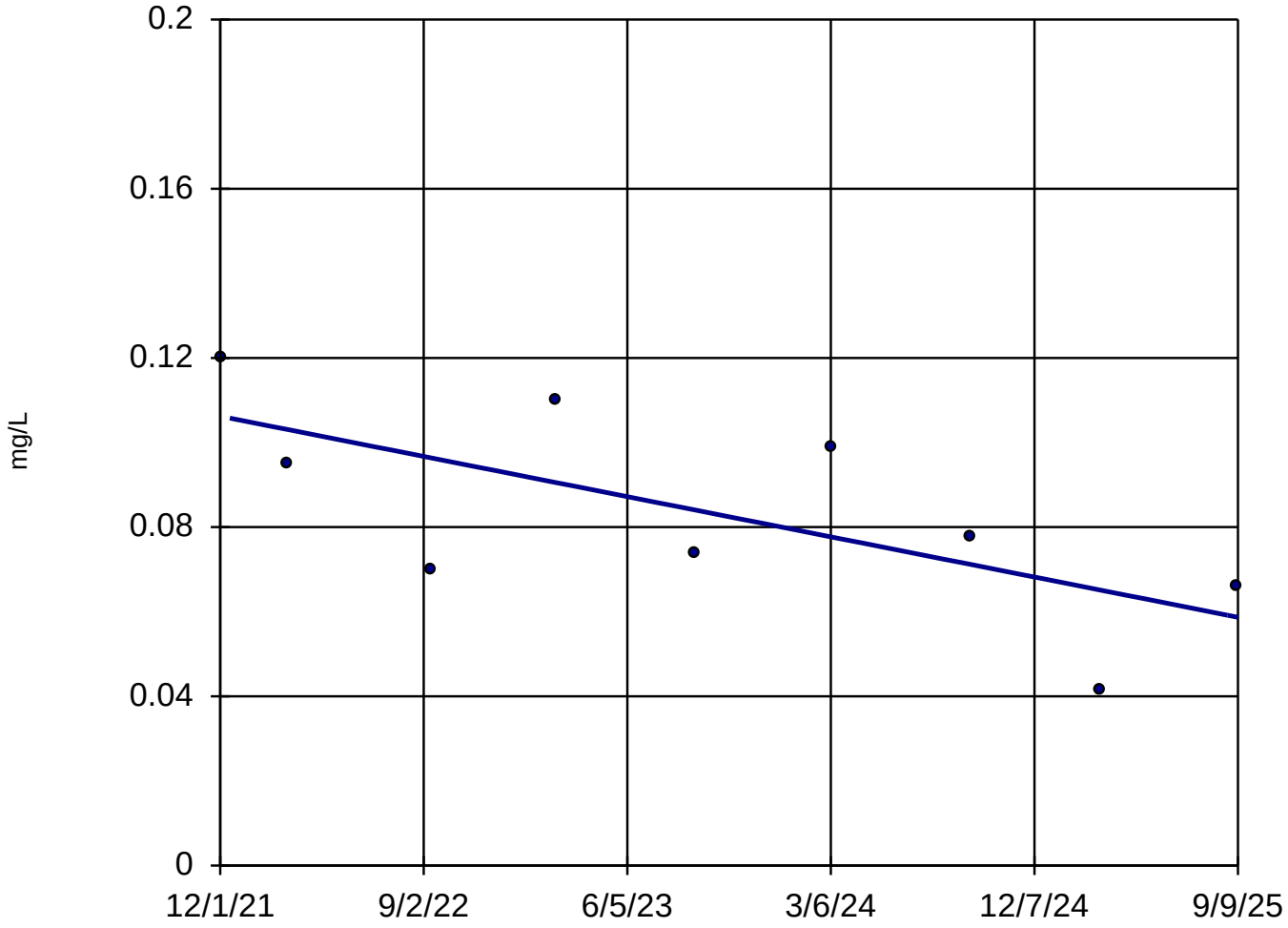
Constituent: Boron Analysis Run 11/3/2025 3:26 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-3D



n = 9

Slope = -0.01259 units/year.

alpha = 0.02
t = -2.49
critical = 2.517

No significant trend.

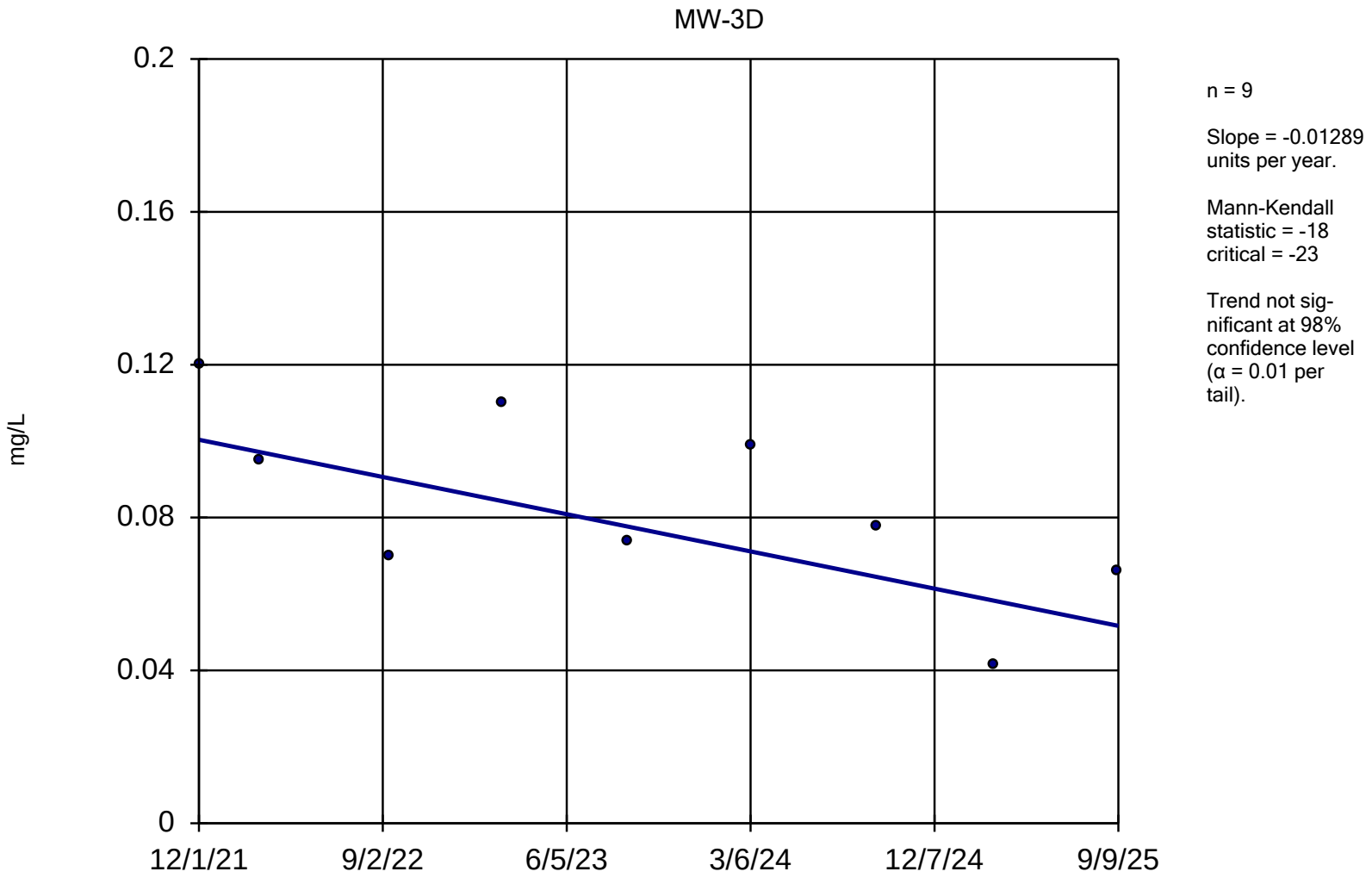
Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9165, critical = 0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:27 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



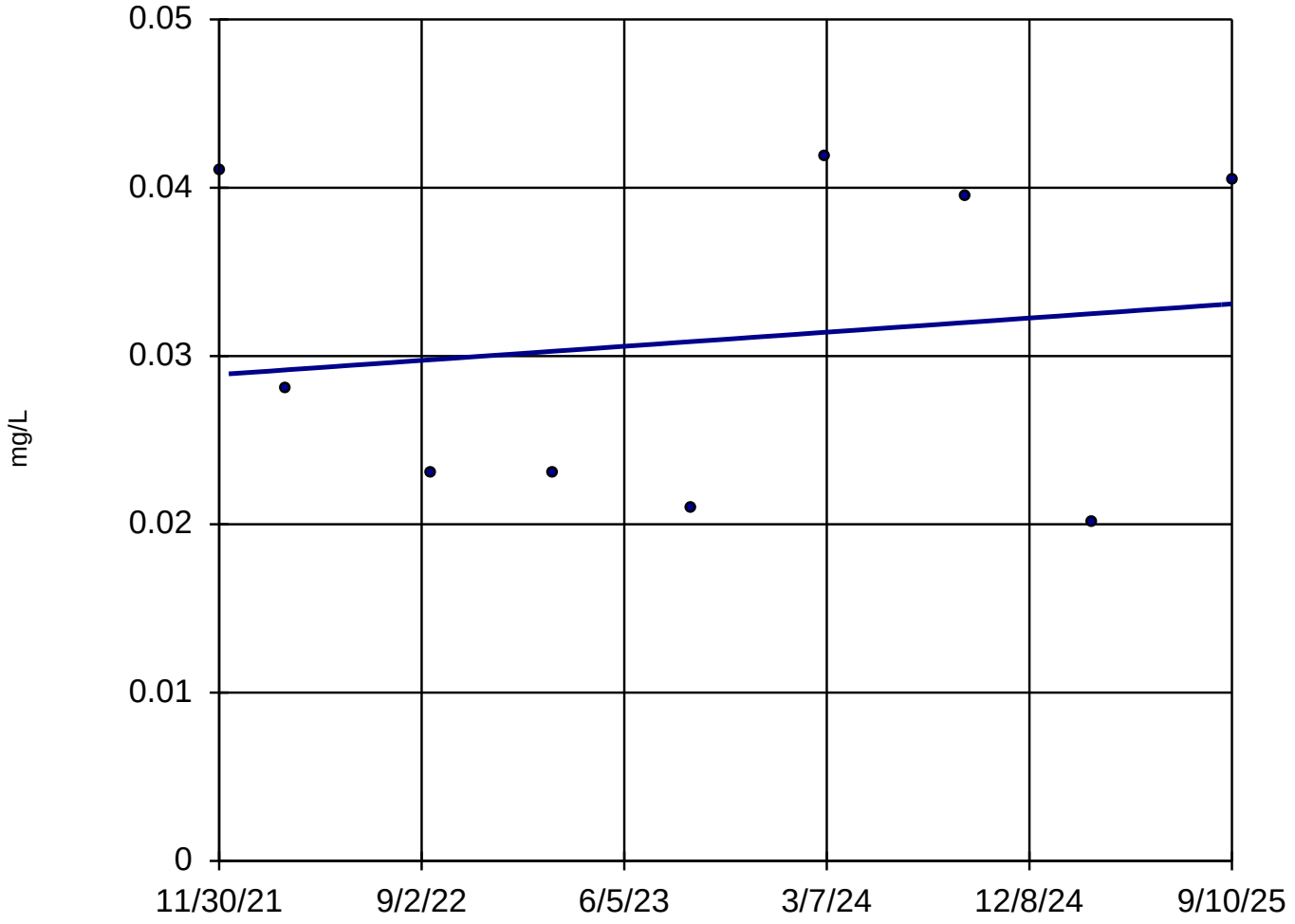
Constituent: Lithium Analysis Run 11/3/2025 3:28 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-5D



n = 9

Slope = 0.001111 units/year.

alpha = 0.02
t = 0.4124
critical = 2.517

No significant trend.

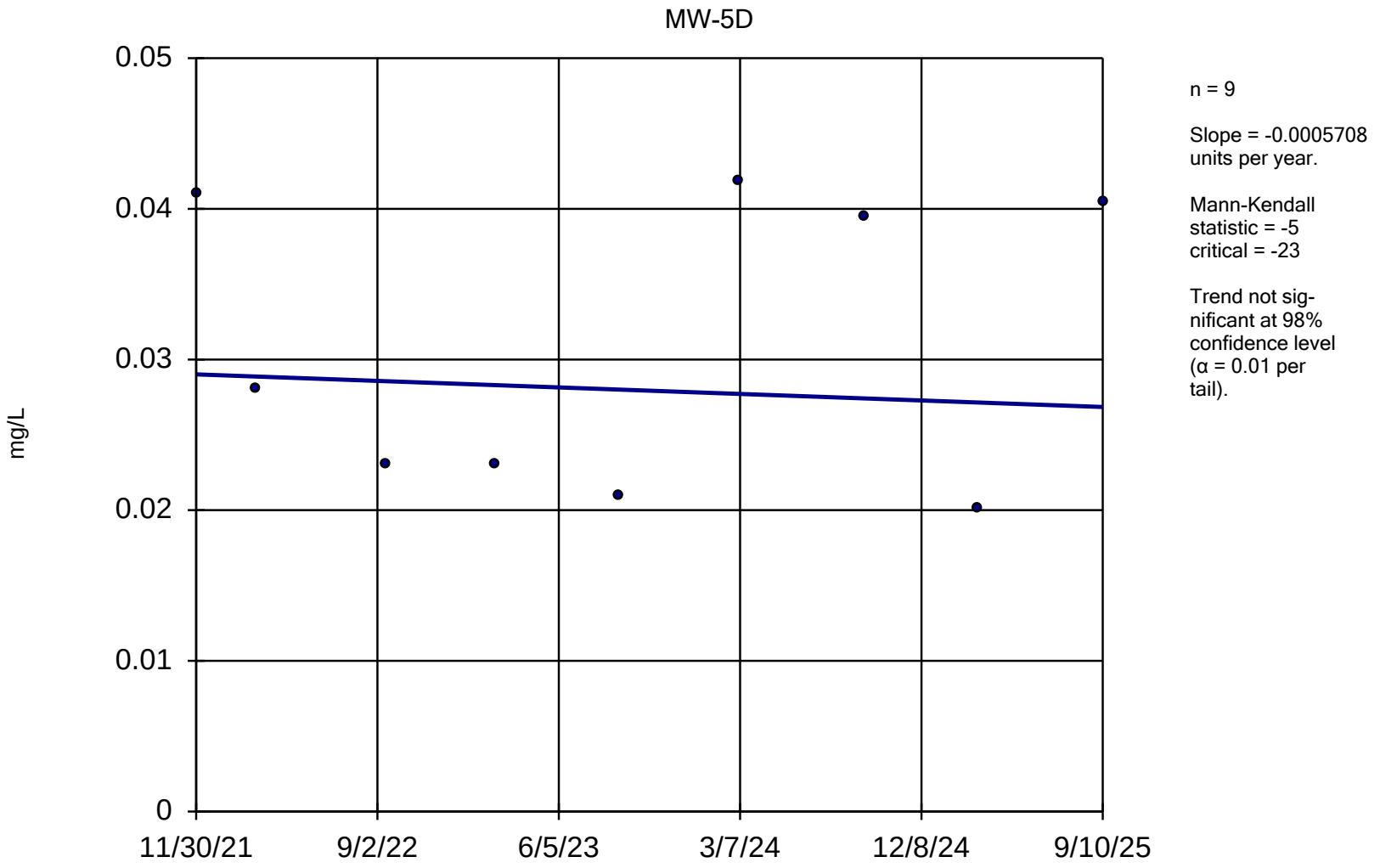
Normality test on residuals: Shapiro Wilk @alpha = 0.01, calculated = 0.89, critical = 0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:28 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



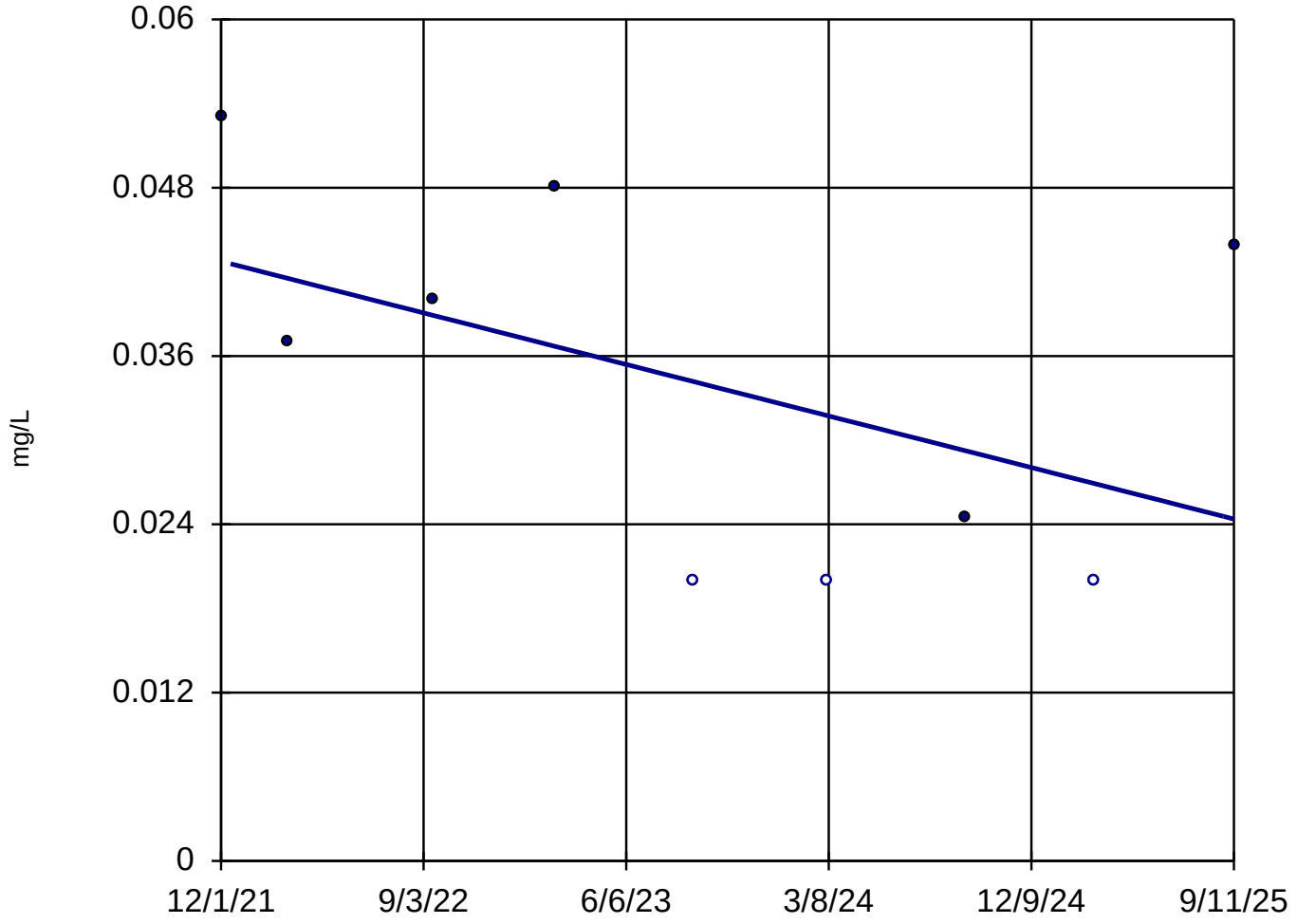
Constituent: Lithium Analysis Run 11/3/2025 3:29 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG
Hollow symbols indicate censored values.

Linear Regression

MW-9D



n = 9
33.33% NDs

Slope = -0.004863 units/year.

alpha = 0.02
t = -1.501
critical = 2.517

No significant trend.

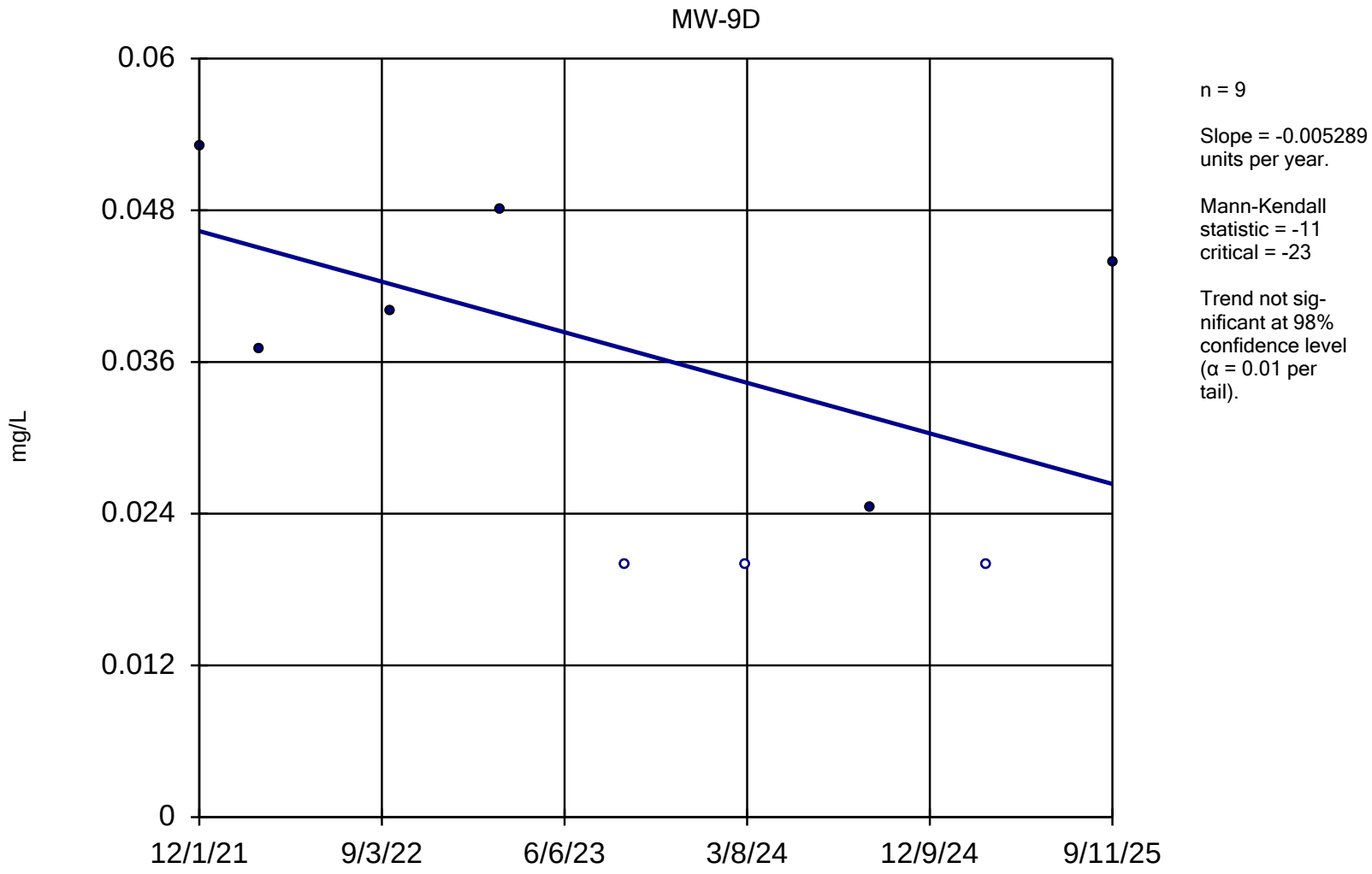
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9351, critical
= 0.764.

Constituent: Lithium Analysis Run 11/3/2025 3:29 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator



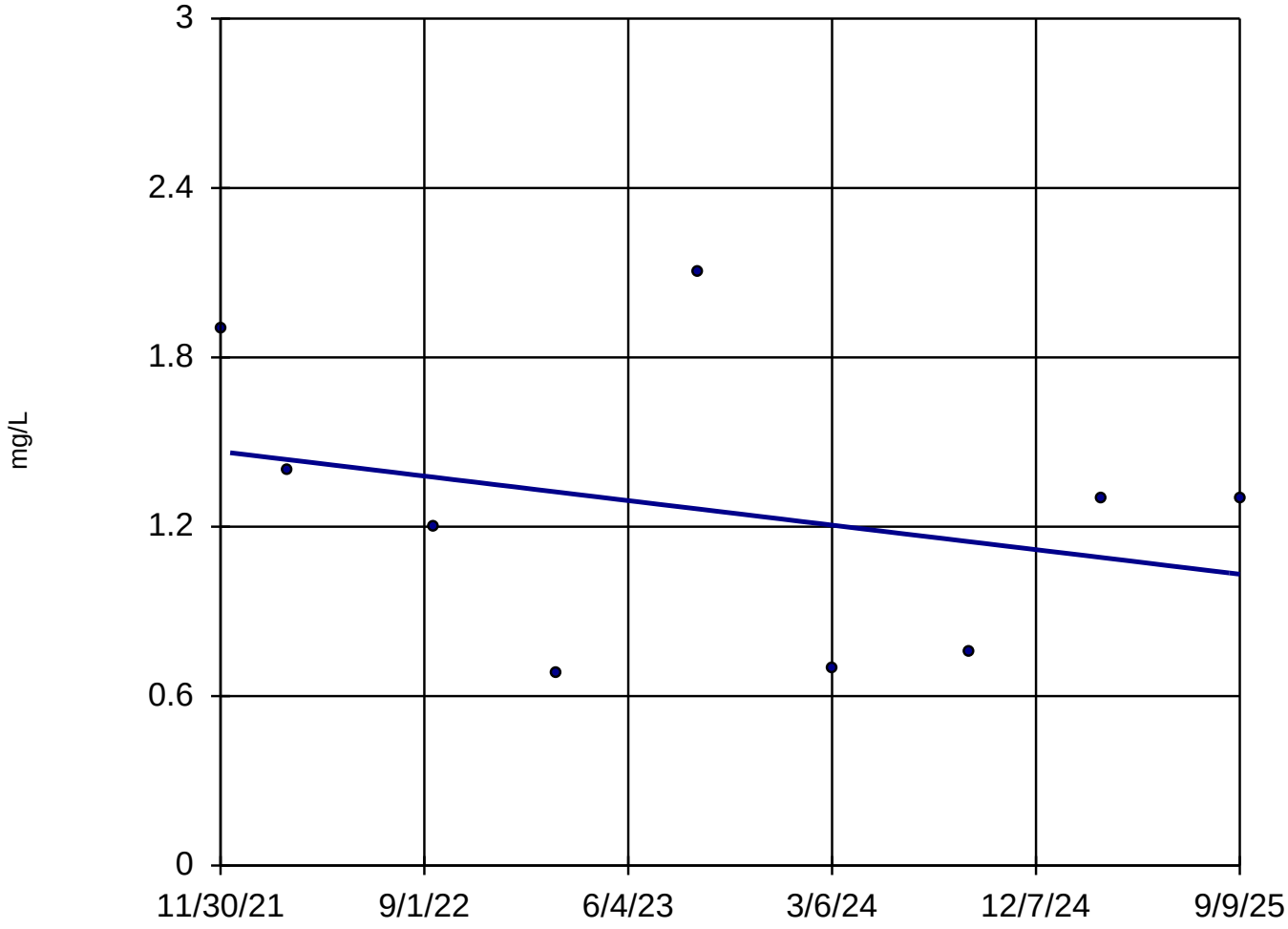
Constituent: Lithium Analysis Run 11/3/2025 3:30 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-2D



n = 9

Slope = -0.115
units/year.

alpha = 0.02
t = -0.8416
critical = 2.517

No significant trend.

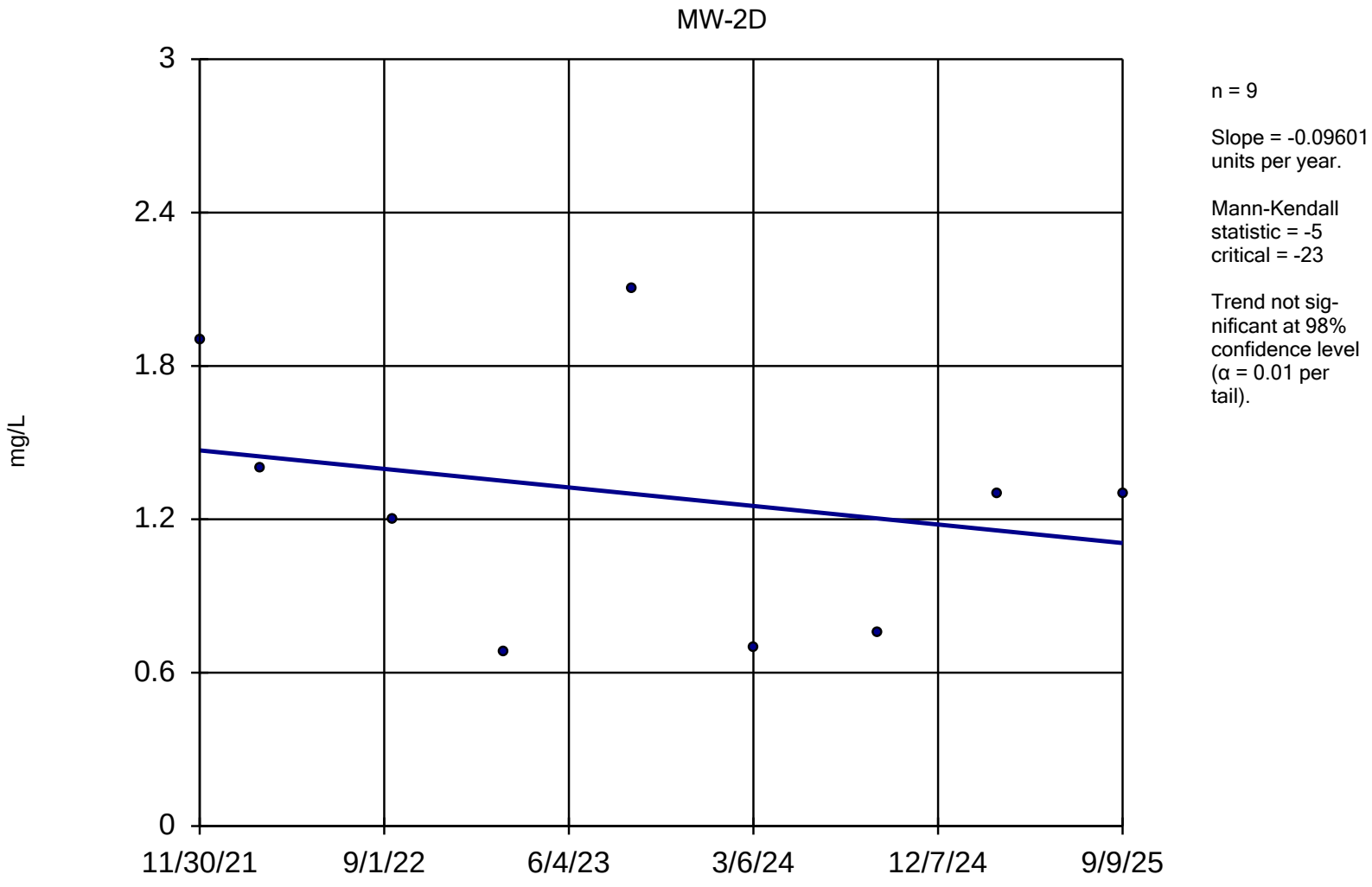
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9707, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:09 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



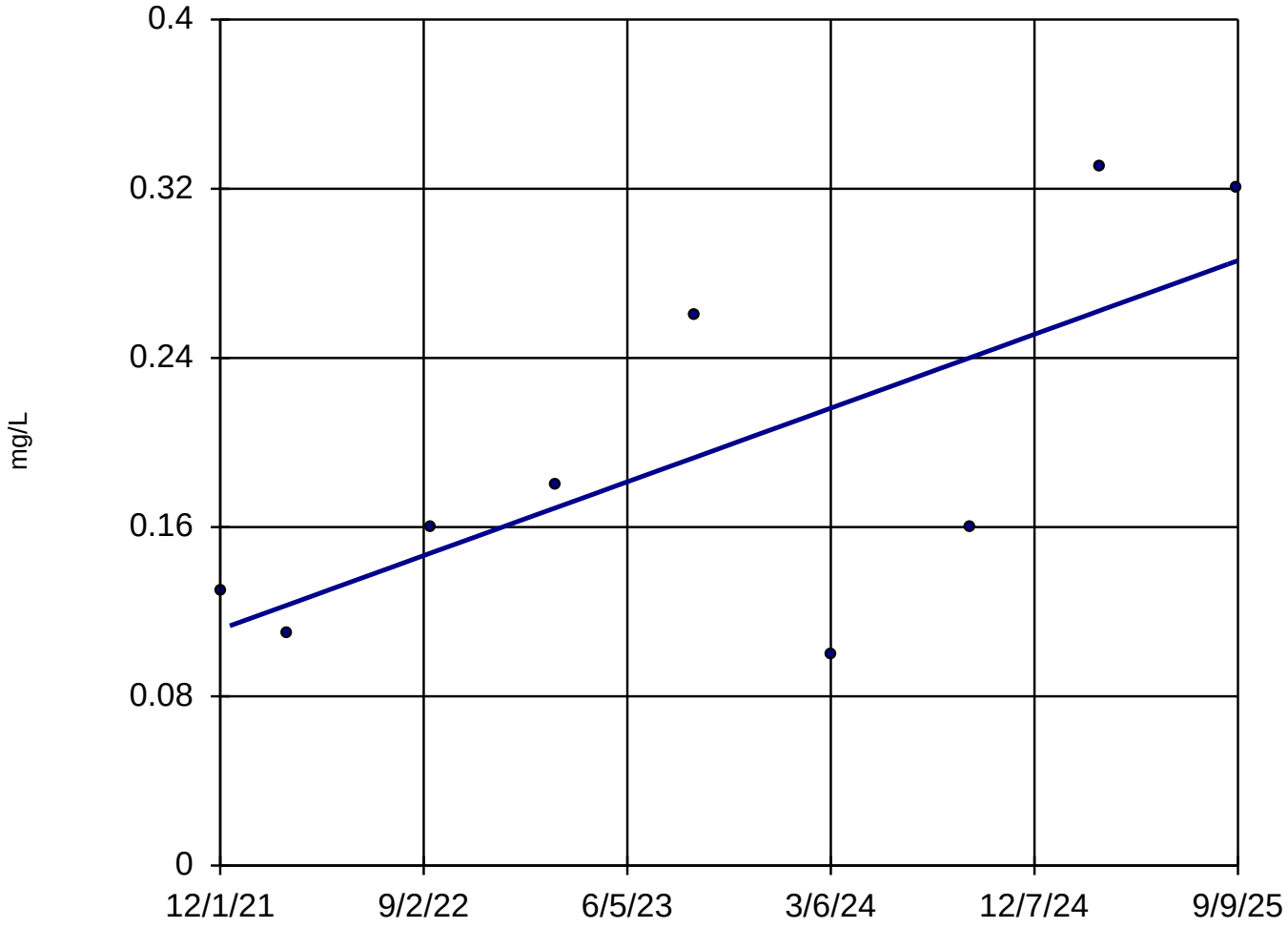
Constituent: Molybdenum Analysis Run 11/3/2025 3:20 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-3D



n = 9

Slope = 0.04621
units/year.

alpha = 0.02
t = 2.615
critical = 2.517

Significant increasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.8918, critical
= 0.764.

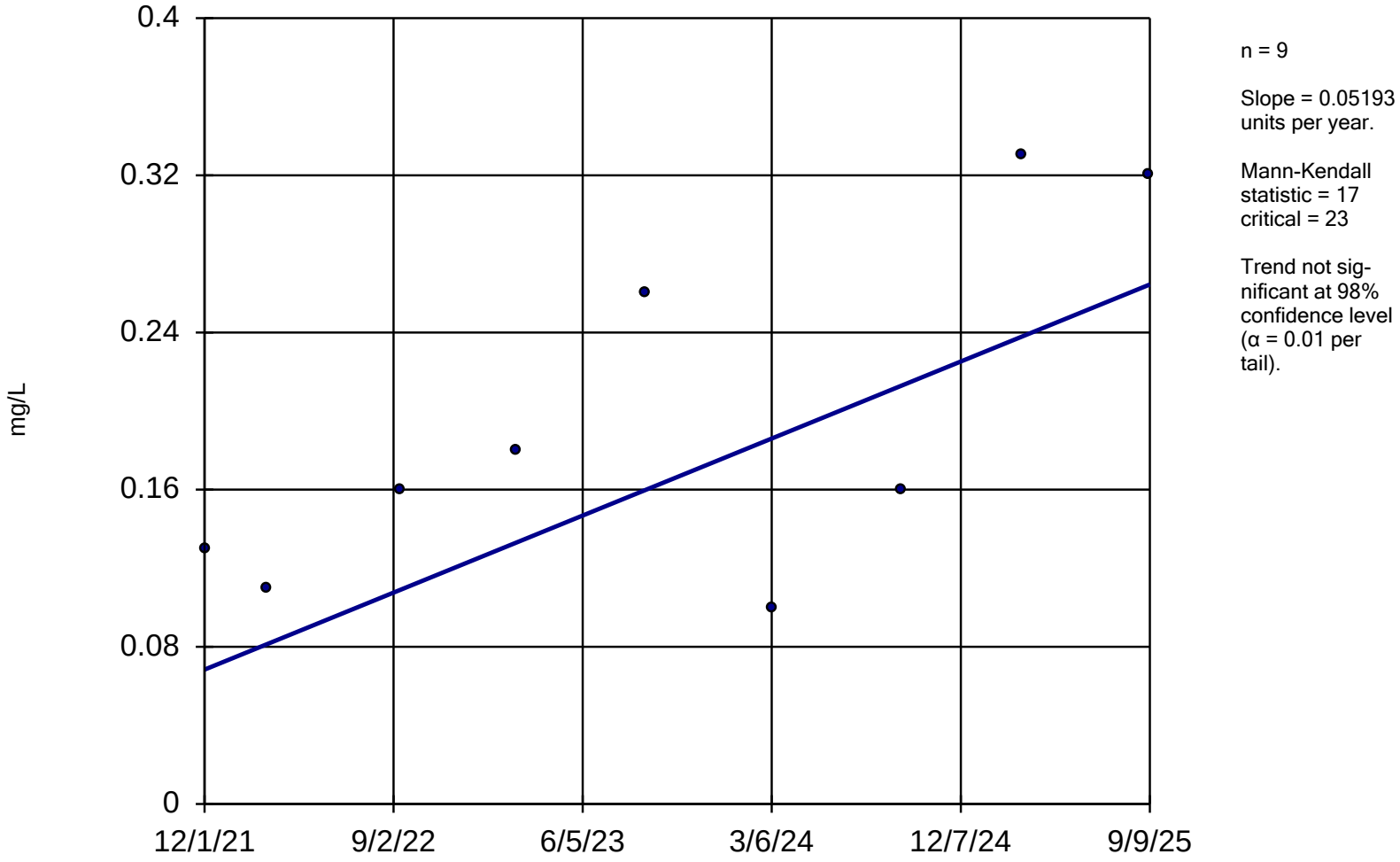
Constituent: Molybdenum Analysis Run 11/3/2025 3:10 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

MW-3D



n = 9

Slope = 0.05193 units per year.

Mann-Kendall statistic = 17
critical = 23

Trend not significant at 98% confidence level (α = 0.01 per tail).

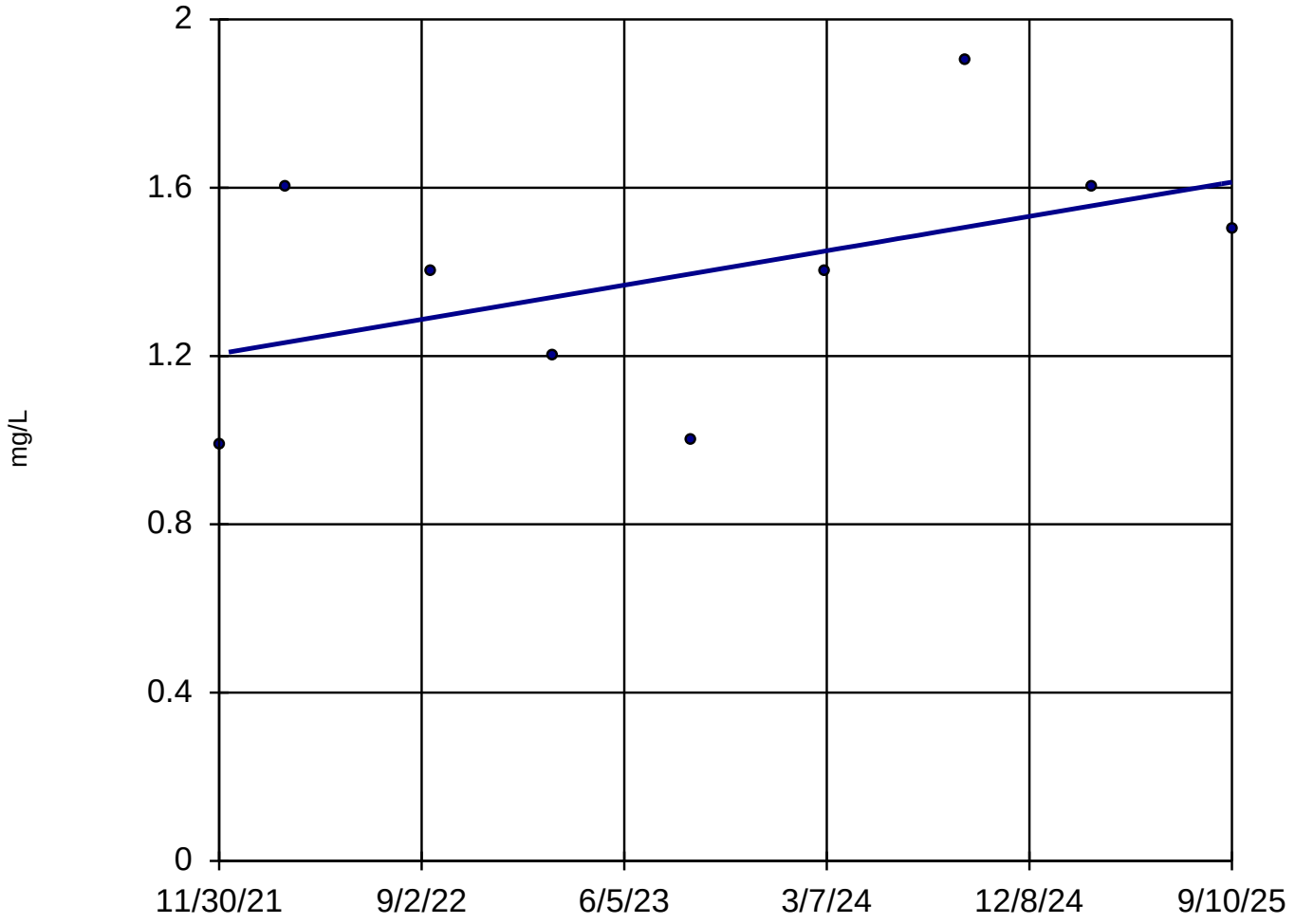
Constituent: Molybdenum Analysis Run 11/3/2025 3:20 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-4D



n = 9

Slope = 0.108
units/year.

alpha = 0.02
t = 1.459
critical = 2.517

No significant trend.

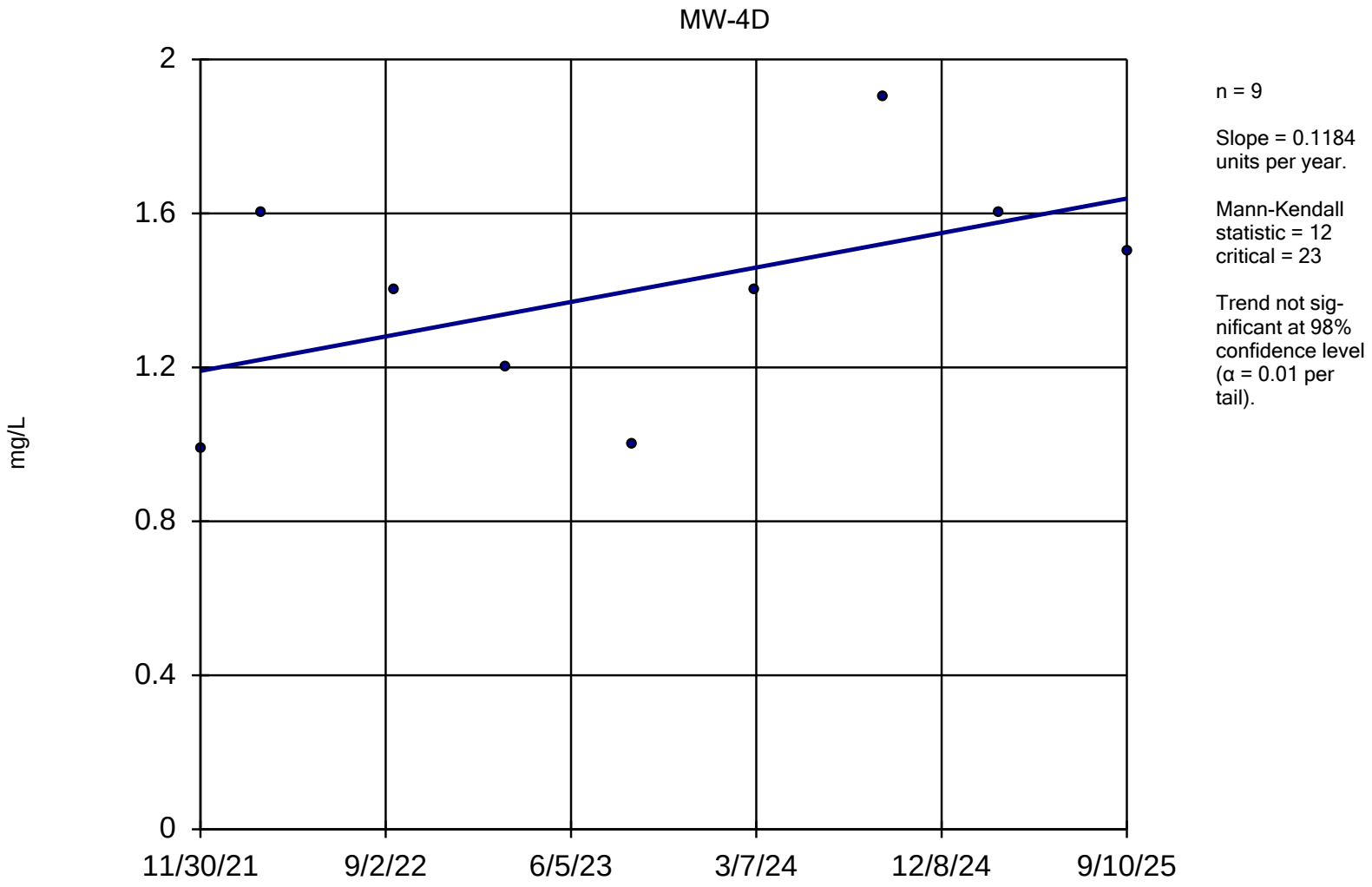
Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9516, critical
= 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:21 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



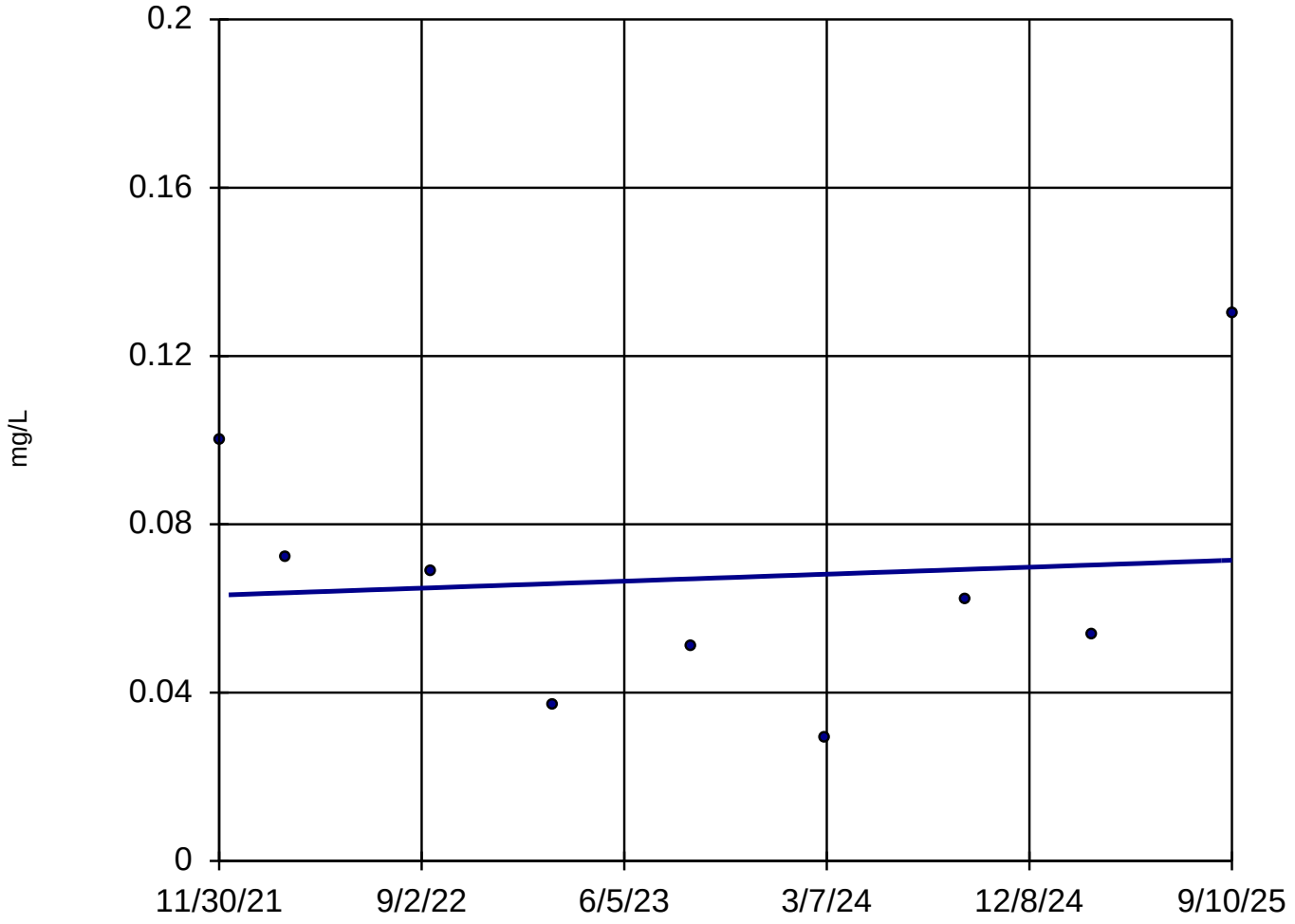
Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-4S



n = 9

Slope = 0.002195 units/year.

alpha = 0.02
t = 0.2473
critical = 2.517

No significant trend.

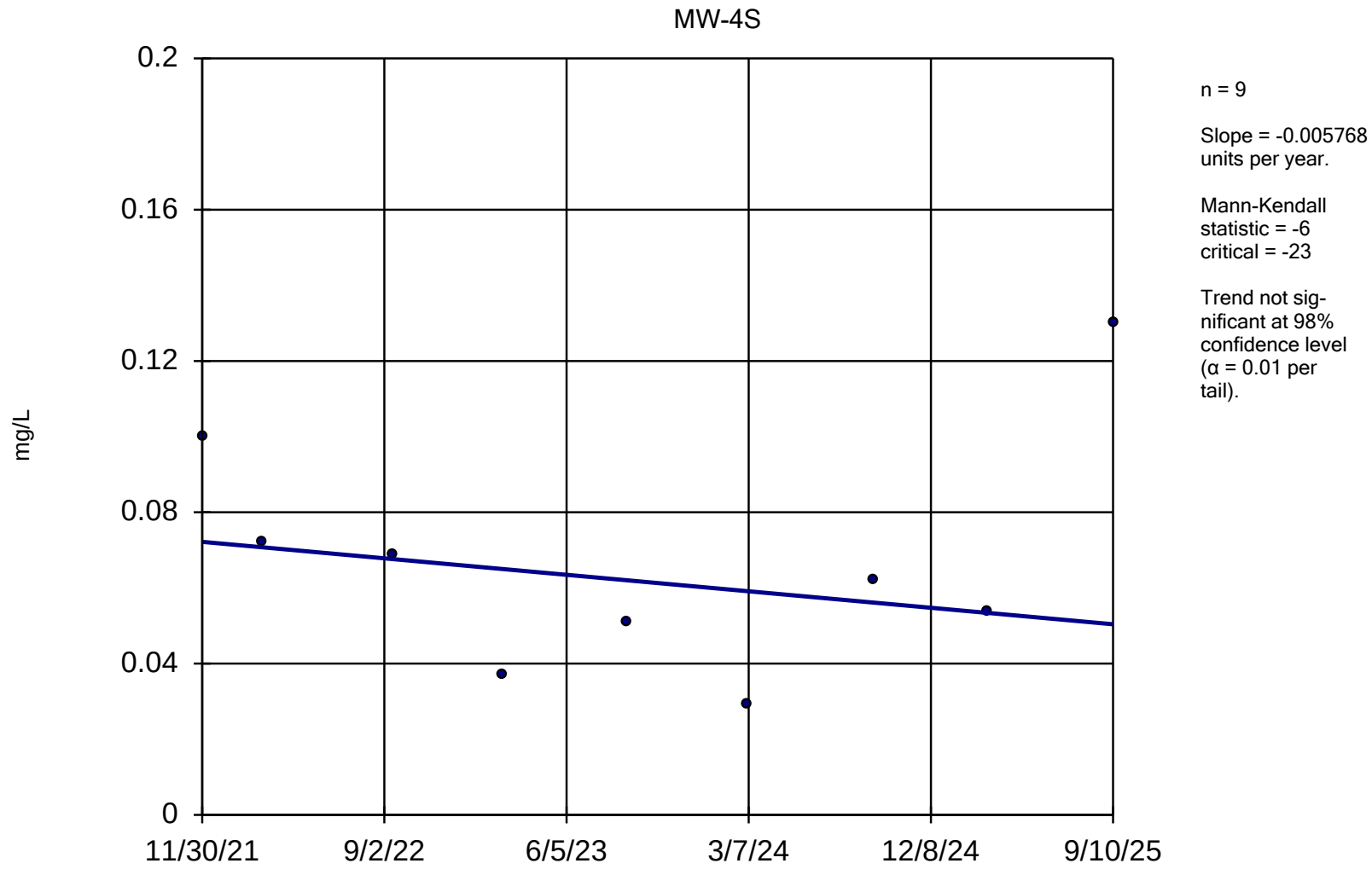
Normality test on residuals: Shapiro Wilk @alpha = 0.01, calculated = 0.938, critical = 0.764.

Constituent: Molybdenum Analysis Run 11/3/2025 3:16 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



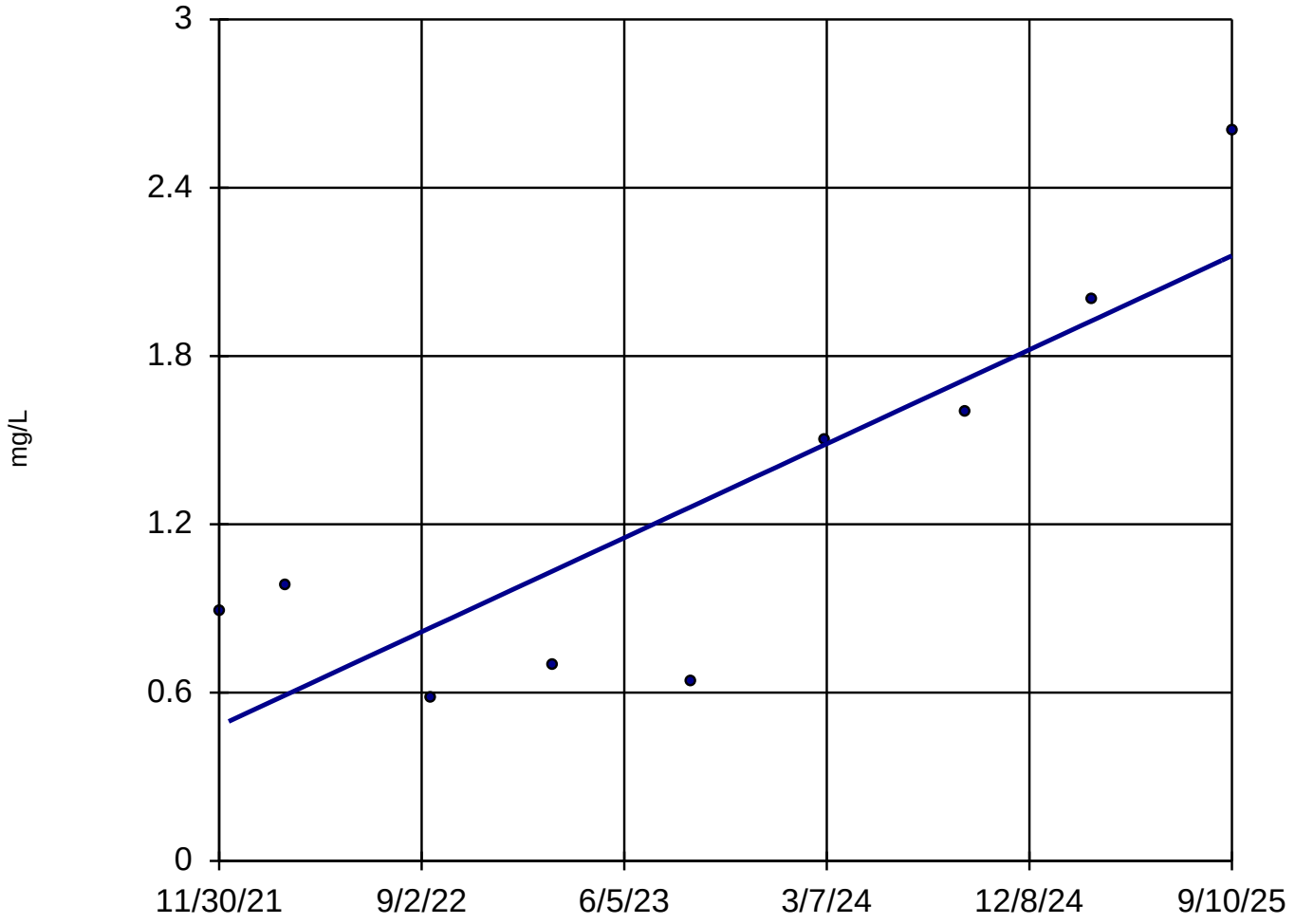
Constituent: Molybdenum Analysis Run 11/3/2025 3:16 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-5D



n = 9

Slope = 0.4435
units/year.

alpha = 0.02
t = 4.212
critical = 2.517

Significant increasing trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9362, critical
= 0.764.

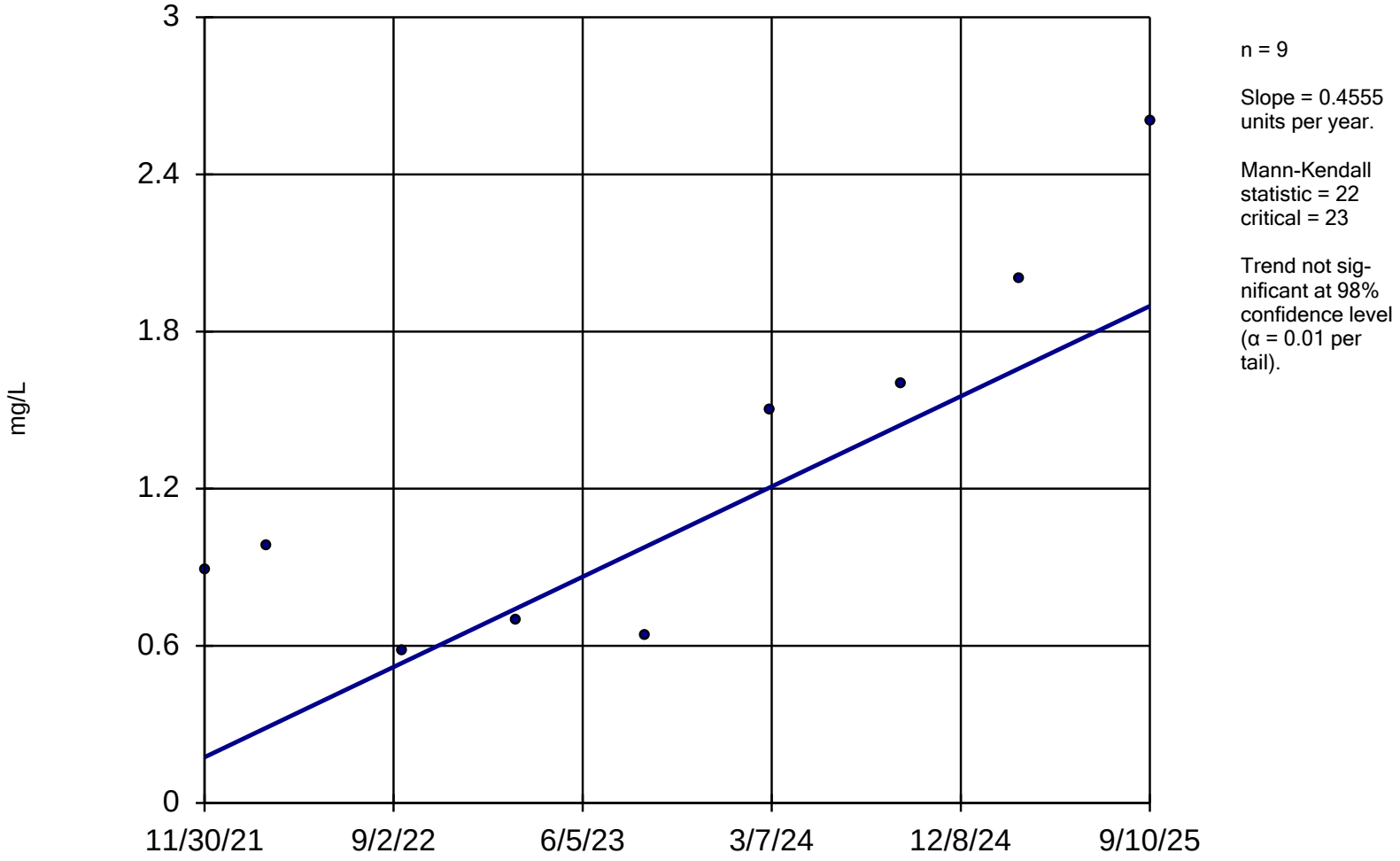
Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

MW-5D



n = 9

Slope = 0.4555 units per year.

Mann-Kendall statistic = 22
critical = 23

Trend not significant at 98% confidence level (α = 0.01 per tail).

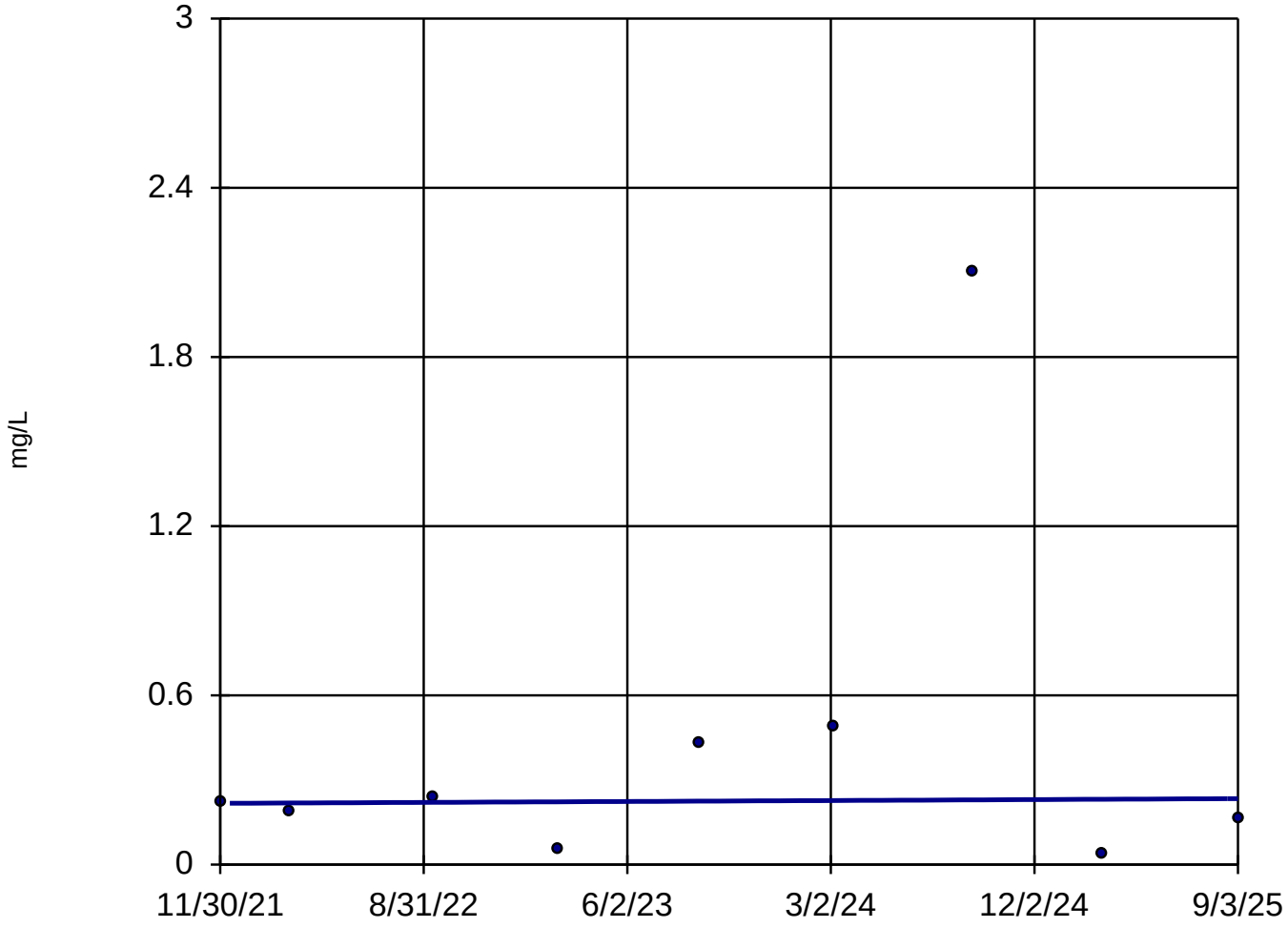
Constituent: Molybdenum Analysis Run 11/3/2025 3:23 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-13D



n = 9

Slope = 0.01967
natural log units/year.

alpha = 0.02
t = 0.05807
critical = 2.517

No significant trend.

Normality test on residuals:
Shapiro Wilk @alpha
= 0.01, calculated
= 0.9604 after natural
log transformation,
critical = 0.764.

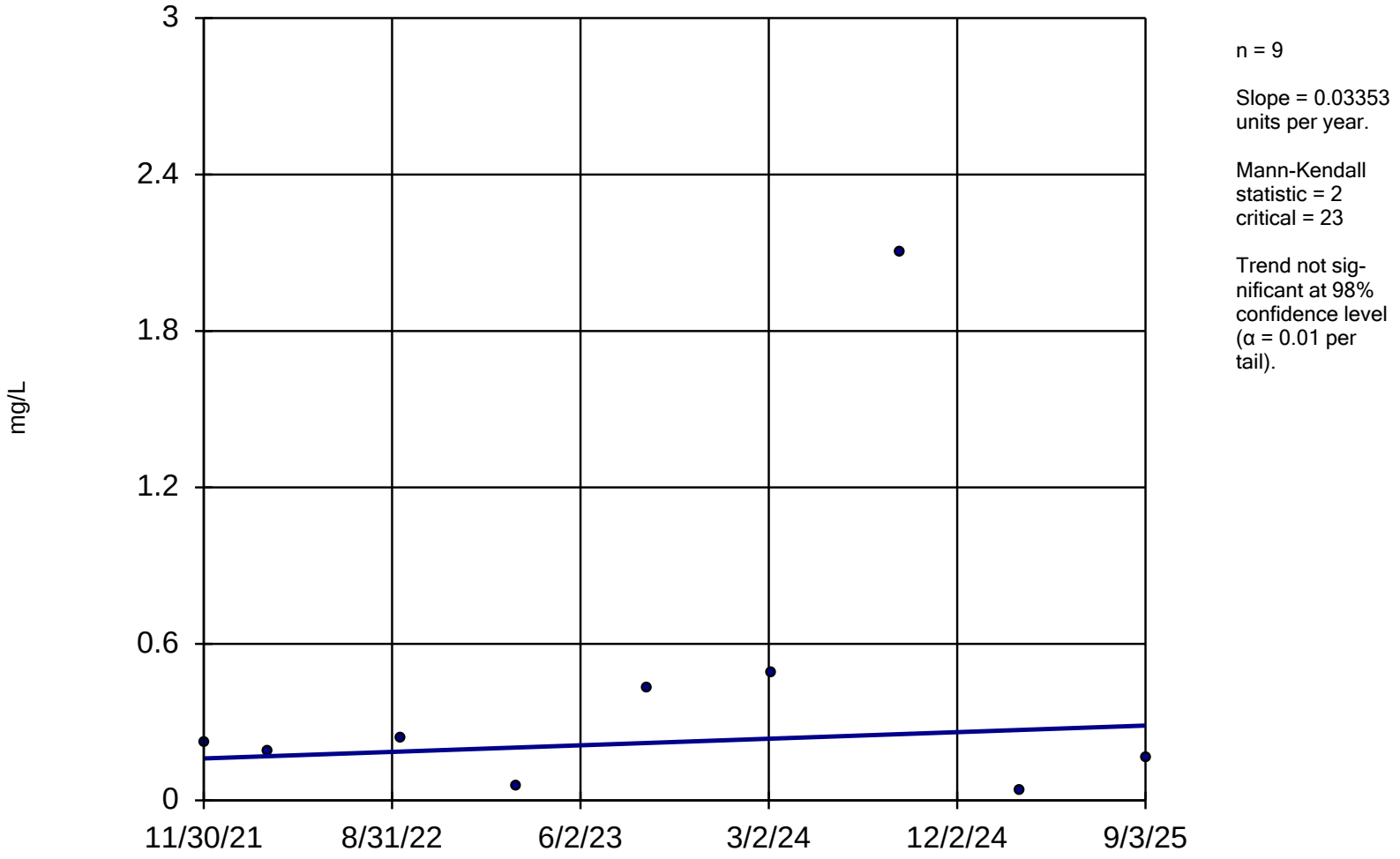
Constituent: Molybdenum Analysis Run 11/3/2025 3:22 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

MW-13D



n = 9

Slope = 0.03353 units per year.

Mann-Kendall statistic = 2
critical = 23

Trend not significant at 98% confidence level (α = 0.01 per tail).

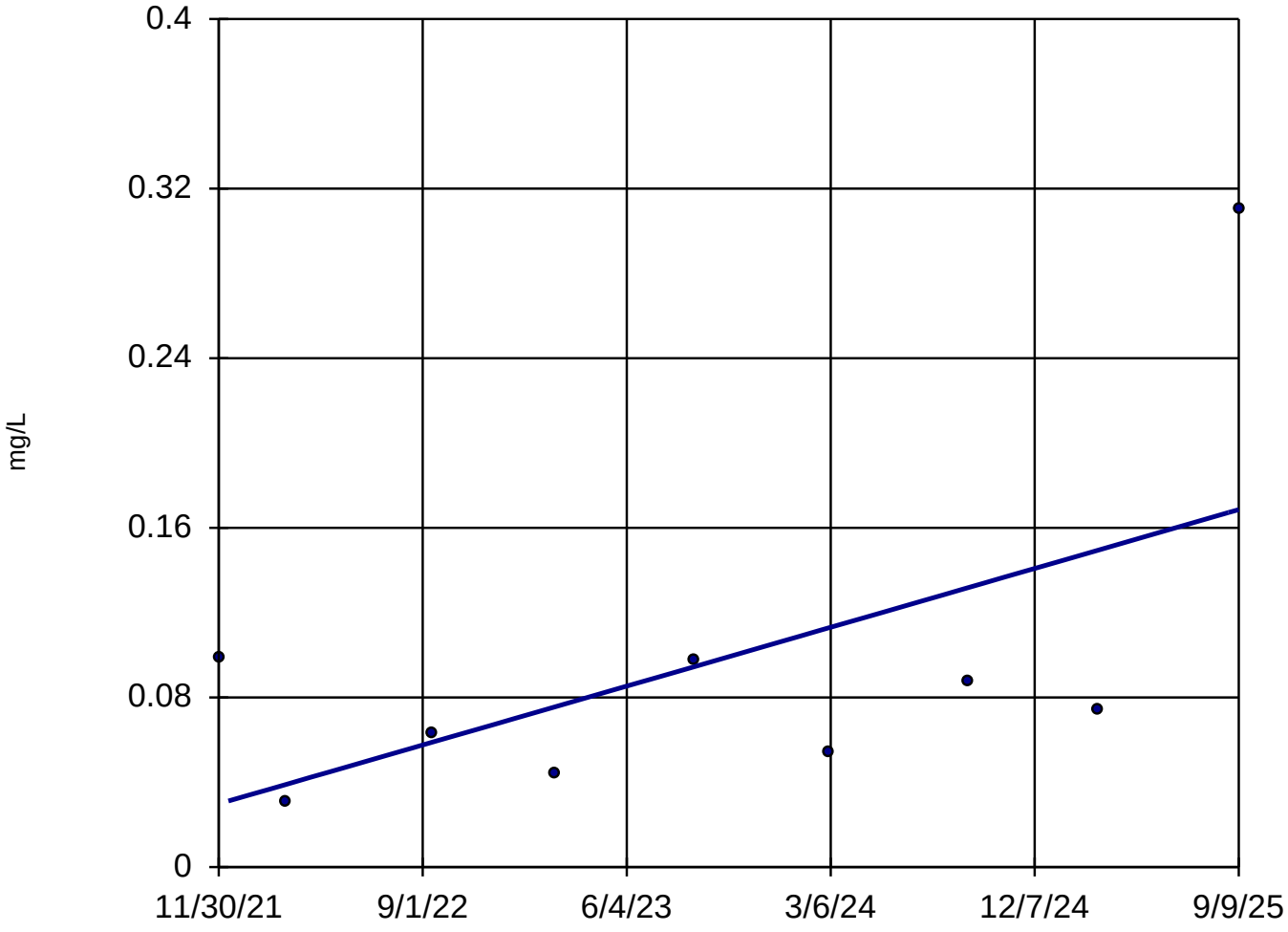
Constituent: Molybdenum Analysis Run 11/3/2025 3:23 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

SW-4



n = 9

Slope = 0.03676 units/year.

alpha = 0.02
t = 1.901
critical = 2.517

No significant trend.

Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.8968, critical = 0.764.

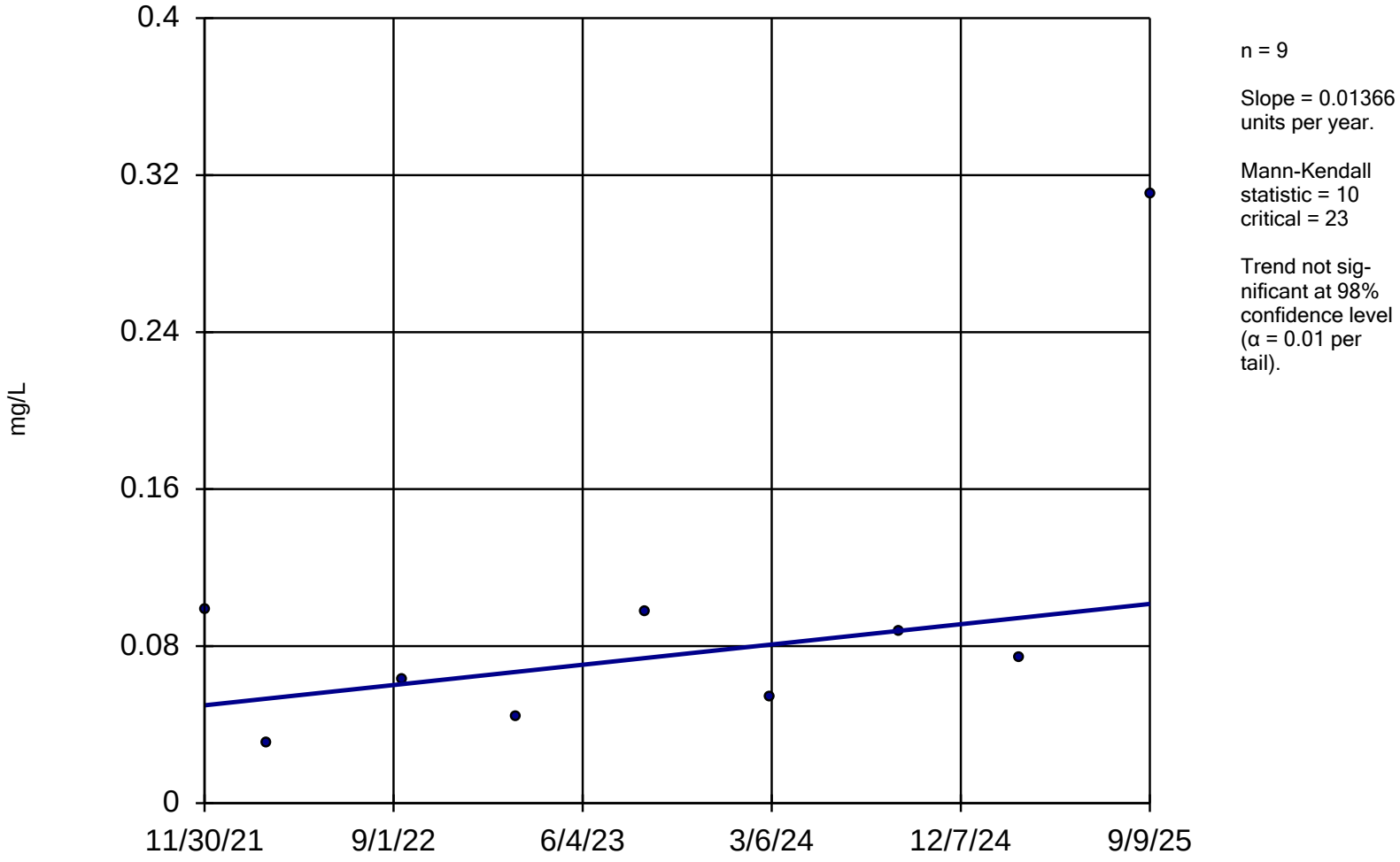
Constituent: Molybdenum Analysis Run 11/3/2025 3:06 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator

SW-4



n = 9

Slope = 0.01366 units per year.

Mann-Kendall statistic = 10
critical = 23

Trend not significant at 98% confidence level (α = 0.01 per tail).

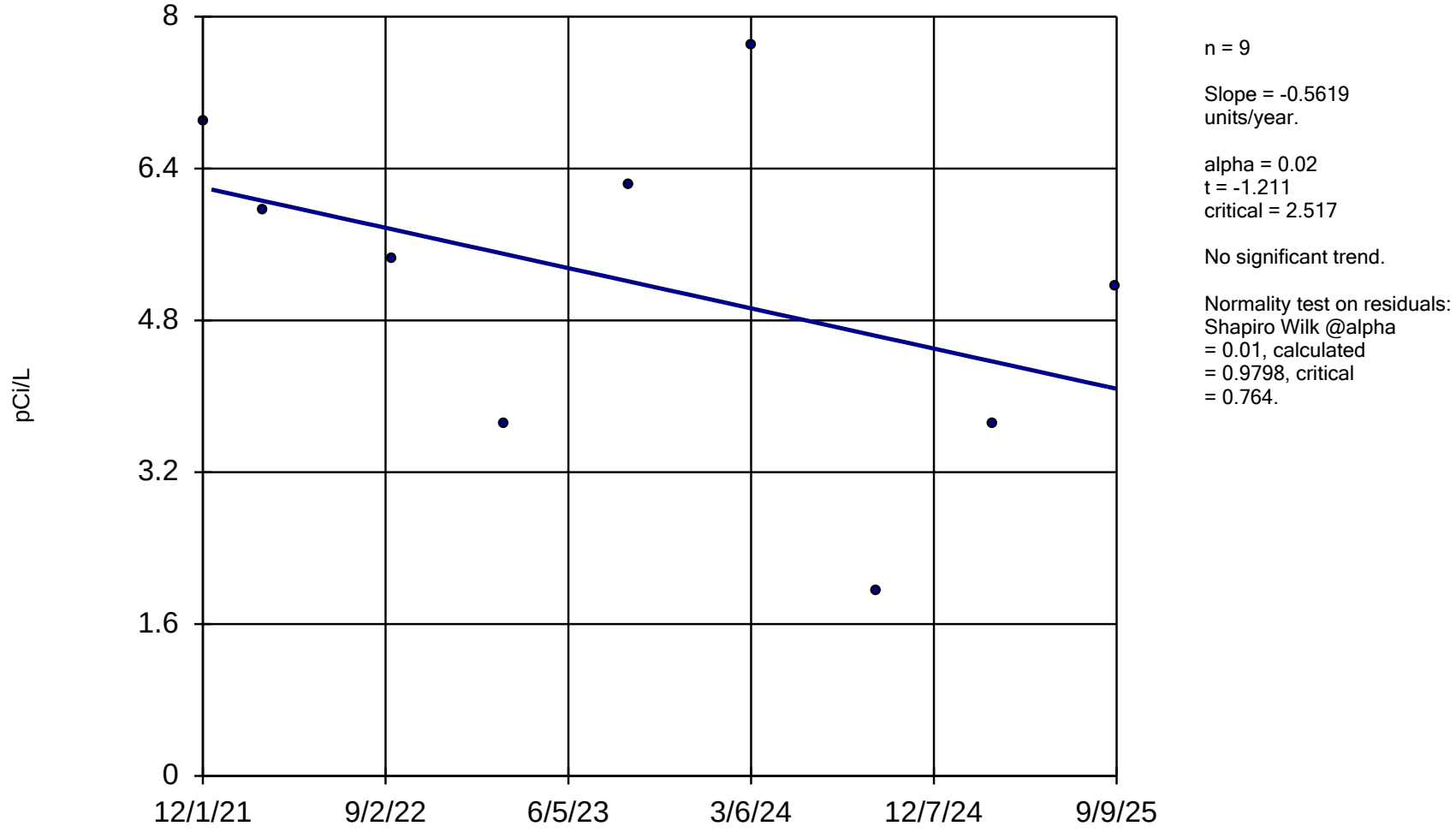
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R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Linear Regression

MW-3D



n = 9

Slope = -0.5619 units/year.

alpha = 0.02
t = -1.211
critical = 2.517

No significant trend.

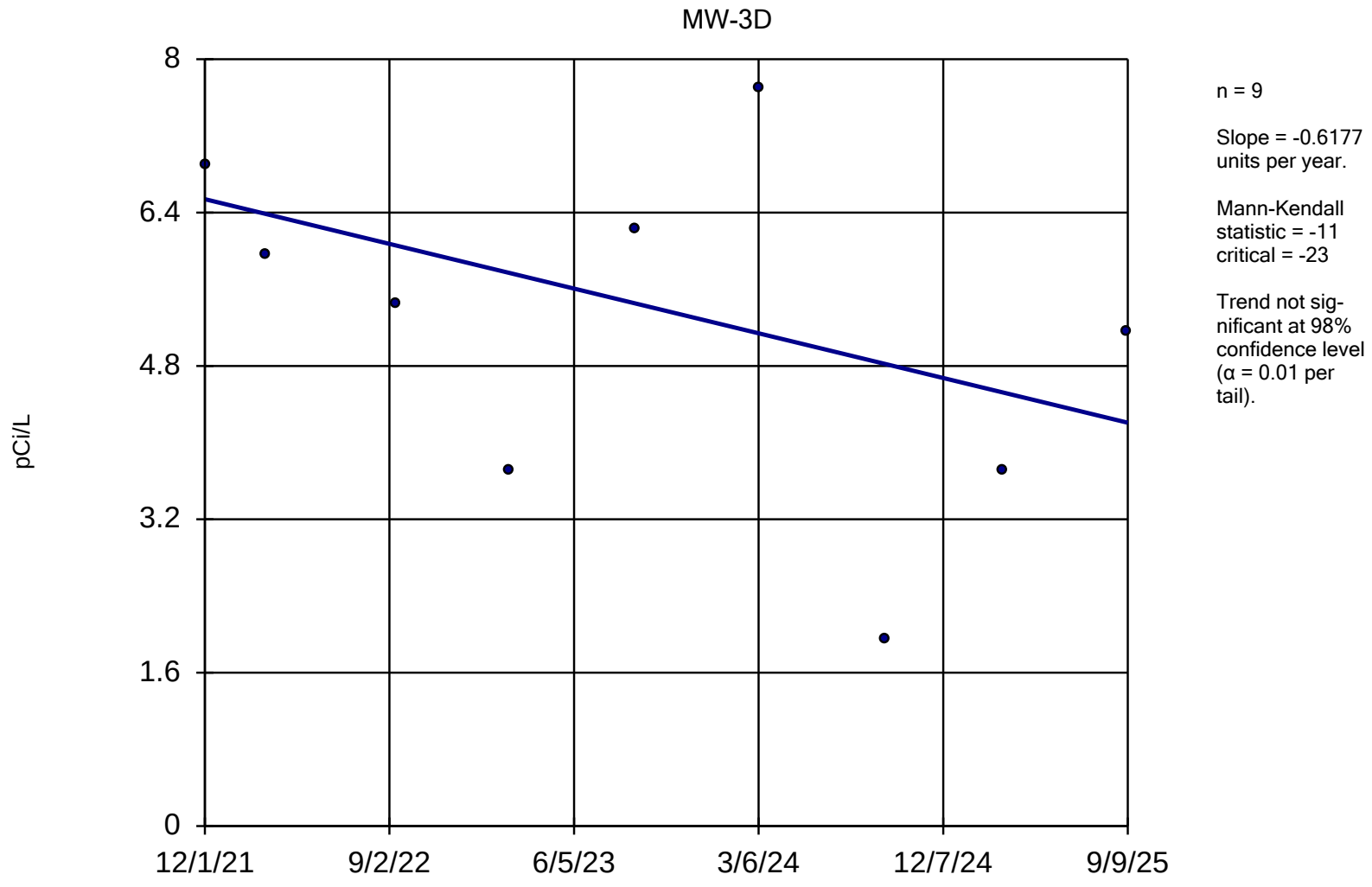
Normality test on residuals:
Shapiro Wilk @alpha = 0.01, calculated = 0.9798, critical = 0.764.

Constituent: Radium 226 and 228 [Combined] Analysis Run 11/3/2025 3:26 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

Sanitas™ v.10.1.02 Software licensed to AGES, Inc. UG

Sen's Slope Estimator



Constituent: Radium 226 and 228 [Combined] Analysis Run 11/3/2025 3:27 PM

R.M. Schahfer GS Client: AGES, Inc. Data: Schahfer Data 2020-2025

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 185
MISO 2026-27 Auction Results



Planning Resource Auction Results for Planning Year 2026/27

April 2026

UPDATED May 22: Slides # 14-30

Executive Summary



- For the 2026 Planning Resource Auction (PRA), all zones show sufficient resources at the regional, subregional, and zonal levels to meet resource adequacy requirements across all four seasons
- The Reliability Based Demand Curve (RBDC) framework ensures a reliability-focused pricing structure that accurately reflects the reliability value of capacity above (and below) resource adequacy targets, while helping with the price stability
- The 2026 PRA has set annualized price in the range of $116 - $126 per MW-day for the 2026-2027 Planning Year
- Capacity offered into the auction increased by as much as 4% compared to last year's PRA
- New generation capacity is coming online, but faster resource additions are still needed to support large-load growth and ensure resource adequacy

MISO met the planning year 2026/27 resource adequacy requirements, with gains in offered capacity outpacing pressure of load growth on increased requirements

Summer

$424.30 (North/Central)
$384.10 (LRZs 8, 10)
$412.10 (LRZ 9)

Annualized

$126.19 (North/Central)
$116.06 (LRZs 8, 10)
$123.12 (LRZ 9)

Fall

$33.92

Winter

$35.97

Spring

$7.61

- More capacity was offered than last year, which offset higher demand and improved reliability across seasons
- The summer auction cleared with a reserve margin 3.5 points above the 7.9% target
- Summer remains tight, so prices reflect the limited surplus available
  - Price differences were influenced by transfer limitations between the North and South
  - LRZ 9 needed more local capacity, driving a higher clearing price
- Most customers (~92%) secured capacity ahead of time or self supplied, reducing their sensitivity to auction outcomes
- The surplus above target was 2.0 GW higher than last summer, even with a +2.7 GW increase in required capacity (Initial PRMR)
- New capacity and more imports outweighed lower accreditation and retirements/suspensions
- Capacity additions need to continue, given expected growth from new large loads

MISO's RBDC improves price signals, reflecting the increased value of accredited capacity beyond seasonal reliability targets

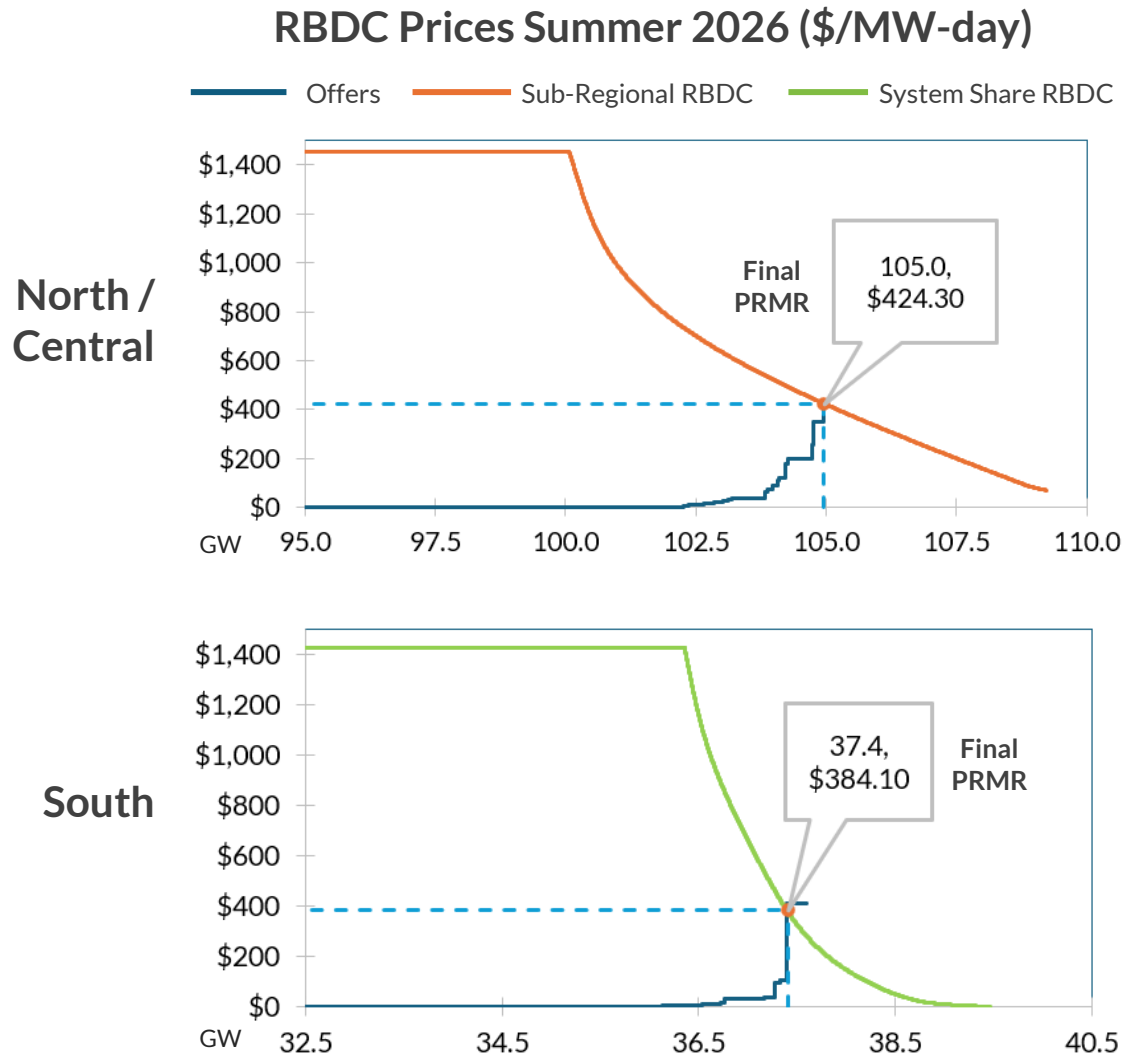
Auction cleared above seasonal initial reliability targets, representing additional reliability value at cost-competitive prices

	2026 Planning Resource Auction Initial Target vs. Final Cleared	Additional Reliability	Auction Clearing Price
Summer	Initial, 7.90% Cleared, 11.40%	+3.5%	$424.30 (N/C) $384.10 (LRZs 8,10) $412.10 (LRZ 9)
Fall	Initial, 11.60% Cleared, 17.30%	+5.7%	$33.92
Winter	Initial, 18.90% Cleared, 23.10%	+4.2%	$35.97
Spring	Initial, 23.40% Cleared, 28.10%	+4.7%	$7.61
			Annualized **$126.19** (N/C) **$116.06** (LRZs 8, 10) **$123.12** (LRZ 9)

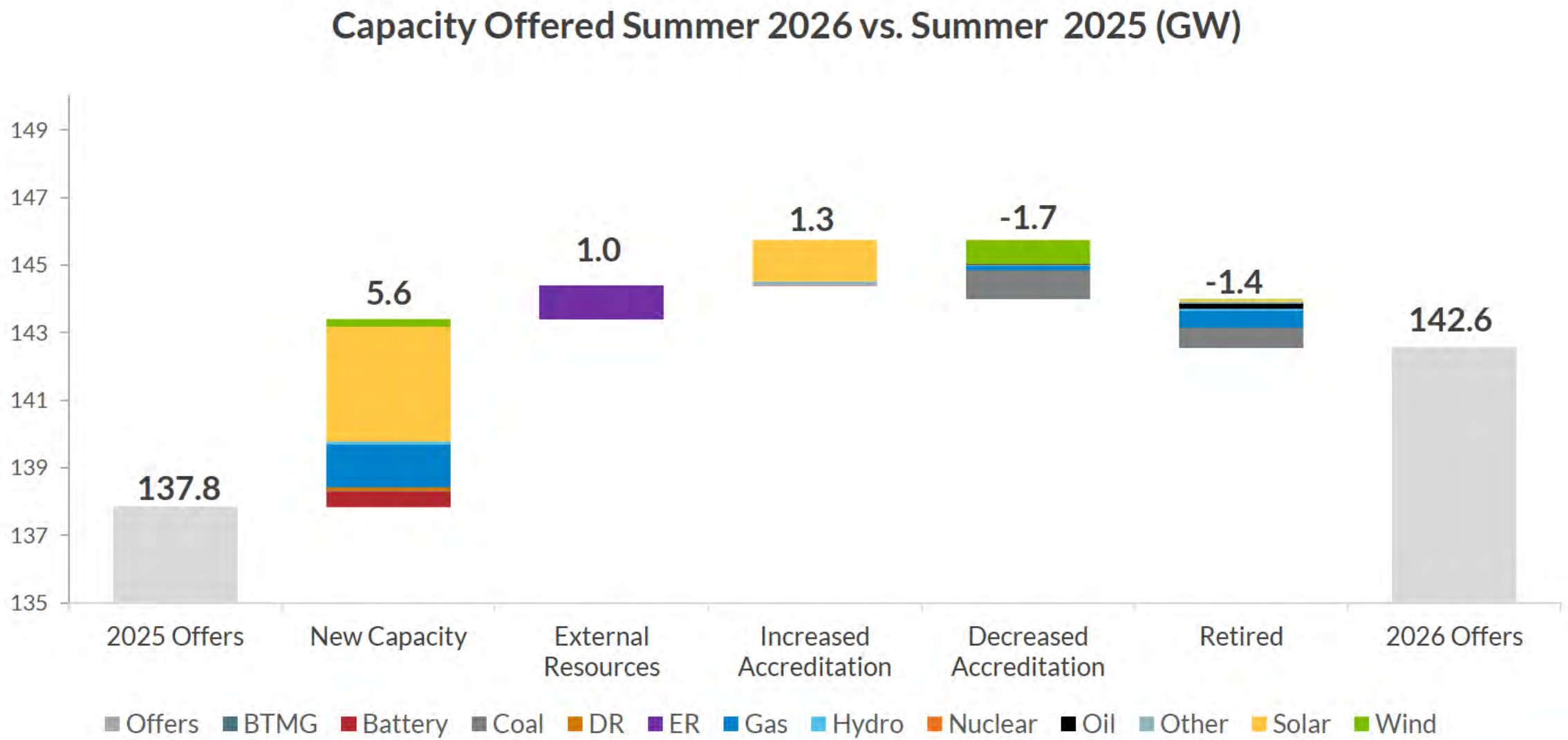
Under RBDC, each season has an initial reliability target (PRM%)

Pricing outcomes with the RBDC reflect both volume and pricing of offered capacity

- Summer clearing of $424.30 reflects highest reliability risk and increasing surplus capacity year-over-year
  - Summer surplus capacity has increased from 2.6 GW in 2025 to 4.6 GW in 2026
- Incremental capacity cleared beyond the target PRM based on the value it adds to reliability
  - Example: North/Central "effective" summer margin at 12.0% and South at 9.7% vs. target 7.9%
  - A small quantity of capacity offered at a price higher than the reliability value indicated through the demand curve did not clear
  - LRZ 9 cleared at $412.10 to satisfy LCR



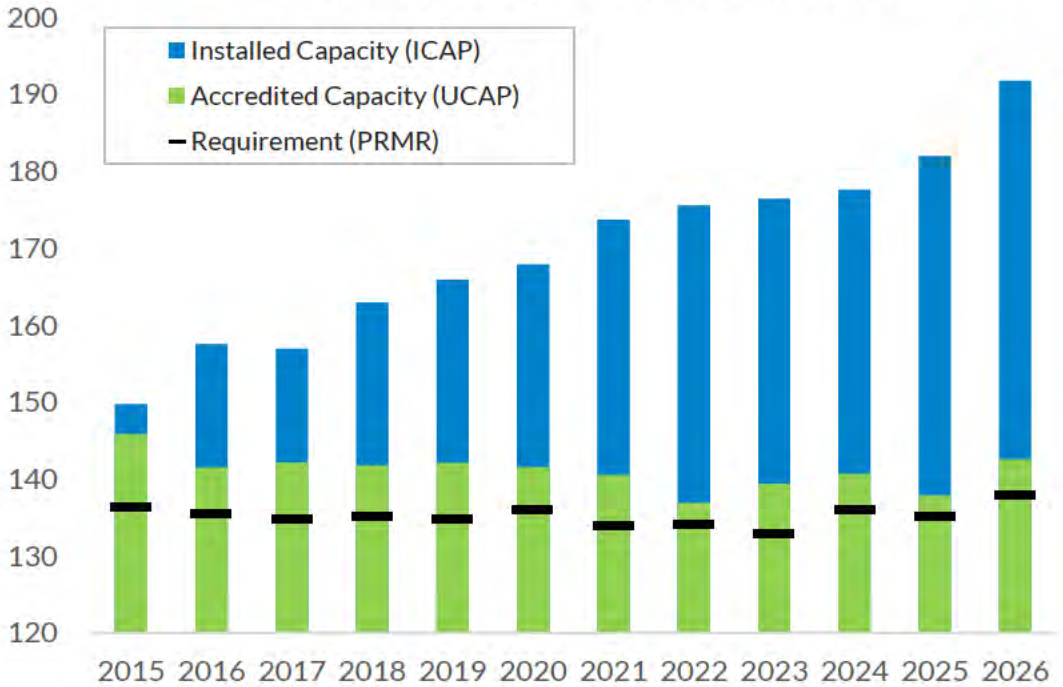
New capacity additions outpaced decreased accreditation and suspensions/retirements



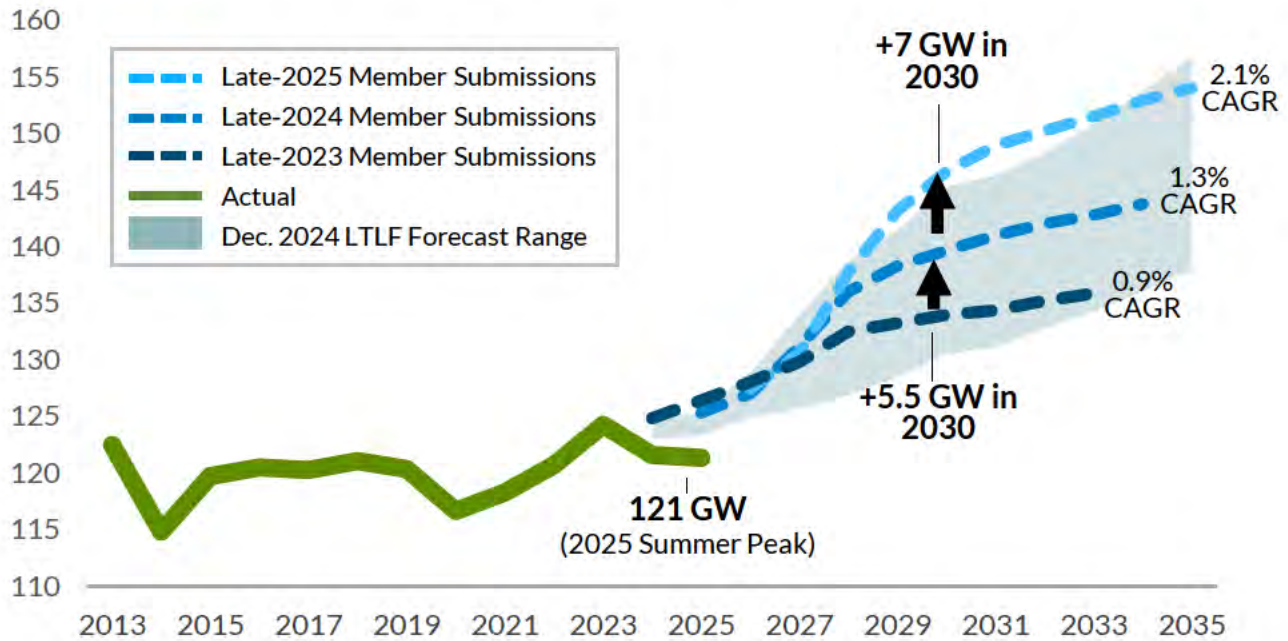
BTMG: Behind the Meter Generation. Capacity indicated is offered accredited value.

While our market reforms have helped hold the line amidst tighter reserve margin compared to the prior decade, resource adequacy remains at risk, especially as demand for large load additions accelerate

Available Capacity and Reliability Requirements from MISO Planning Resource Auctions



Recent Member and MISO Load Forecasts Net Coincident Peak (GW)



MISO has acted on many Reliability Imperative initiatives to address resource adequacy challenges, but continued collaboration on other priorities focused on readiness, speed and transparency is critical

Completed Initiatives

- ✓ Implemented Reliability-Based Demand Curve in 2025 PRA
- ✓ Began interim Expedited Resource Addition Study (ERAS) process *(June 2025)*
- ✓ Implemented Generation Interconnection Queue cap
- ✓ Reduced early phase of interconnection queue process
- ✓ Approved 10,570+ miles of new transmission lines

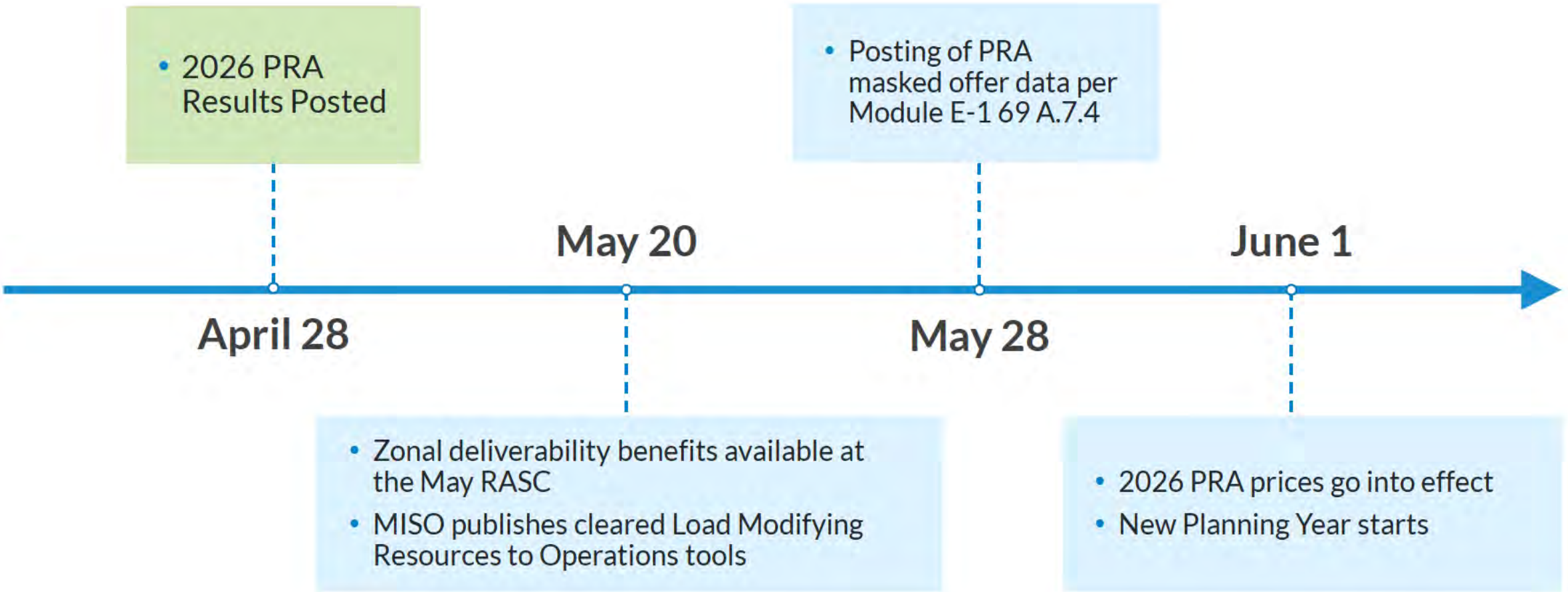
Initiatives In Progress

- Implement Direct Loss of Load (DLOL)-based accreditation
- Enhance resource adequacy risk modeling
- Improve queue cycle to 373 days
- Demand Response and Emergency Resource reforms
- Enhance allocation of resource adequacy requirements
- Reliability and Market requirements for Large Loads, Generation with Zero-Injection GIAs

Ongoing Challenges

- More frequent extreme weather
- Accelerating demand for electricity and large load interconnections
- Loss of accredited capacity and reliability attributes as resource mix evolves
- Pace of new resources additions
- Address local reliability (load pocket) issues
- Evolve storage participation

Next Steps


• 2026 PRA Results Posted
April 28
May 20
• Zonal deliverability benefits available at the May RASC
• MISO publishes cleared Load Modifying Resources to Operations tools
• Posting of PRA masked offer data per Module E-1 69 A.7.4
May 28
June 1
• 2026 PRA prices go into effect
• New Planning Year starts

Appendix



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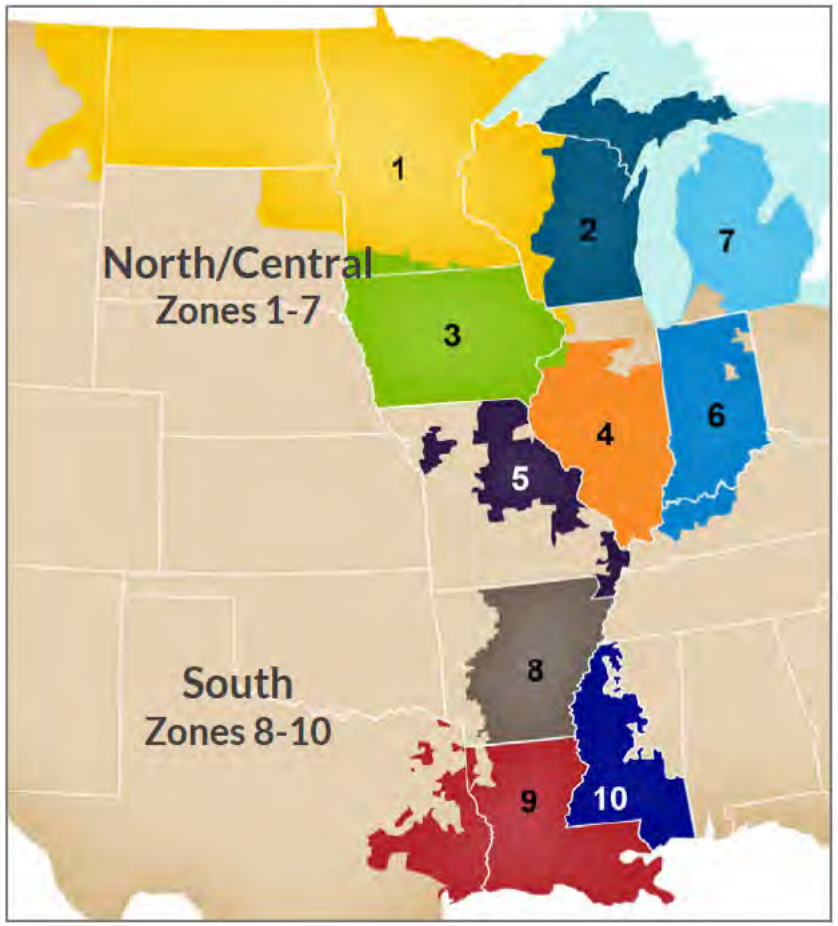
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Acronyms

ACP: Auction Clearing Price
ARC: Aggregator of Retail Customers
BTMG: Behind the Meter Generator
CIL: Capacity Import Limit
CEL: Capacity Export Limit
CONE: Cost of New Entry
CPF: Coincident Peak Forecast
DLOL: Direct Loss-of-Load
DR: Demand Resource
ELCC: Effective Load Carrying Capability
EE: Energy Efficiency
ER: External Resource
ERAS: Expedited Resource Addition Study
ERZ: External Resource Zones
FRAP: Fixed Resource Adequacy Plan
ICAP: Installed Capacity
IMM: Independent Market Monitor
LBA: Load Balancing Authority
LCR: Local Clearing Requirement
LOLE: Loss of Load Expectation
LMR: Load Modifying Resource
LRR: Local Reliability Requirement
LRZ: Local Resource Zone
LSE: Load Serving Entity
OMS: Organization of MISO States
PO: Planned Outage
PRA: Planning Resource Auction
PRM: Planning Reserve Margin
PRMR: Planning Reserve Margin Requirement
RASC: Resource Adequacy Sub-Committee
RBDC: Reliability-Based Demand Curve
SAC: Seasonal Accredited Capacity
SREC: Sub-Regional Export Constraint
SRIC: Sub-Regional Import Constraint
SRPBC: Sub-Regional Power Balance Constraint
SS: Self Schedule
UCAP: Unforced Capacity
ZIA: Zonal Import Ability
ZRC: Zonal Resource Credit

The 2026 PRA demonstrated sufficient capacity at the regional, subregional and zonal levels, with the summer price reflecting the highest risk and a tighter supply-demand balance

MISO Resource Adequacy Zones



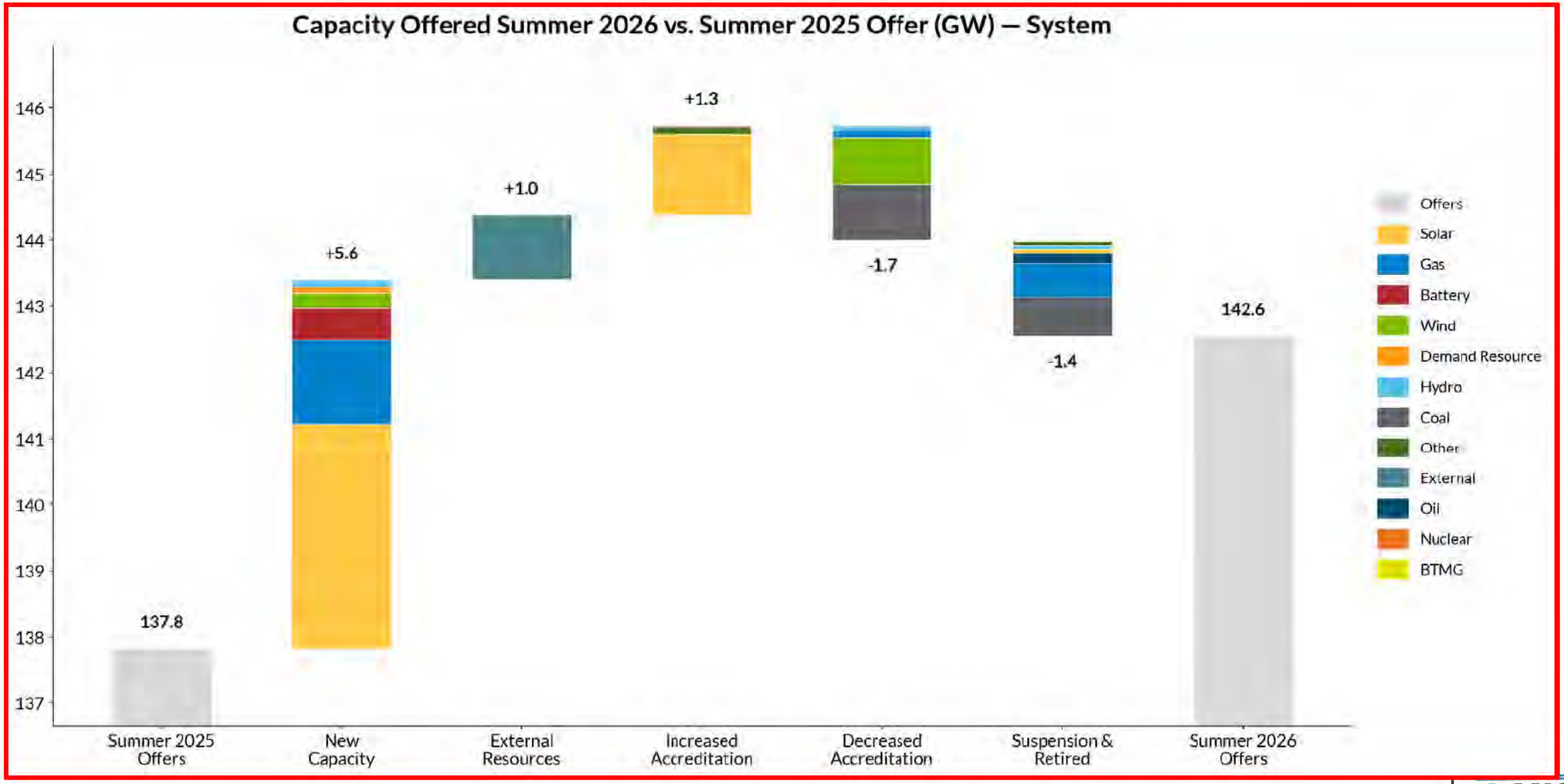
2026 PRA Results

	Price/MW-Day			
	Summer	Fall	Winter	Spring
1	$424.30	$33.92	$35.97	$7.61
2				
3				
4				
5				
6				
7				
8	$384.10			
9	$412.10			
10	$384.10			

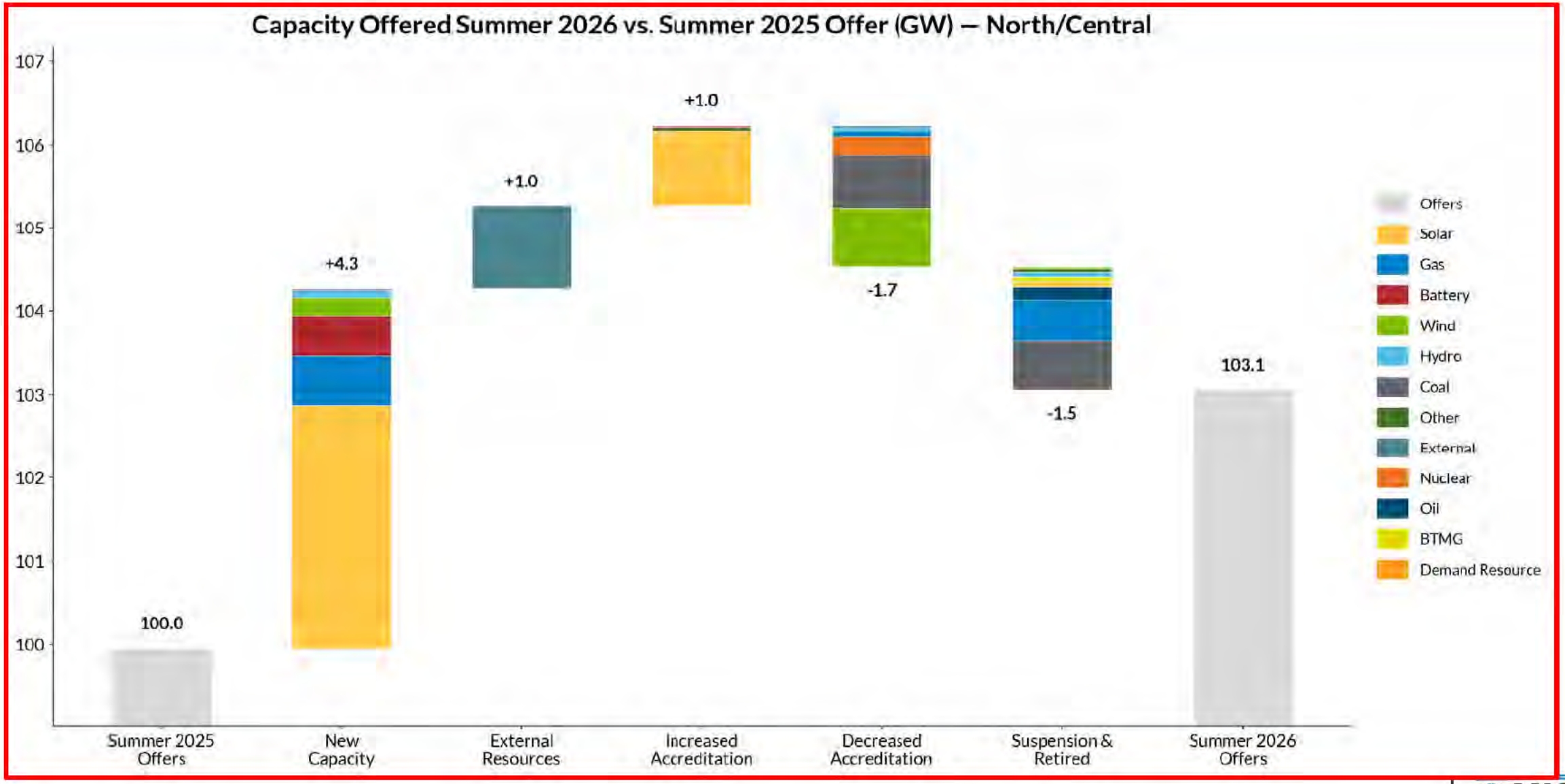
Annualized

$126.19 (N/C)
$116.06 (LRZs 8, 10)
$123.12 (LRZ 9)

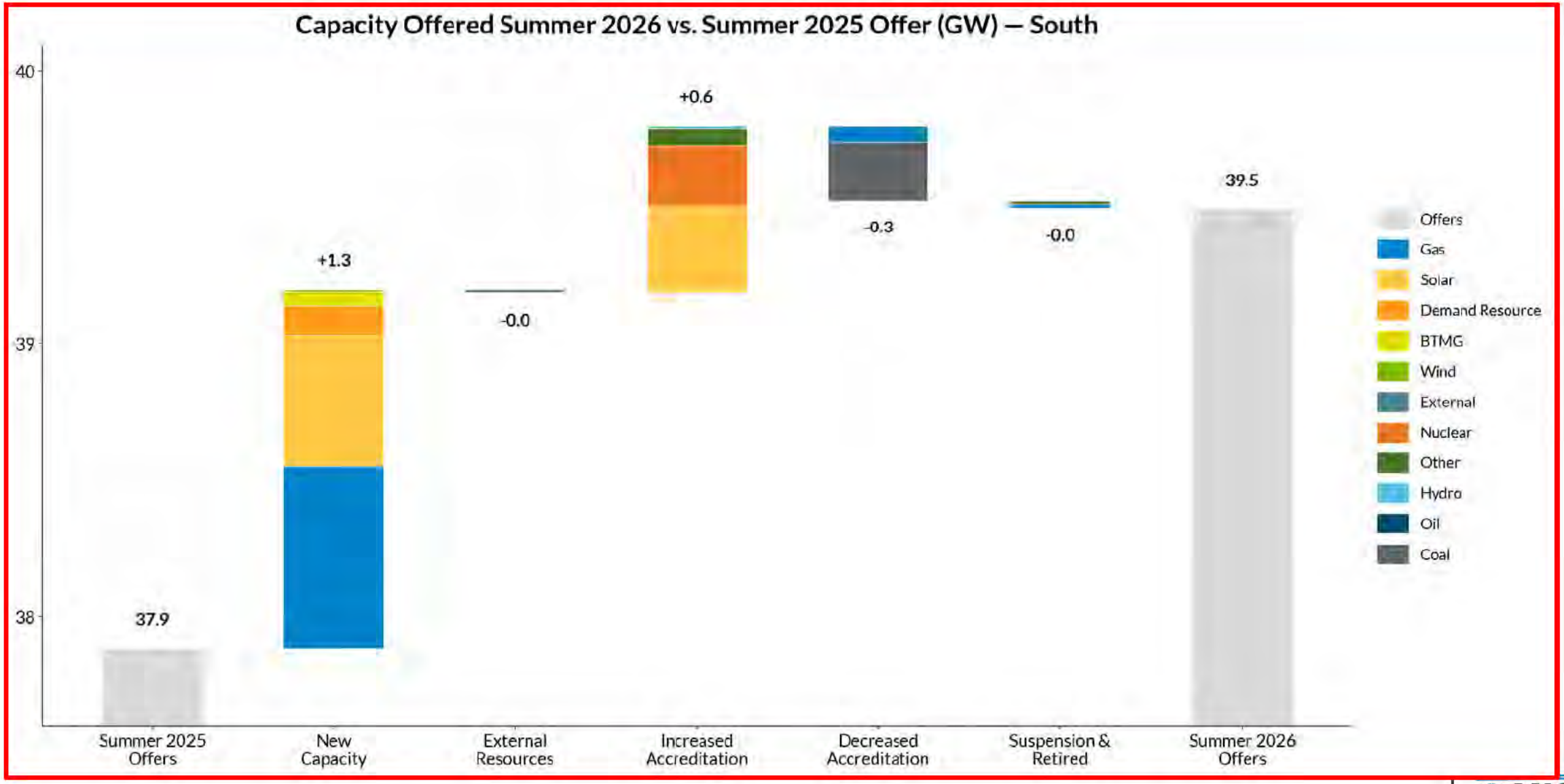
Year-over-year change in capacity offers: Summer - System



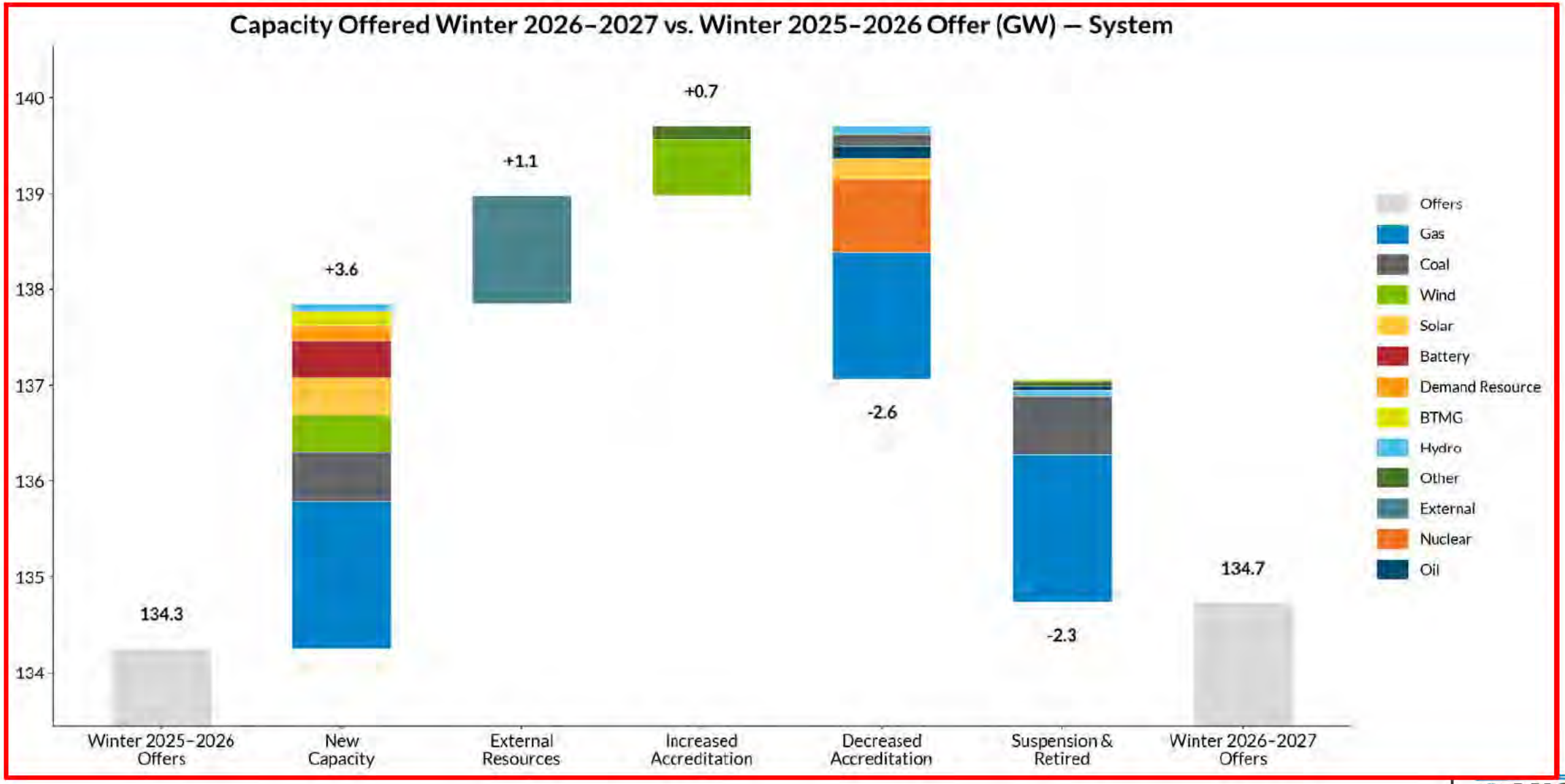
Year-over-year change in capacity offers: Summer – North/Central Subregion



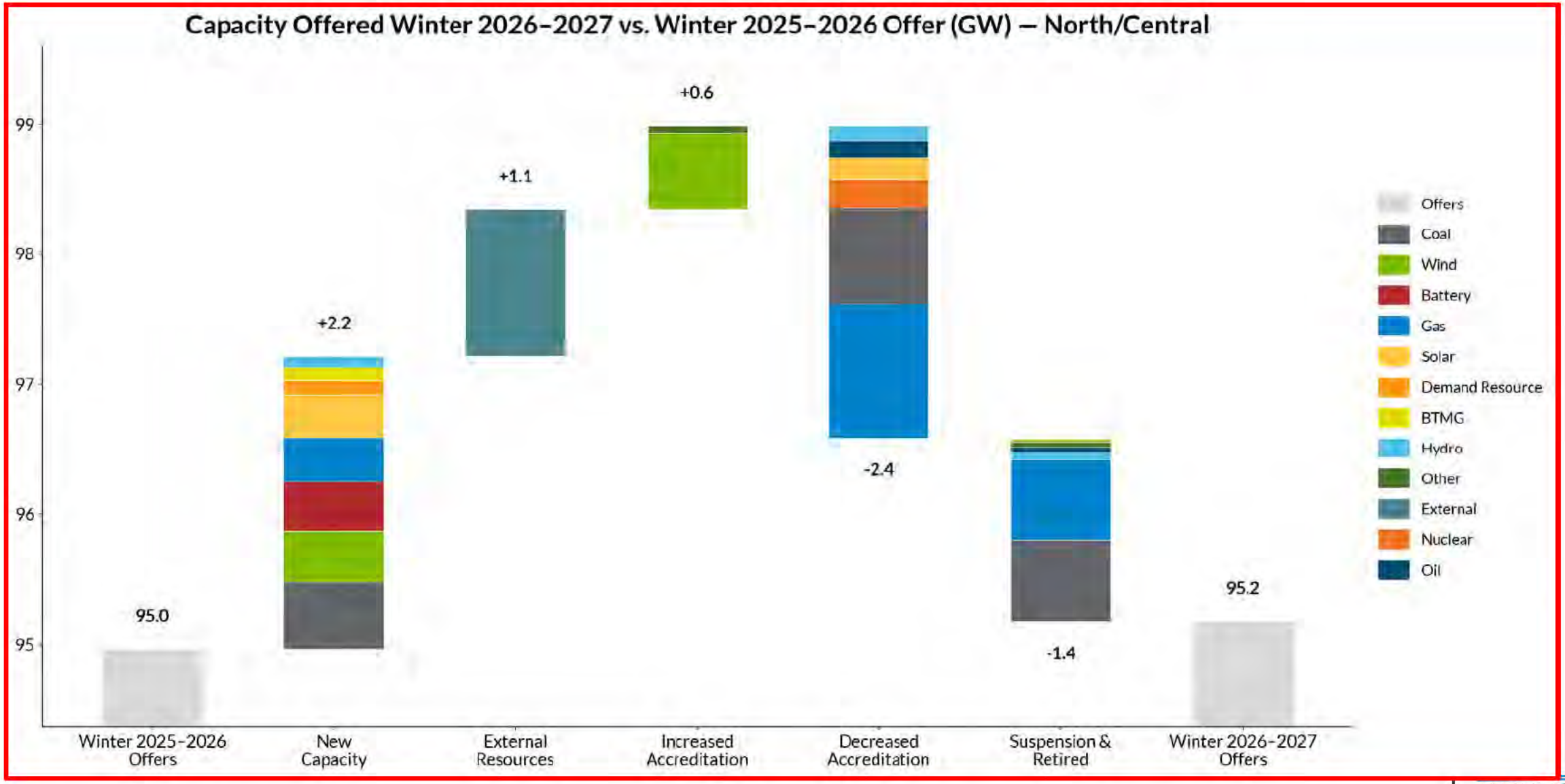
Year-over-year change in capacity offers: Summer – South Subregion



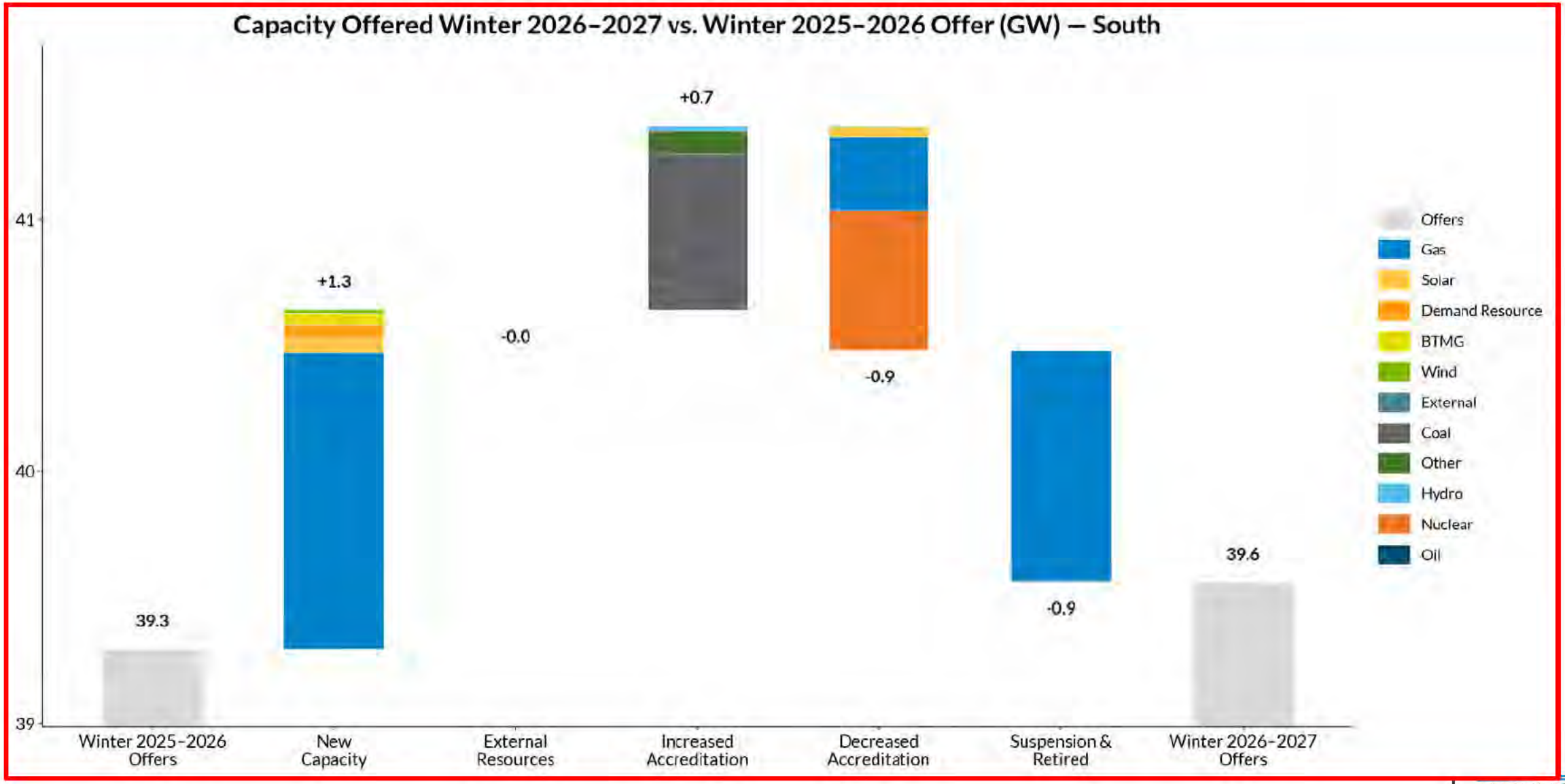
Year-over-year change in capacity offers: Winter – System



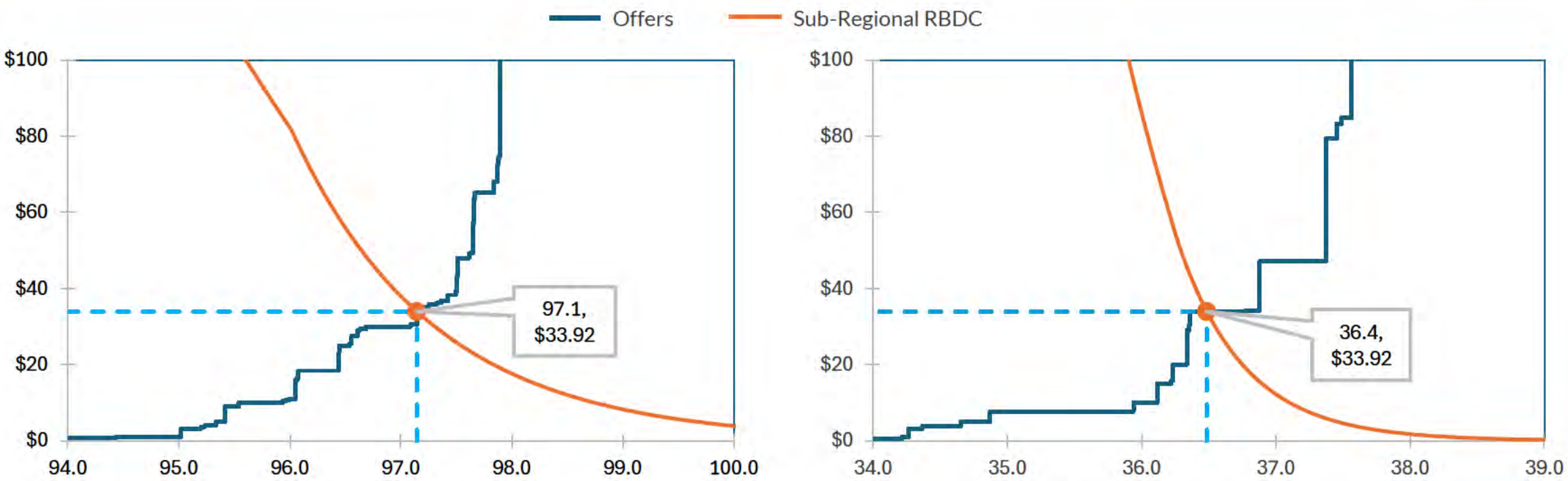
Year-over-year change in capacity offers: Winter – North/Central Subregion



Year-over-year change in capacity offers: Winter – South Subregion

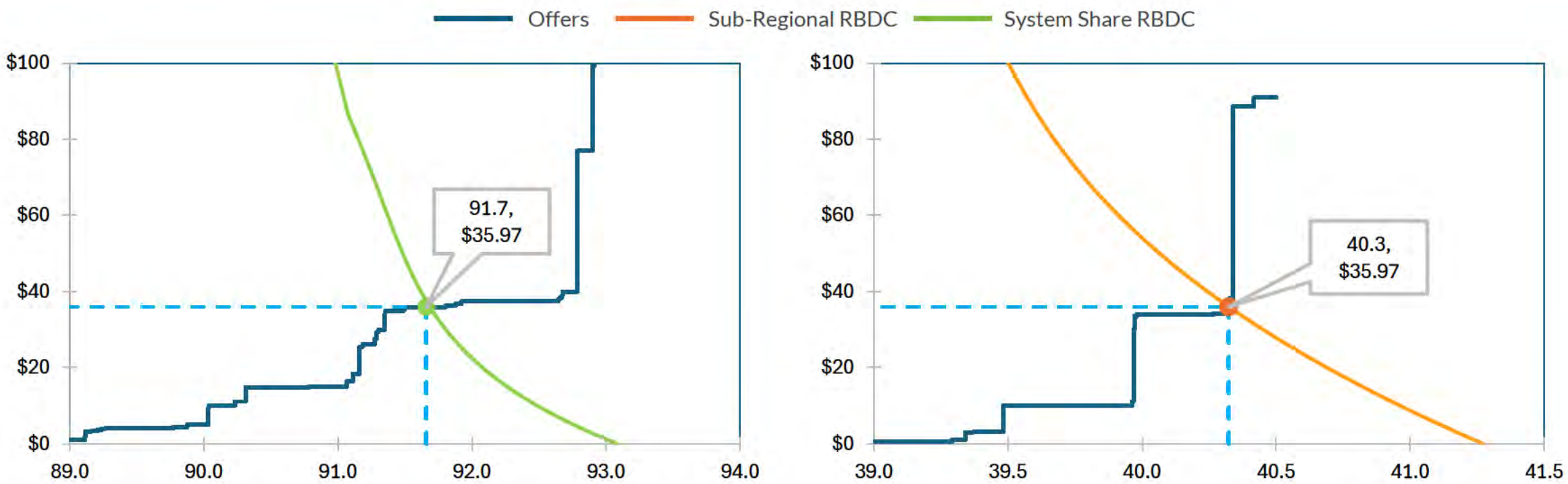


Fall 2026 Reliability-Based Demand Curve, Offer Curves and Auction Clearing Prices



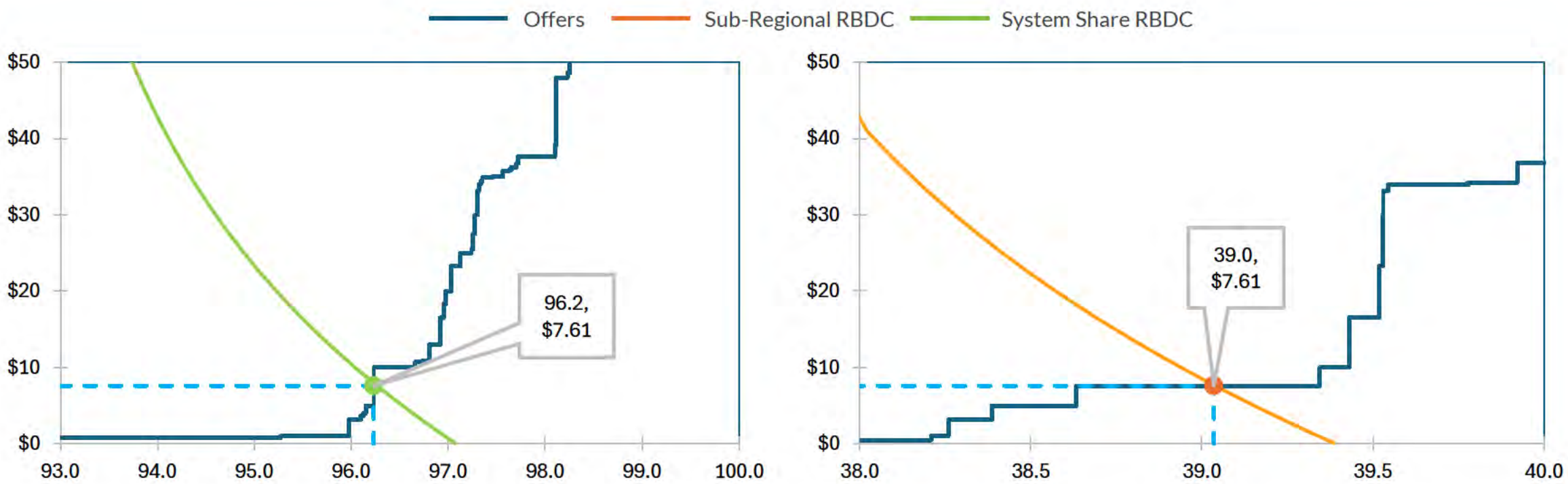
- Subregional RBDCs are determining clearing for both subregions
- No price separation between North/Central and South subregions in fall
  - ACP for both subregions is $33.92
  - Single marginal resource in South sets the price
- In fall season, "effective" margin for North/Central subregion is at **16.7% and 18.9%** for South subregion vs. target of 11.6%

Winter 2026/27 Reliability-Based Demand Curve, Offer Curves and Auction Clearing Prices



- Share of System RBDC determined clearing in the North/Central subregion
- Subregional RBDC determines clearing in the South subregion
- No price separation between North/Central and South subregions in winter
  - ACP for both subregions is $35.97; Multiple marginal resources in North/Central set the price
- In winter, "effective" margin for North/Central subregion is at 20.0% and 30.7% for South subregion vs. target of 18.9%

Spring 2027 Reliability-Based Demand Curve, Offer Curves and Auction Clearing



- Share of System RBDC determined clearing in the North/Central subregion
- Subregional RBDC determines clearing in the South subregion
- No price separation between North/Central and South subregions in spring
  - ACP for both subregions is $7.61; Multiple marginal resources in South set the price
- In spring, "effective" margin for North/Central subregion is at **26.1% and 33.2%** for South subregion vs. target of 23.4%

Summer 2026 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ[1]	North	South	System
Initial PRMR	18,968.1	13,425.3	11,290.0	9,194.7	8,455.7	18,778.8	21,004.1	8,691.4	22,548.5	5,566.2	N/A	101,116.7	36,806.1	137,922.8
Final PRMR	19,688.5	13,935.4	11,719.1	9,543.7	8,777.4	19,492.0	21,802.2	8,835.6	22,921.9	5,658.5	N/A	104,958.3	37,416.0	142,374.3
Offer Submitted (Including FRAP)	19,568.4	15,061.4	11,298.8	10,634.6	7,119.2	16,753.8	21,403.4	11,998.8	21,368.7	5,816.8	1,529.2	103,058.3	39,494.8	142,553.1
FRAP	4,609.7	8,203.5	341.2	463.6	0.0	1,245.0	1,291.8	434.5	0.0	1,562.5	36.3	16,188.4	1,999.7	18,188.1
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	14,641.3	6,682.7	10,725.5	8,435.5	6,934.9	10,365.0	19,814.5	11,031.1	19,109.6	3,999.3	1,141.4	78,542.5	34,338.3	112,880.8
Non-SS Offer Cleared	317.4	175.2	232.1	1,735.5	184.3	5,143.8	297.1	533.2	2,080.3	255.0	351.5	8,327.4	2,978.0	11,305.4
Committed (Offer Cleared + FRAP)	19,568.4	15,061.4	11,298.8	10,634.6	7,119.2	16,753.8	21,403.4	11,998.8	21,189.9	5,816.8	1,529.2	103,058.3	39,316.0	142,374.3
LCR	13,280.5	8,795.4	8,145.5	2,554.5	6,062.8	15,243.5	17,396.8	7,226.4	21,189.9	1,860.9	-	N/A	N/A	N/A
CIL	7,044.0	5,072.0	5,489.0	8,708.0	4,417.0	6,731.0	4,628.0	4,187.0	4,309.0	5,322.0	-	N/A	N/A	N/A
ZIA	7,042.0	5,072.0	5,400.0	8,517.0	4,417.0	6,440.0	4,628.0	3,981.0	4,309.0	5,322.0	-	N/A	N/A	N/A
Import	120.1	0.0	420.3	0.0	1,658.2	2,738.2	398.8	0.0	1,732.0	0.0	-	1,900.0	0.0	1,529.2
CEL	3,718.0	3,088.0	5,044.0	8,034.0	5,255.0	7,453.0	5,745.0	5,197.0	3,361.0	2,132.0	-	N/A	N/A	N/A
Export	0.0	1,126.0	0.0	1,090.9	0.0	0.0	0.0	3,163.2	0.0	158.3	1,529.2	0.0	1,900.0	-
ACP ($/MW-Day)	$424.30	$424.30	$424.30	$424.30	$424.30	$424.30	$424.30	$384.10	$412.10	$384.10	$405.31-$424.30	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.

[1]Total ZRCs from External Resources that are not Border External Resources (BER) or Coordinating Owner Resources (COR).

Fall 2026 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ[1]	North	South	System
Initial PRMR	17,218.8	11,870.4	10,449.6	8,822.8	7,691.2	17,520.0	19,286.6	7,880.1	21,174.7	5,200.8	N/A	92,859.4	34,255.6	127,115.0
Final PRMR	18,012.8	12,418.2	10,931.4	9,230.0	8,046.1	18,328.3	20,177.0	8,393.1	22,552.9	5,539.0	N/A	97,143.8	36,485.0	133,628.8
Offer Submitted (Including FRAP)	19,290.8	14,299.1	12,531.4	9,984.5	7,153.6	15,241.1	20,491.1	11,634.5	21,268.3	5,528.8	1,527.1	100,225.7	38,724.6	138,950.3
FRAP	4,201.3	7,027.2	343.6	445.7	0.0	1,095.3	1,246.9	403.2	0.0	1,367.1	34.1	14,392.5	1,771.9	16,164.4
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,841.9	6,748.2	11,775.2	7,843.7	6,937.7	9,526.1	18,027.5	9,845.0	16,494.1	3,833.8	1,084.4	75,599.5	30,358.1	105,957.6
Non-SS Offer Cleared	700.5	426.7	314.3	1,621.7	179.5	3,810.7	241.1	493.7	3,195.2	180.8	342.6	7,530.9	3,975.9	11,506.8
Committed (Offer Cleared + FRAP)	18,743.7	14,202.1	12,433.1	9,911.1	7,117.2	14,432.1	19,515.5	10,741.9	19,689.3	5,381.7	1,461.1	97,522.9	36,105.9	133,628.8
LCR	12,057.3	6,520.8	4,424.1	3,397.9	5,160.5	13,479.1	16,133.1	5,090.4	19,222.5	2,018.4	-	N/A	N/A	N/A
CIL	7,297.0	6,050.0	9,283.0	6,673.0	4,762.0	7,301.0	5,193.0	6,336.0	4,761.0	4,379.0	-	N/A	N/A	N/A
ZIA	7,245.0	6,050.0	9,191.0	6,491.0	4,762.0	7,012.0	5,193.0	6,170.0	4,761.0	4,379.0	-	N/A	N/A	N/A
Import	0.0	0.0	0.0	0.0	928.9	3,896.2	661.5	0.0	2,863.6	157.3	-	0.0	379.1	1,461.1
CEL	4,147.0	5,034.0	5,652.0	6,429.0	3,701.0	5,172.0	5,305.0	3,781.0	3,970.0	2,459.0	-	N/A	N/A	N/A
Export	730.9	1,783.9	1,501.7	681.1	0.0	0.0	0.0	2,348.8	0.0	0.0	1,461.1	379.1	0.0	-
ACP ($/MW-Day)	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.
[1]Total ZRCs from External Resources that are not Border External Resources (BER) or Coordinating Owner Resources (COR).

Winter 2026/27 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ[1]	North	South	System
Initial PRMR	18,112.7	11,417.0	10,727.8	8,550.7	8,155.2	18,198.5	15,627.5	8,783.0	22,413.9	5,489.4	N/A	90,789.4	36,686.3	127,475.7
Final PRMR	18,285.9	11,526.7	10,831.0	8,632.3	8,233.4	18,372.6	15,776.8	9,653.8	24,636.2	6,033.8	N/A	91,658.7	40,323.8	131,982.5
Offer Submitted (Including FRAP)	18,976.4	13,305.7	12,736.1	8,210.2	6,246.9	14,617.0	19,647.2	10,982.4	22,518.4	5,730.2	1,766.8	95,177.6	39,559.7	134,737.3
FRAP	4,741.7	6,654.8	334.9	424.6	0.0	1,126.1	1,168.6	458.8	0.0	1,681.4	35.9	14,484.7	2,142.1	16,626.8
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,674.5	6,243.9	12,146.0	6,735.5	6,153.3	7,898.8	16,240.9	10,326.7	20,995.4	3,998.1	1,360.4	70,239.9	35,533.6	105,773.5
Non-SS Offer Cleared	515.2	259.5	255.2	979.5	90.2	5,119.3	414.7	196.9	1,360.8	50.7	340.0	7,874.3	1,707.7	9,582.0
Committed (Offer Cleared + FRAP)	18,931.4	13,158.2	12,736.1	8,139.6	6,243.5	14,144.2	17,824.2	10,982.4	22,356.2	5,730.2	1,736.3	92,598.9	39,383.4	131,982.3
LCR	13,639.8	7,123.9	5,013.8	3,090.6	1,890.3	11,080.7	14,688.8	8,021.3	21,311.9	3,756.4	-	N/A	N/A	N/A
CIL	5,135.0	5,379.0	9,724.0	5,682.0	6,379.0	8,499.0	4,123.0	3,544.0	3,690.0	3,154.0	-	N/A	N/A	N/A
ZIA	4,533.0	5,294.0	9,620.0	5,493.0	6,379.0	8,208.0	4,123.0	3,366.0	3,690.0	3,154.0	-	N/A	N/A	N/A
Import	0.0	0.0	0.0	492.7	1,989.9	4,228.4	0.0	0.0	2,280.0	303.6	-	0.0	940.4	1,736.3
CEL	2,385.0	3,860.0	9,181.0	4,535.0	6,786.0	3,087.0	5,546.0	4,431.0	2,096.0	1,602.0	-	N/A	N/A	N/A
Export	645.5	1,631.5	1,905.1	0.0	0.0	0.0	2,047.4	1,328.6	0.0	0.0	1,736.3	940.2	0.0	-
ACP ($/MW-Day)	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.
[1]Total ZRCs from External Resources that are not Border External Resources (BER) or Coordinating Owner Resources (COR).

Spring 2027 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ[1]	North	South	System
Initial PRMR	17,840.4	12,483.5	10,640.6	7,773.7	7,828.4	17,981.9	19,625.5	8,074.8	22,644.1	5,431.1	N/A	94,174.0	36,150.0	130,324.0
Final PRMR	18,230.6	12,756.1	10,873.3	7,943.3	7,999.5	18,375.1	20,054.3	8,719.1	24,451.4	5,864.4	N/A	96,232.2	39,034.9	135,267.1
Offer Submitted (Including FRAP)	18,619.7	15,445.5	11,520.6	10,895.8	7,288.4	16,078.3	20,721.0	12,186.6	21,295.8	6,216.2	1,420.9	101,683.7	40,005.1	141,688.8
FRAP	4,416.3	7,372.7	336.0	454.4	0.0	1,125.1	1,309.9	298.6	0.0	1,471.5	34.9	15,047.7	1,771.7	16,819.4
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,460.0	7,952.9	10,781.3	8,595.3	6,995.9	9,691.5	18,445.6	9,727.2	18,812.3	4,333.1	945.7	76,680.8	33,060.0	109,740.8
Non-SS Offer Cleared	321.7	50.0	260.4	1,293.9	164.0	4,090.8	444.0	811.1	1,055.0	126.5	89.5	6,714.3	1,992.6	8,706.9
Committed (Offer Cleared + FRAP)	18,198.0	15,375.6	11,377.7	10,343.6	7,159.9	14,907.4	20,199.5	10,836.9	19,867.3	5,931.1	1,070.1	98,442.9	36,824.2	135,267.1
LCR	10,315.9	6,052.3	3,341.2	2,117.6	4,087.4	10,895.5	15,143.0	5,946.1	19,442.6	2,929.7	-	N/A	N/A	N/A
CIL	6,892.0	6,133.0	9,420.0	6,732.0	4,733.0	8,324.0	5,338.0	5,566.0	4,657.0	4,187.0	-	N/A	N/A	N/A
ZIA	6,690.0	6,133.0	9,311.0	6,533.0	4,733.0	7,999.0	5,338.0	5,374.0	4,657.0	4,187.0	-	N/A	N/A	N/A
Import	32.6	0.0	0.0	0.0	839.6	3,467.7	0.0	0.0	4,584.1	0.0	-	0.0	2,210.7	1,070.1
CEL	3,513.0	4,608.0	6,282.0	6,248.0	5,811.0	4,140.0	5,497.0	3,952.0	4,633.0	2,725.0	-	N/A	N/A	N/A
Export	0.0	2,619.5	504.4	2,400.3	0.0	0.0	145.2	2,117.8	0.0	66.7	1,070.1	2,210.7	0.0	-
ACP ($/MW-Day)	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.
[1]Total ZRCs from External Resources that are not Border External Resources (BER) or Coordinating Owner Resources (COR).

Summer Supply Offered and Cleared Comparison Trend

Planning Resource	Offered (ZRC)				Cleared (ZRC)			
	Summer 2023	Summer 2024	Summer 2025	Summer 2026	Summer 2023	Summer 2024	Summer 2025	Summer 2026
Generation	122,375.6	123,277.8	121,015.6	124,690.1	116,989.7	119,361.4	120,738.6	124,511.3
External Resources[1]	4,514.6	4,430.4	3,505.9	4,490.6	4,072.5	4,309.8	3,505.9	4,490.6
Behind the Meter Generation	4,175.2	4,180.2	4,282.8	4,272.9	4,129.4	4,143.5	4,282.8	4,272.9
Demand Resources	8,303.5	8,618.3	9,004.4	9,099.5	7,694.6	8,067.5	9,004.4	9,099.5
Energy Efficiency	5.0	22.5	27.6	0.0	5.0	22.5	27.6	0.0
Total	**139,373.9**	**140,529.2**	**137,836.3**	**142,553.1**	**132,891.2**	**135,904.7**	**137,559.3**	**142,374.3**

ZRC: Zonal Resource Credit

[1]Total ZRC/SAC for all External Resources (including BER and COR)

Fall Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Fall 2023	Fall 2024	Fall 2025	Fall 2026	Fall 2023	Fall 2024	Fall 2025	Fall 2026
Generation	121,403.5	119,627.5	122,283.4	123,289.3	111,713.8	111,673.7	118,309.5	118,561.2
External Resources[1]	4,095.4	4,366.8	2,833.5	3,846.2	3,979.6	3,990.2	2,763.6	3,780.2
Behind the Meter Generation	3,874.2	3,877.9	3,646.8	3,925.0	3,842.8	3,789.7	3,646.8	3,923.0
Demand Resources	7,004.2	6,824.2	7,983.7	7,889.8	6,254.4	5,915.6	7,767.8	7,364.4
Energy Efficiency	4.9	22.5	28.1	0.0	4.8	22.5	28.1	0.0
Total	**136,382.2**	**134,718.9**	**136,775.5**	**138,950.3**	**125,795.4**	**125,391.7**	**132,515.8**	**133,628.8**

ZRC: Zonal Resource Credit
[1]Total ZRC/SAC for all External Resources (including BER and COR)

Winter Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Winter 2023-2024	Winter 2024-2025	Winter 2025-2026	Winter 2027-2026	Winter 2023-2024	Winter 2024-2025	Winter 2025-2026	Winter 2026-2027
Generation	124,632.7	132,844.3	120,225.1	119,295.9	114,886.6	117,640.7	117,392.0	117,053.4
External Resources[1]	3,937.1	3,973.0	2,808.7	3,941.5	3,334.6	3,313.3	2,793.7	3,911.0
Behind the Meter Generation	3,257.8	3,111.5	3,082.9	3,228.3	3,173.9	2,957.3	3,082.6	3,228.3
Demand Resources	7,648.2	7,818.6	8,112.3	8,271.6	6,702.4	6,774.9	7,698.3	7,789.6
Energy Efficiency	6.7	29.7	32.9	0.0	6.7	29.7	32.9	0.0
Total	**139,482.5**	**147,777.1**	**134,261.9**	**134,737.3**	**128,104.2**	**130,715.9**	**130,999.5**	**131,982.3**

ZRC: Zonal Resource Credit
[1]Total ZRC/SAC for all External Resources (including BER and COR)

Spring Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC) [1]			
Planning Resource	Spring 2024	Spring 2025	Spring 2026	Spring 2027	Spring 2024	Spring 2025	Spring 2026	Spring 2027
Generation	119,254.7	121,303.8	120,780.6	125,637.7	110,195.8	113,091.4	115,724.7	120,373.9
External Resources[1]	3,794.1	3,481.8	2,640.1	3,527.3	3,409.1	3,406.5	2,570.3	3,076.5
Behind the Meter Generation	4,096.4	4,201.6	4,133.5	4,263.8	4,058.9	4,180.5	4,133.5	4,240.2
Demand Resources	7,287.7	7,602.9	8,475.9	8,260.0	6,720.0	7,087.2	8,240.5	7,576.5
Energy Efficiency	5.3	25.0	30.5	0.0	5.3	25.0	30.5	0.0
Total	**134,438.2**	**136,615.1**	**136,060.6**	**141,688.8**	**124,389.1**	**127,790.6**	**130,699.5**	**135,267.1**

ZRC: Zonal Resource Credit
[1]Total ZRC/SAC for all External Resources (including BER and COR)

2026 PRA pricing compared with Independent Market Monitor (IMM) Conduct Threshold and Cost of New Entry (CONE)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs	System CONE (Seasonal)	North/Central CONE (Seasonal)	South CONE (Seasonal)
Summer 2026	$424.30							$384.10	$412.10	$384.10	$405.31-$424.30	$1,422.37	$1,453.99	$1,348.59
Fall 2026	$33.92											$1,422.37	$1,453.99	$1,348.59
Winter 2026-27	$35.97											$1,422.37	$1,453.99	$1,348.59
Spring 2027	$7.61											$1,422.37	$1,453.99	$1,348.59
Cost of New Entry (Annual)	$134,160	$131,310	$127,330	$132,380	$142,970	$130,710	$137,510	$125,070	$123,890	$123,250	$142,970			
IMM Conduct Threshold*	$36.76	$35.98	$34.88	$36.27	$39.17	$35.81	$37.67	$34.27	$33.94	$33.77	-			

- Zonal Resource Credit (ZRC) offers that impact pricing should generally stay below the IMM Conduct Threshold and applies to all seasons.

Zonal Auction Clearing Prices (ACP) shown in $/MW-day. ERZ: External Resource Zones.

Historical Summer Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
2015-2016		$3.48		$150.00		$3.48		$3.29		N/A	N/A
2016-2017	$19.72			$72.00				$2.99			N/A
2017-2018					$1.50						N/A
2018-2019	$1.00				$10.00						N/A
2019-2020				$2.99			$24.30	$2.99			
2020-2021				$5.00			$257.53	$4.75	$6.88	$4.75	$4.89-$5.00
2021-2022				$5.00				$0.01			$2.78-$5.00
2022-2023				$236.66				$2.88			$2.88-236.66
Summer 2023					$10.00						
Summer 2024					$30.00						
Summer 2025					$666.50						
Summer 2026				$424.30				$384.10	$412.10	$384.10	$405.31-$424.30

ERZ: External Resource Zones.

Fall Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Fall 2023	$15.00								$59.21	$15.00	
Fall 2024	$15.00				$719.81	$15.00					
Fall 2025	$91.60							$74.09			$83.24-$91.60
Fall 2026	$33.92										

ERZ: External Resource Zones.

Winter Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Winter 2023-24	$2.00								$18.88	$2.00	
Winter 2024-25	$0.75										
Winter 2025-26	$33.20										
Winter 2026-27	$35.97										

ERZ: External Resource Zones.

Spring Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Spring 2024	$10.00										
Spring 2025	$34.10				$719.81	$34.10					
Spring 2026	$69.88										
Spring 2027	$7.61										

ERZ: External Resource Zones.

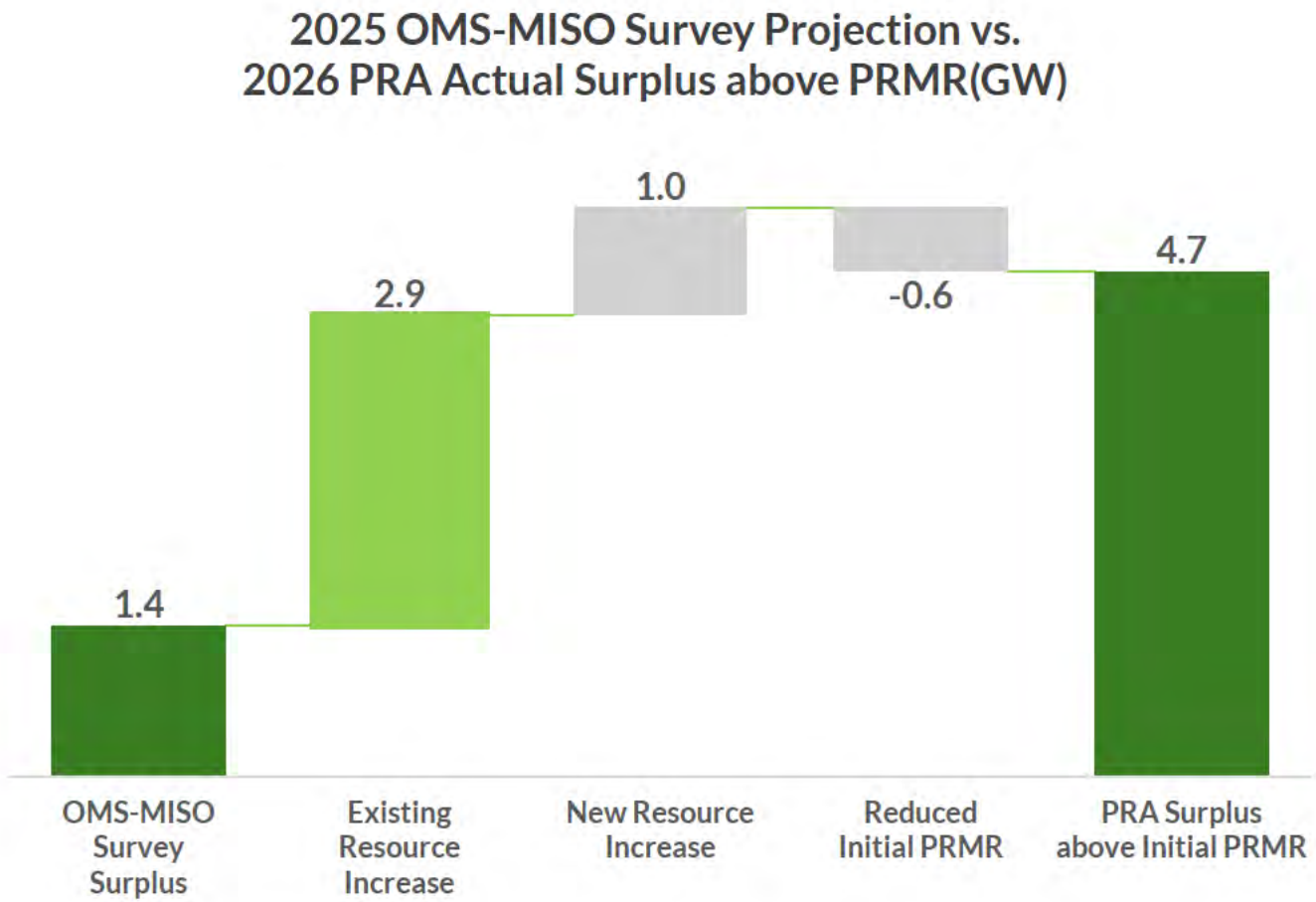
Offered Capacity, Final PRMR, Imports & Exports (MW)



	Subregion	External Offers	Total Offers	Final PRMR	Imports	Exports
Summer	North/Central	1,219	103,058	104,959	1,900	-
	South	310	39,495	37,416	-	1,900
Fall	North/Central	1,234	100,226	97,144	-	379
	South	293	38,725	36,485	379	-
Winter	North/Central	1,422	95,178	91,659	-	940
	South	315	39,560	40,234	940	-
Spring	North/Central	881	101,684	96,233	-	2,211
	South	189	40,005	39,035	2,211	-

PRMR: Planning Reserve Margin Requirement. Offers includes Fixed Resource Adequacy Plan (FRAP), Self-scheduled and price sensitive offers.

The surplus capacity, with reference to PRMR target, offered into the 2026 auction was within the projections range included in the 2025 OMS-MISO Survey



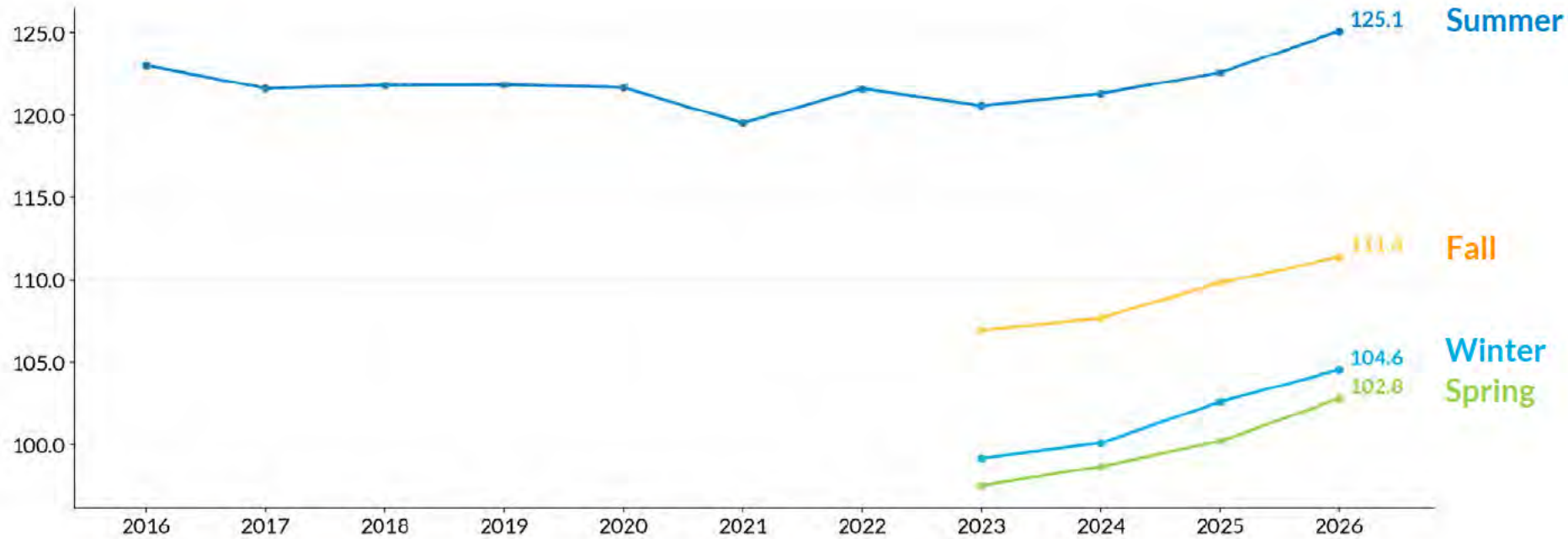
Summer 2026 auction outcomes vs. 2025 OMS-MISO Survey projection for 2026

- Surplus capacity above PRMR target offered into the 2026 PRA for Summer 2026 was ~4.6GW which is within the range of 1.4 GW – 6.1 GW projections in the 2025 OMS-MISO Survey
- Incremental accreditation reductions in the auction were offset by incremental increases in new resource additions
- Notably, initial PRMR was lower (0.6 GW) than projected in the OMS-MISO Survey

PRA Shortfall/Surplus relative to Initial PRMR | PRMR: Planning Reserve Margin Requirement

Coincident Peak Forecast History

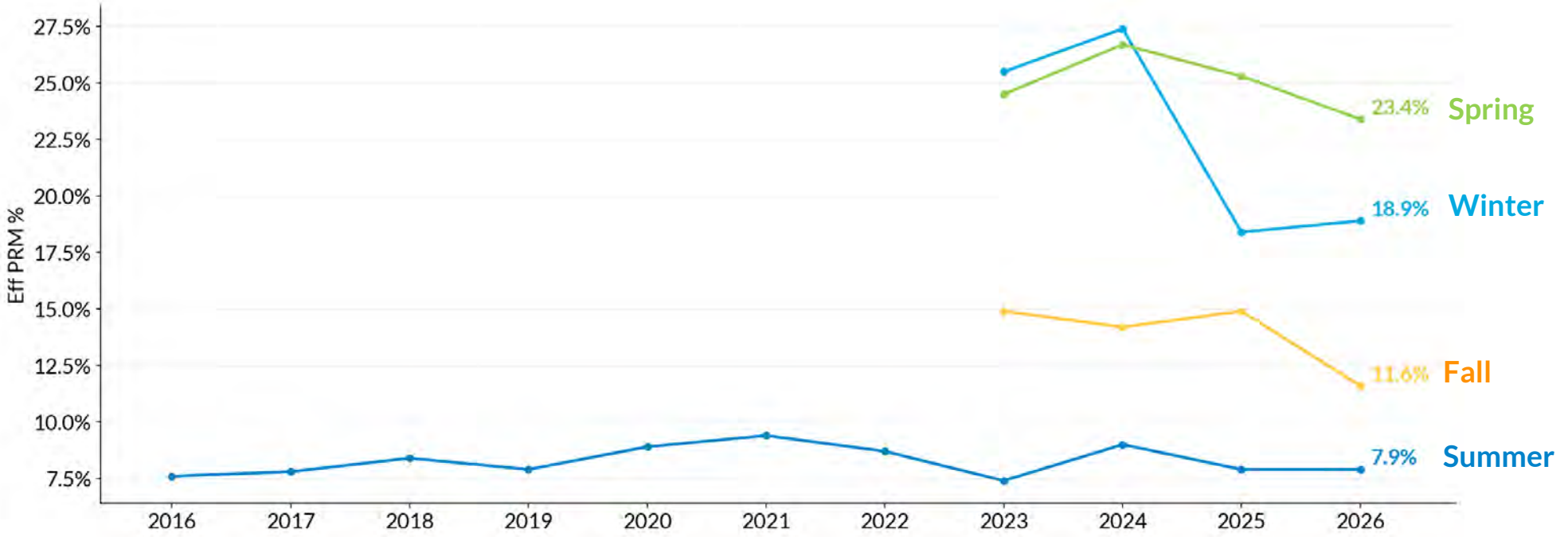
Year-over-year:
- Summer CPF (+2.5 GW)
- PRM (+/-0.0%)
- Final PRMR (+4.8 GW)



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer CPF	123,035.8	121,631.2	121,815.6	121,845.4	121,679.8	119,532.0	121,608.5	120,586.8	121,314.1	122,596.6	125,080.2
Fall CPF								106,973.8	107,701.4	109,850.0	111,392.9
Winter CPF								99,188.0	100,114.6	102,624.0	104,556.9
Spring CPF								97,537.6	98,697.8	100,225.2	102,818.0

CPF: Coincident Peak Forecast

Planning Reserve Margin History

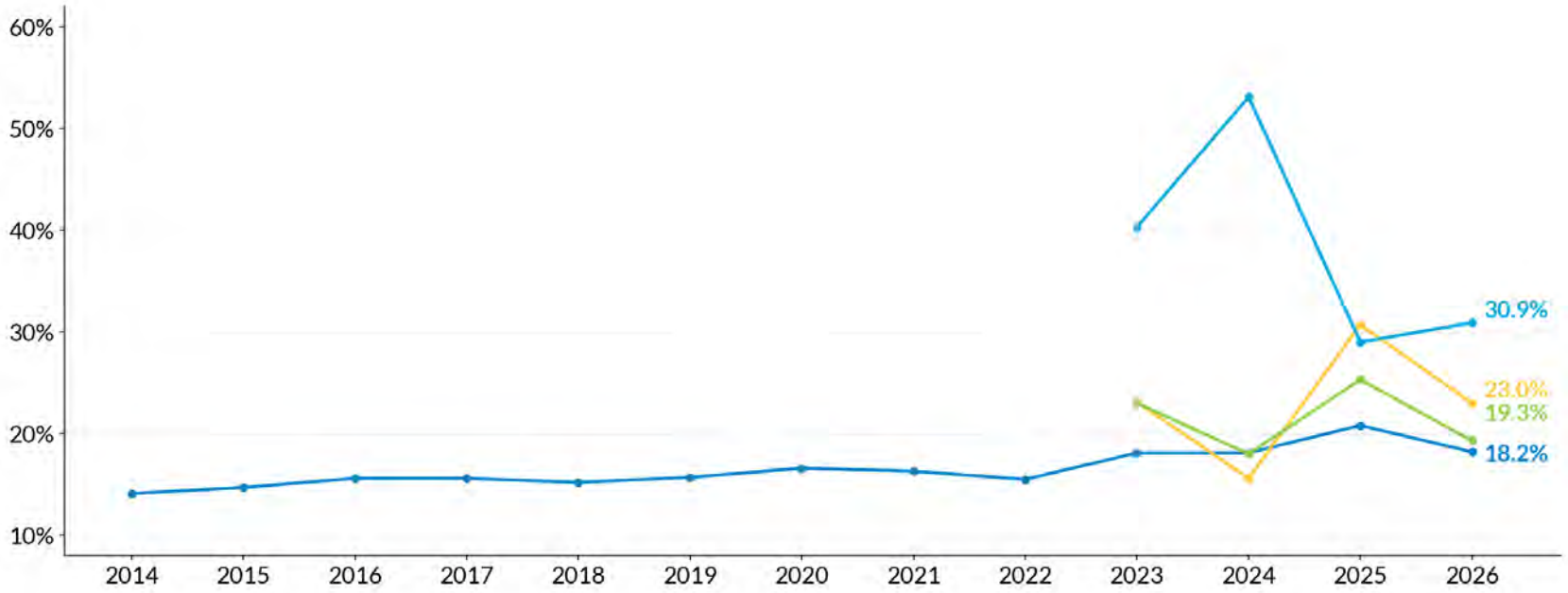


	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer PRM	7.6%	7.8%	8.4%	7.9%	8.9%	9.4%	8.7%	7.4%	9.0%	7.9%	7.9%
Fall PRM								14.9%	14.2%	14.9%	11.6%
Winter PRM								25.5%	27.4%	18.4%	18.9%
Spring PRM								24.5%	26.7%	25.3%	23.4%

PRM: Planning Reserve Margin

Wind Effective Load Carrying Capacity (%)

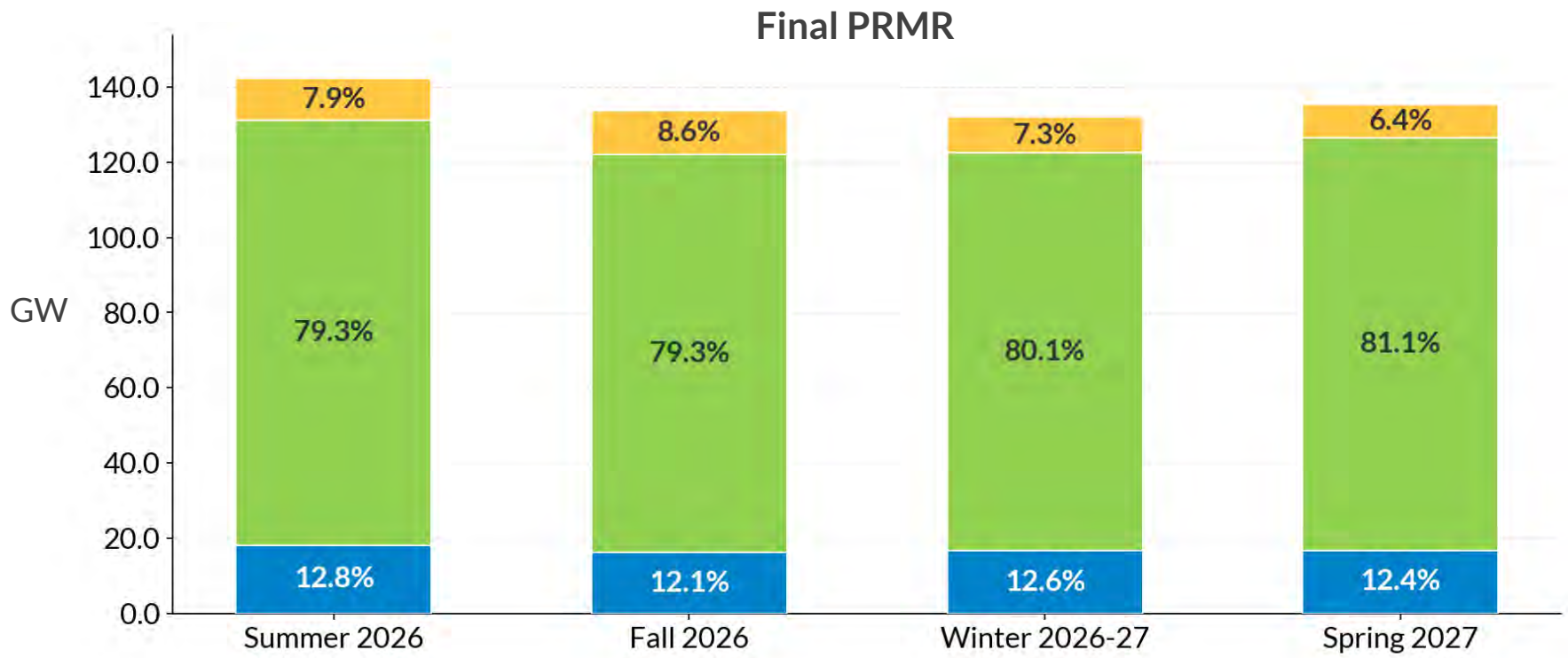
- No change to wind or solar accreditation methodology from previous years
- Methodology applied on a seasonal basis
- Wind ELCC and new solar capacity is established in the LOLE Study
- New solar class average
  - Summer, Fall, Spring: 50%; Winter: 5%



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer ELCC	14.1%	14.7%	15.6%	15.6%	15.2%	15.7%	16.6%	16.3%	15.5%	18.1%	18.1%	20.8%	18.2%
Fall ELCC										23.1%	15.6%	30.7%	23.0%
Winter ELCC										40.3%	53.1%	29.0%	30.9%
Spring ELCC										23.0%	18.0%	25.3%	19.3%

ELCC: Effective Load Carrying Capability LOLE: Loss of Load Expectation

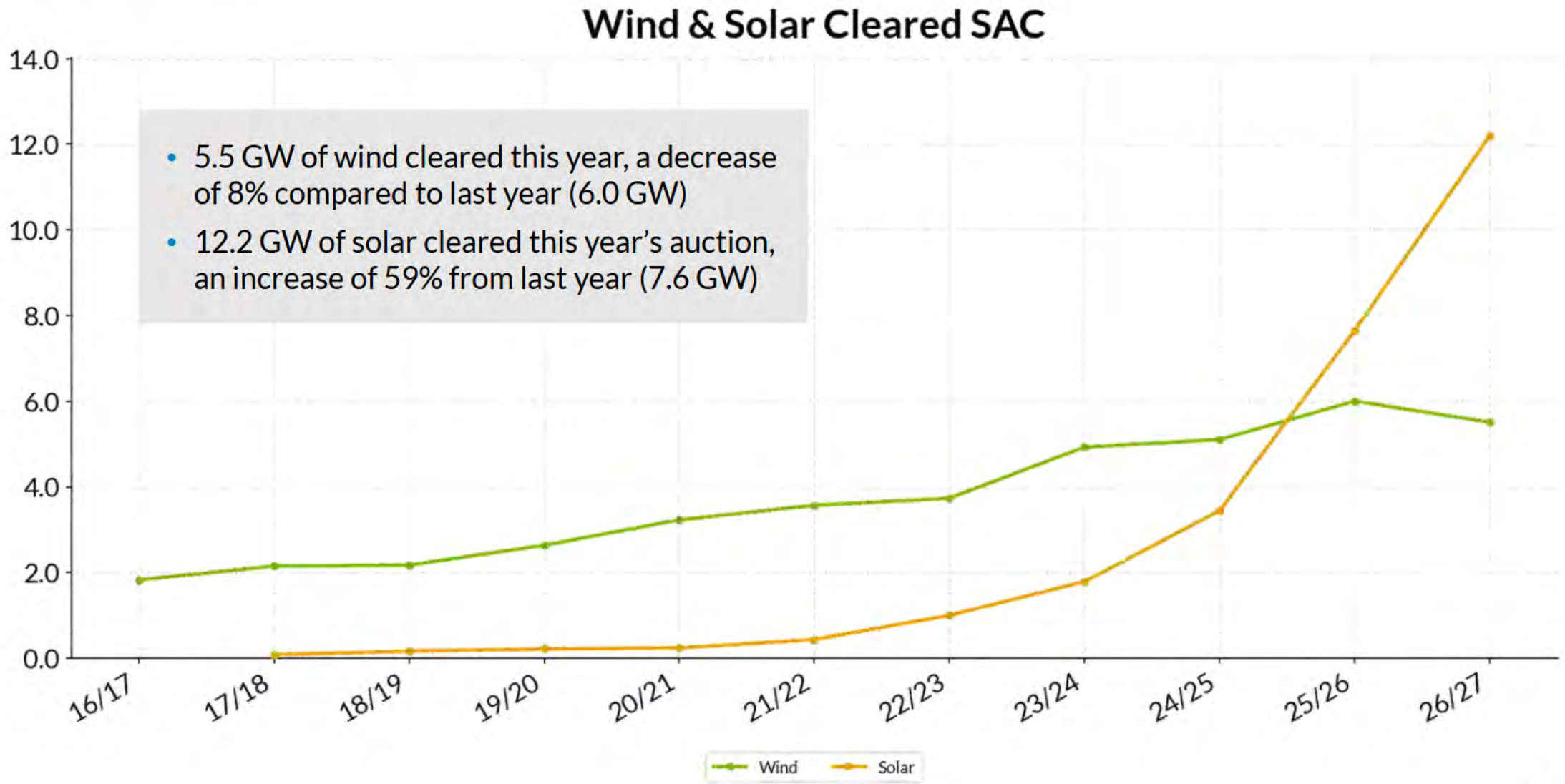
2026/27 Seasonal Resource Adequacy Requirements are fulfilled similarly across all four seasons



	Summer 2026	Fall 2026	Winter 2026-27	Spring 2027
Cleared Non-Self Scheduled	11,305.4	11,506.8	9,582.2	8,706.9
Self Scheduled	112,880.8	105,957.6	105,773.5	109,740.8
FRAP	18,188.1	16,164.4	16,626.8	16,819.4

PRMR: Planning Reserve Margin Requirement FRAP: Fixed Resource Adequacy Plan

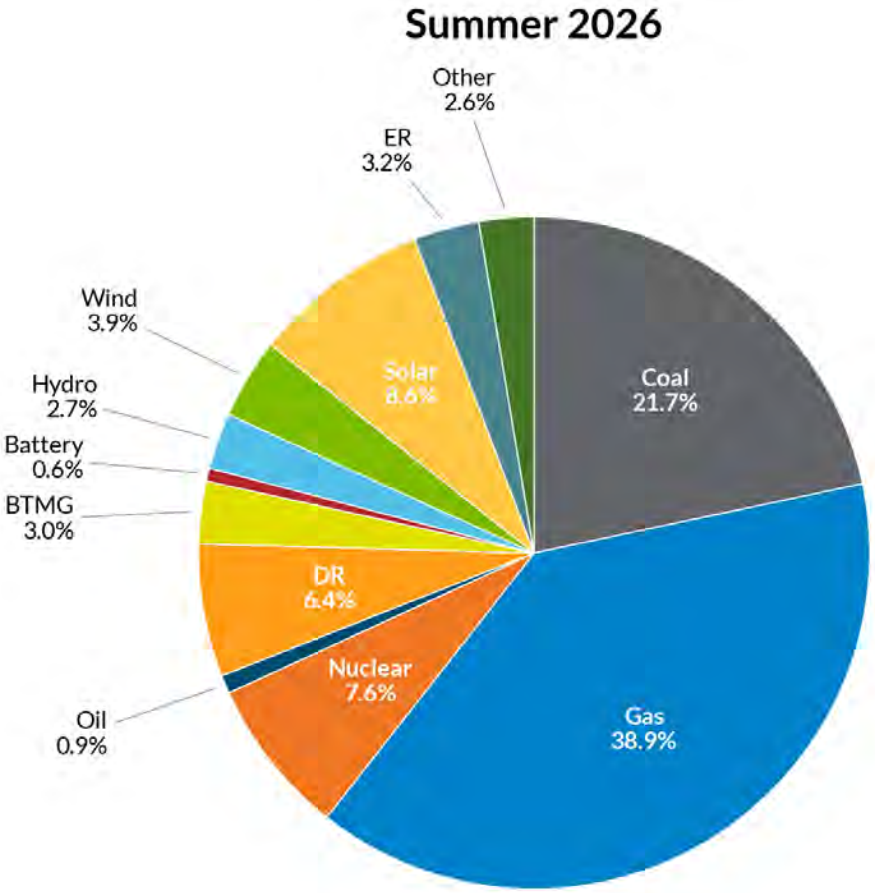
Although conventional generation still comprises most of the capacity, wind and solar continue to grow



- 5.5 GW of wind cleared this year, a decrease of 8% compared to last year (6.0 GW)
- 12.2 GW of solar cleared this year's auction, an increase of 59% from last year (7.6 GW)

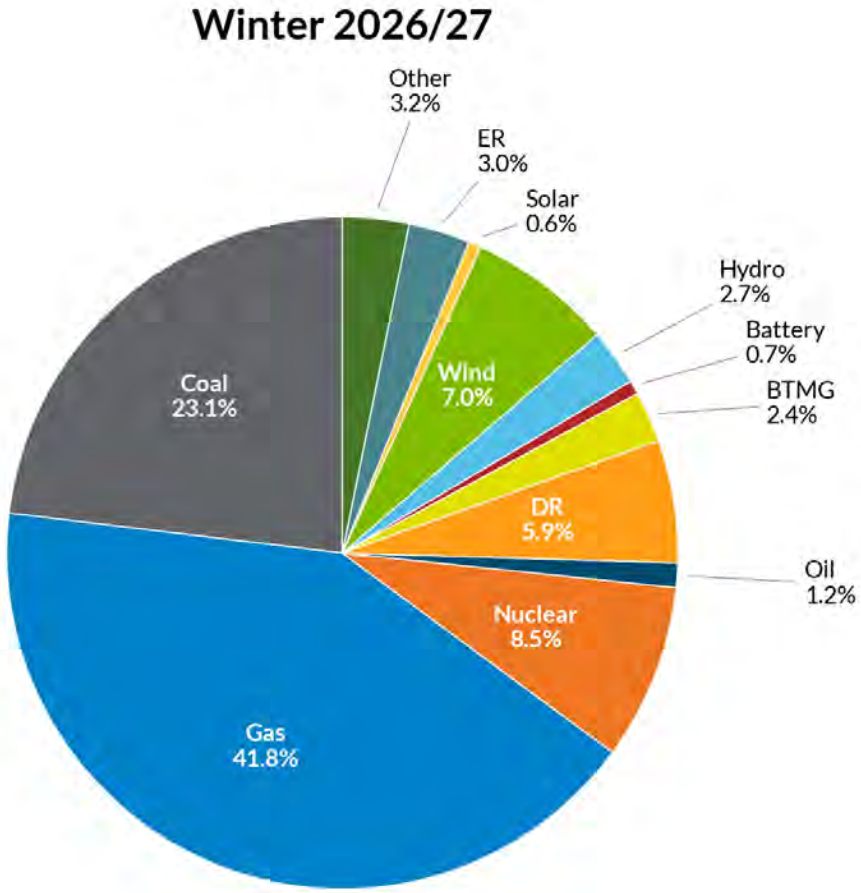
SAC: Seasonal Accredited Capacity

Winter Final PRMR is 6.6 GW (4.8%) lower than the summer with fewer solar resources to meet Final PRMR in the winter versus the summer



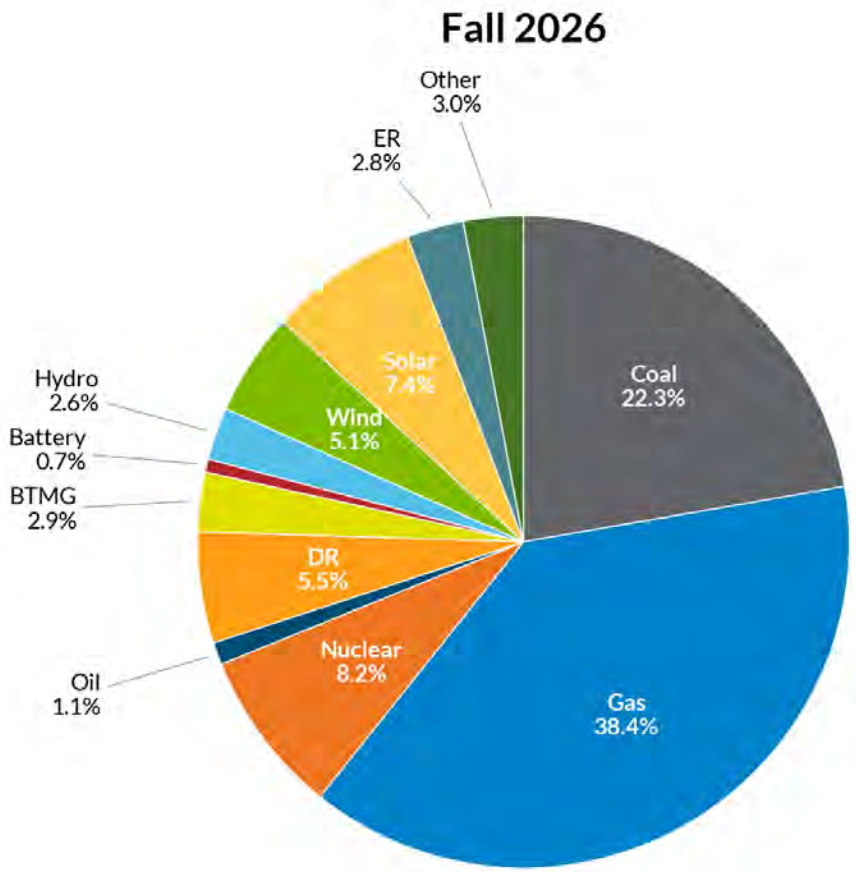
MISO-Wide

Cleared ZRC	Summer 2026	Winter 2026/27	Difference
Coal	30,884.7	30,492.7	392.0
Gas	55,391.4	55,158.7	232.7
Nuclear	10,782.8	11,167.2	-384.4
Oil	1,246.5	1,548.8	-302.3
DR	9,099.5	7,789.6	1,309.9
BTMG	4,272.9	3,228.3	1,044.6
Battery	893.8	870.4	23.4
Hydro	3,843.1	3,595.9	247.2
Wind	5,509.1	9,196.2	-3,687.1
Solar	12,198.3	801.9	11,396.4
ER	4,490.6	3,911.0	579.6
Other	3,761.6	4,221.8	-460.2
PRMR	**142,374.3**	**131,982.5**	**10,391.8**



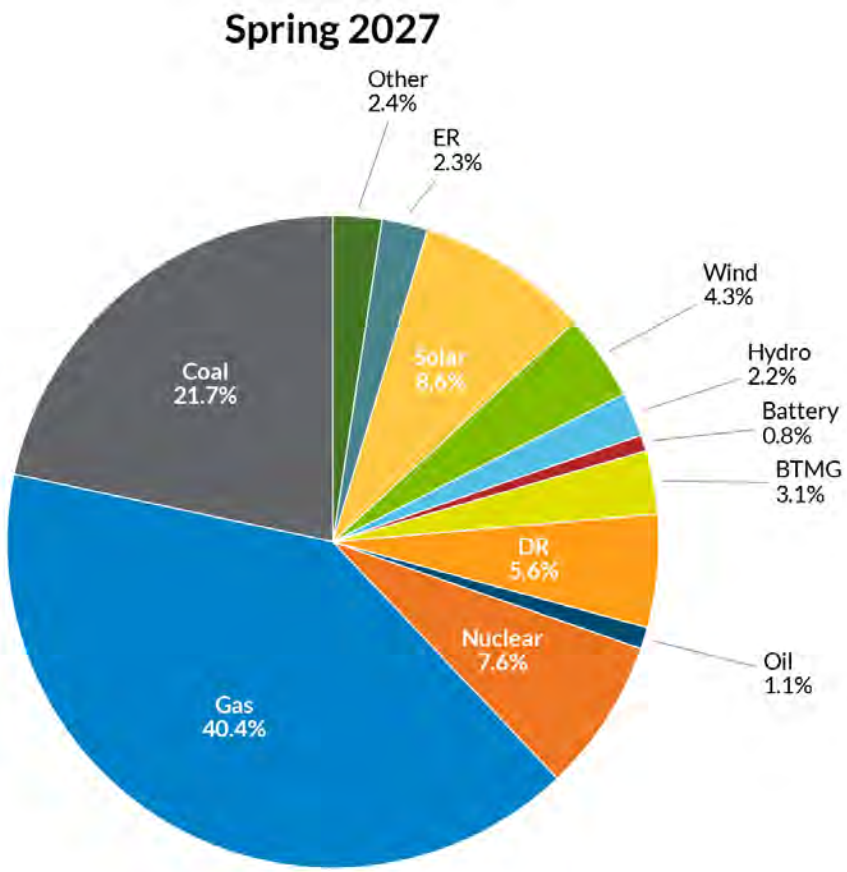
PRMR: Planning Reserve Margin Requirement

Fall 2026 and Spring 2027 - Cleared ZRCs and Final PRMR



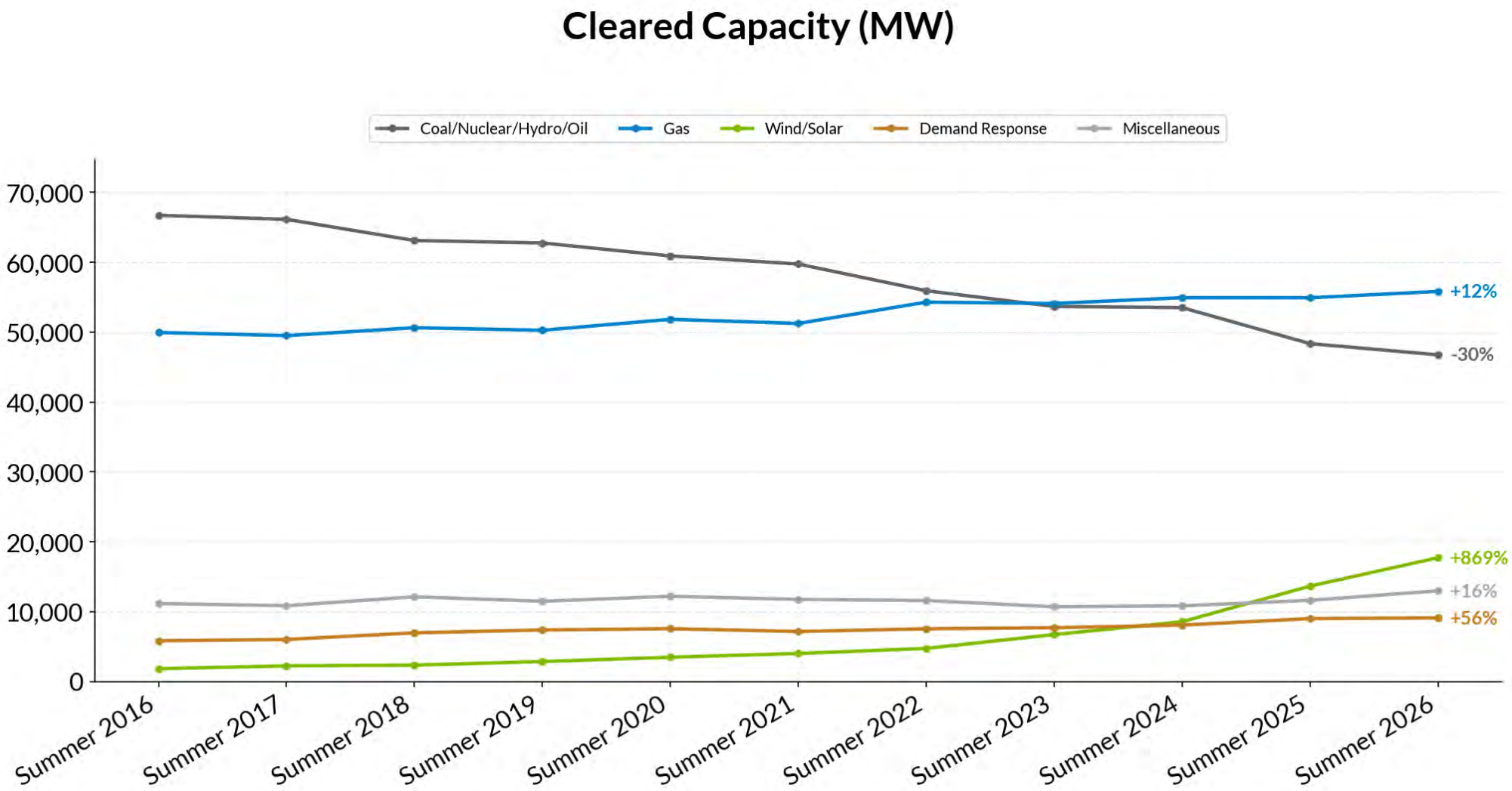
MISO-Wide

Cleared ZRC	Fall 2026	Spring 2027	Difference
Coal	29,777.7	29,324.7	453.0
Gas	51,370.6	54,663.4	-3,292.8
Nuclear	10,900.3	10,286.7	613.6
Oil	1,471.9	1,448.6	23.3
DR	7,364.4	7,576.5	-212.1
BTMG	3,923.0	4,240.2	-317.2
Battery	873.3	1,070.8	-197.5
Hydro	3,475.3	2,964.0	511.3
Wind	6,797.3	5,757.1	1,040.2
Solar	9,932.9	11,595.0	-1,662.1
ER	3,780.2	3,076.5	703.7
Other	3,961.9	3,263.6	698.3
PRMR	**133,628.8**	**135,267.1**	**-1,638.3**

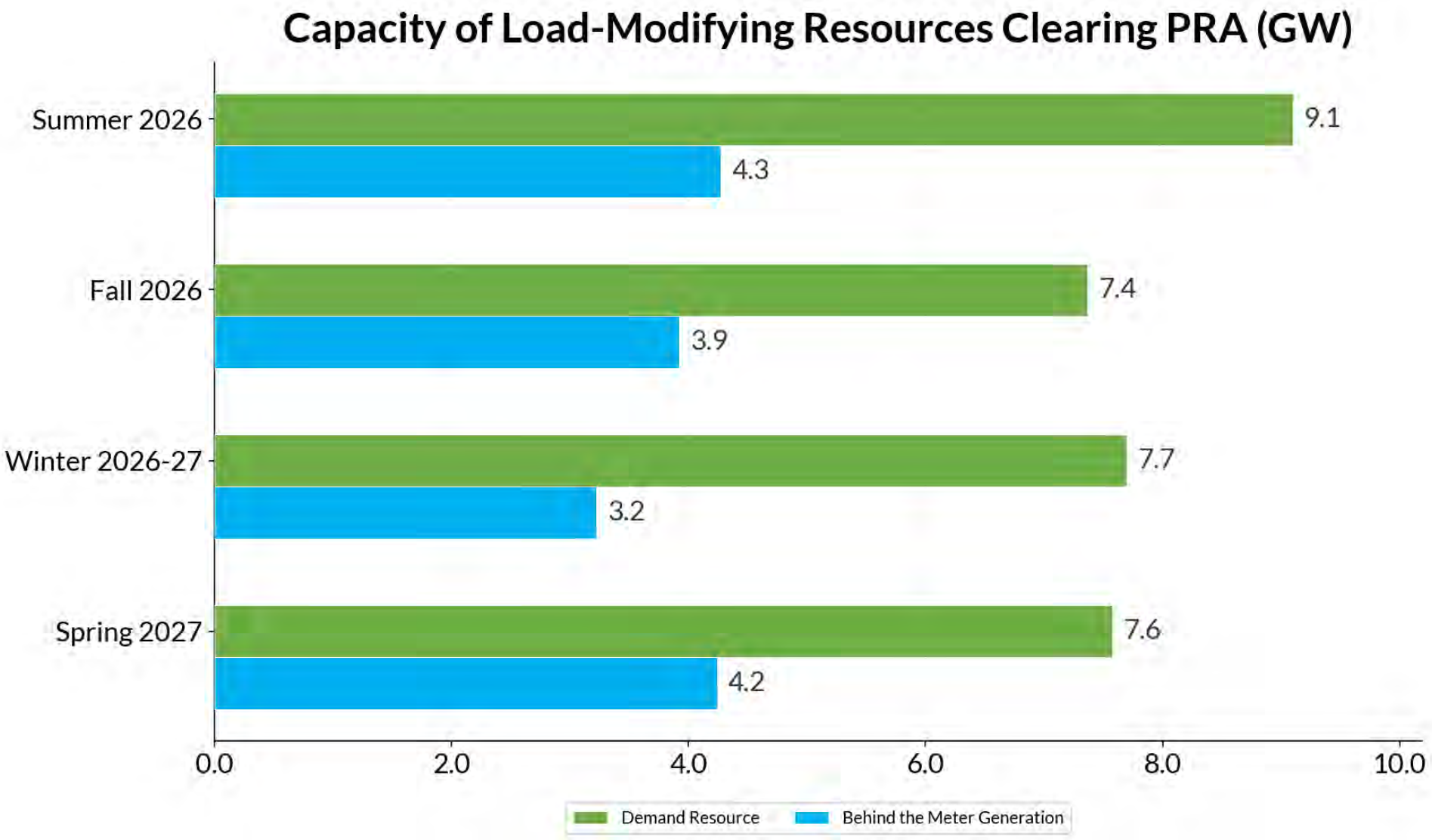


PRMR: Planning Reserve Margin Requirement ZRC: Zonal Resource Credit

The planning resource mix shows the continuation of a multi-year trend towards less coal/nuclear/hydro/oil and increased gas and non-conventional resources



2026/27 Seasonally Cleared Load Modifying Resources Comparison



PRA: Planning Resource Auction



Visit MISO's Help Center for more information
https://help.misoenergy.org/

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 185A
MISO 2026-27 Auction Results – Original



Planning Resource Auction Results for Planning Year 2026/27

April 2026

Executive Summary



- For the 2026 Planning Resource Auction (PRA), all zones show sufficient resources at the regional, subregional, and zonal levels to meet resource adequacy requirements across all four seasons
- The Reliability Based Demand Curve (RBDC) framework ensures a reliability-focused pricing structure that accurately reflects the reliability value of capacity above (and below) resource adequacy targets, while helping with the price stability
- The 2026 PRA has set annualized price in the range of $116 - $126 per MW-day for the 2026-2027 Planning Year
- Capacity offered into the auction increased by as much as 4% compared to last year's PRA
- New generation capacity is coming online, but faster resource additions are still needed to support large-load growth and ensure resource adequacy

MISO met the planning year 2026/27 resource adequacy requirements, with gains in offered capacity outpacing pressure of load growth on increased requirements

Summer

$424.30 (North/Central)
$384.10 (LRZs 8, 10)
$412.10 (LRZ 9)

Annualized

$126.19 (North/Central)
$116.06 (LRZs 8, 10)
$123.12 (LRZ 9)

Fall

$33.92

Winter

$35.97

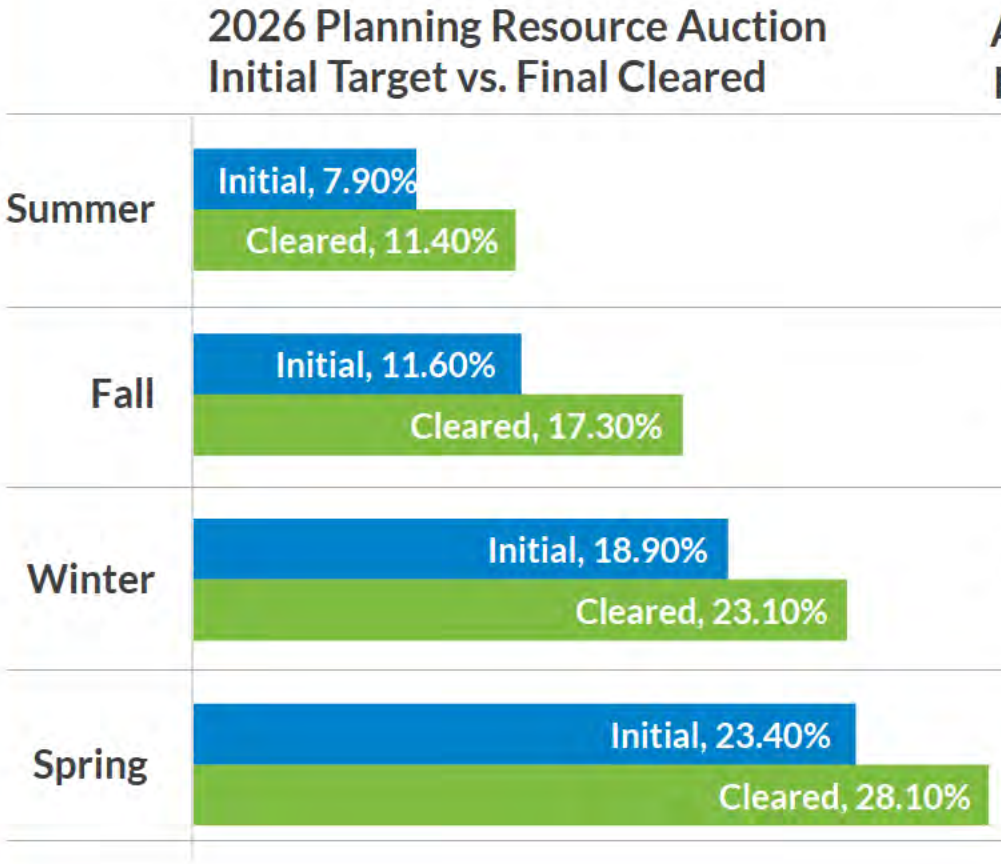
Spring

$7.61

- More capacity was offered than last year, which offset higher demand and improved reliability across seasons
- The summer auction cleared with a reserve margin 3.5 points above the 7.9% target
- Summer remains tight, so prices reflect the limited surplus available
  - Price differences were influenced by transfer limitations between the North and South
  - LRZ 9 needed more local capacity, driving a higher clearing price
- Most customers (~92%) secured capacity ahead of time or self supplied, reducing their sensitivity to auction outcomes
- The surplus above target was 2.0 GW higher than last summer, even with a +2.7 GW increase in required capacity (Initial PRMR)
- New capacity and more imports outweighed lower accreditation and retirements/suspensions
- Capacity additions need to continue, given expected growth from new large loads

MISO's RBDC improves price signals, reflecting the increased value of accredited capacity beyond seasonal reliability targets

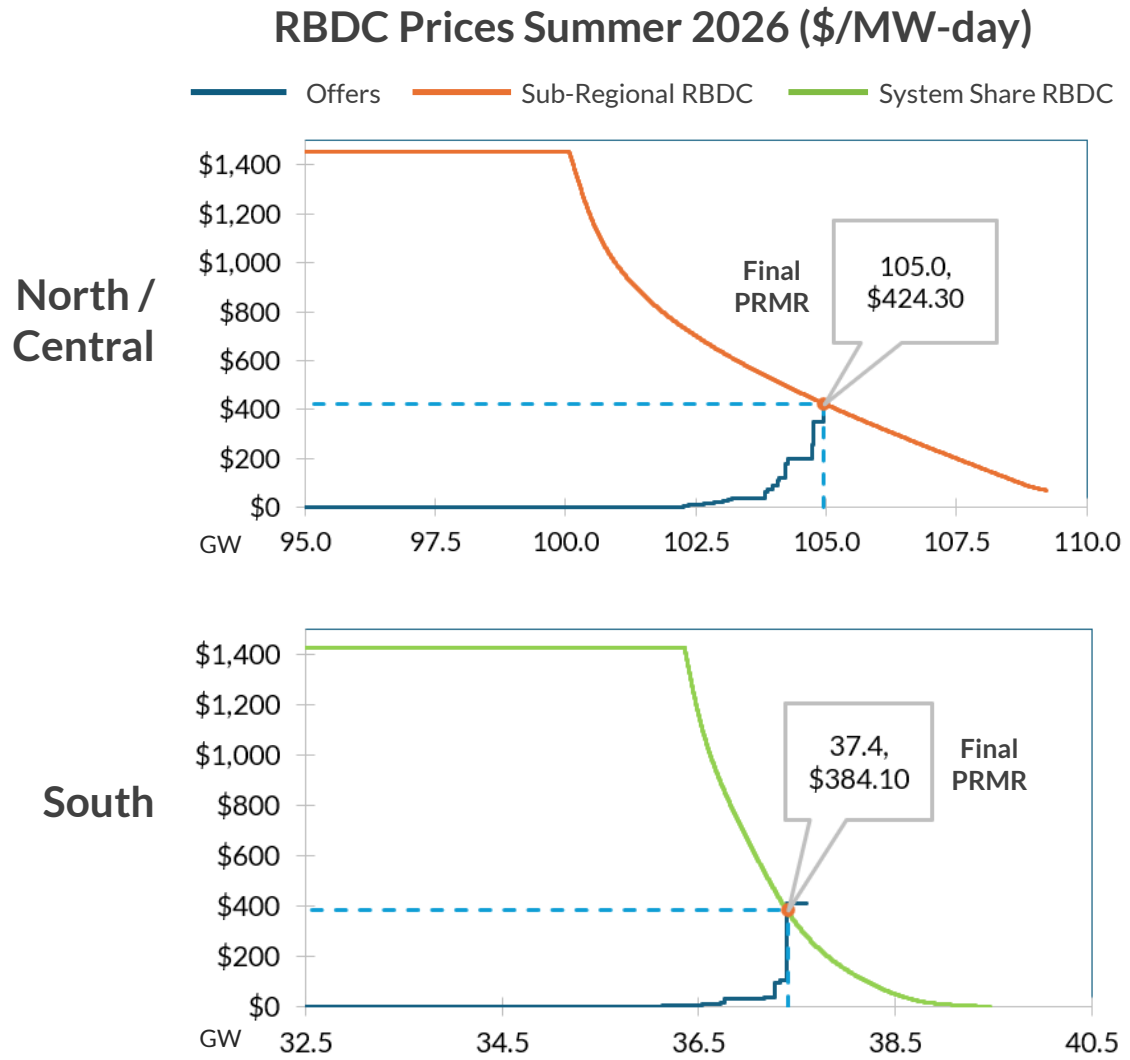
Auction cleared above seasonal initial reliability targets, representing additional reliability value at cost-competitive prices



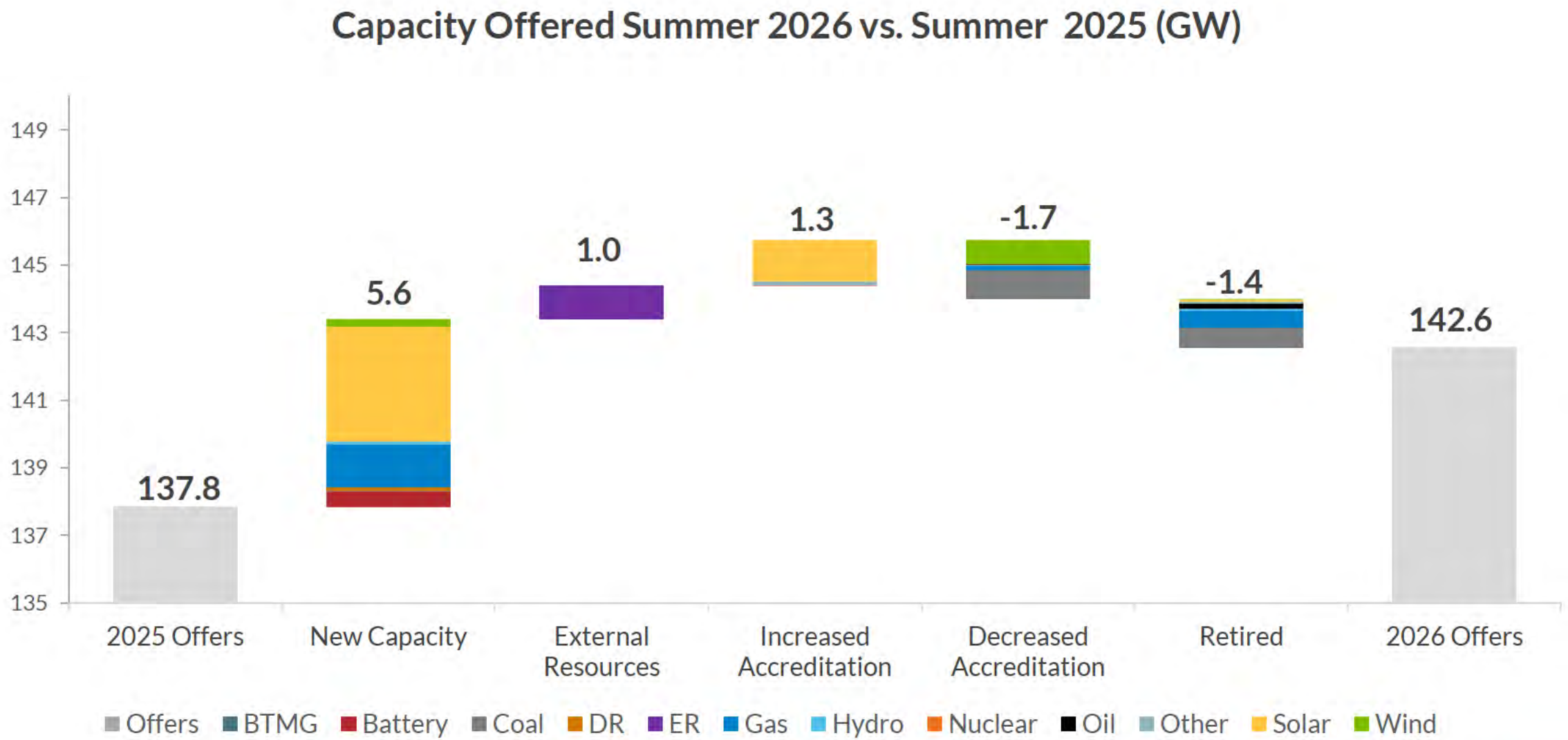
Under RBDC, each season has an initial reliability target (PRM%)

Pricing outcomes with the RBDC reflect both volume and pricing of offered capacity

- Summer clearing of $424.30 reflects highest reliability risk and increasing surplus capacity year-over-year
  - Summer surplus capacity has increased from 2.6 GW in 2025 to 4.6 GW in 2026
- Incremental capacity cleared beyond the target PRM based on the value it adds to reliability
  - Example: North/Central "effective" summer margin at 12.0% and South at 9.7% vs. target 7.9%
  - A small quantity of capacity offered at a price higher than the reliability value indicated through the demand curve did not clear
  - LRZ 9 cleared at $412.10 to satisfy LCR



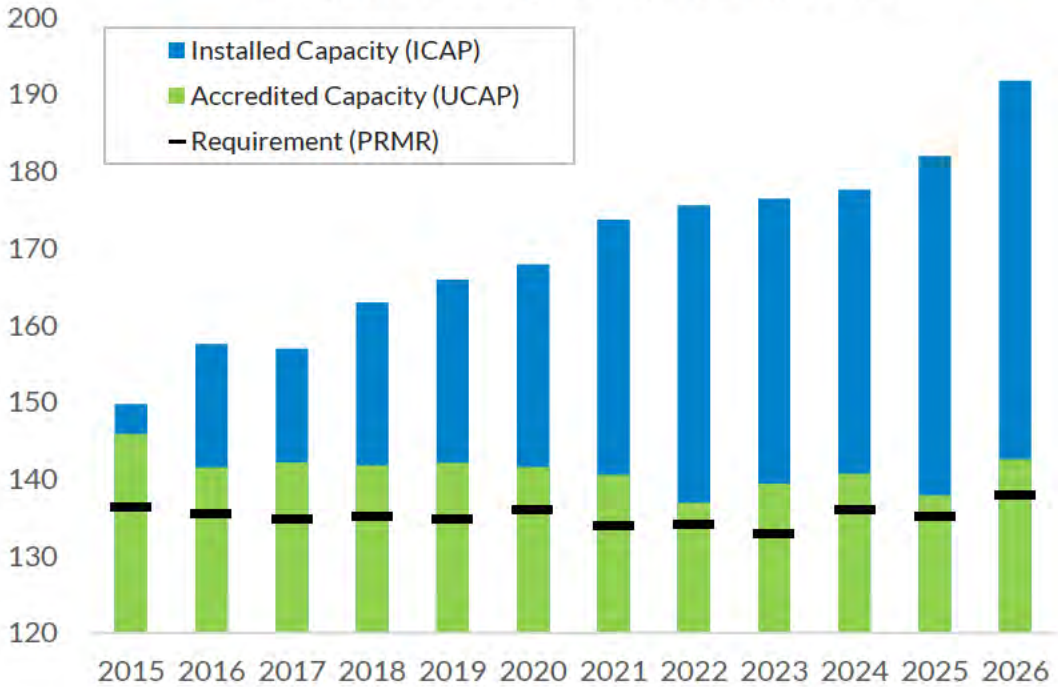
New capacity additions outpaced decreased accreditation and suspensions/retirements



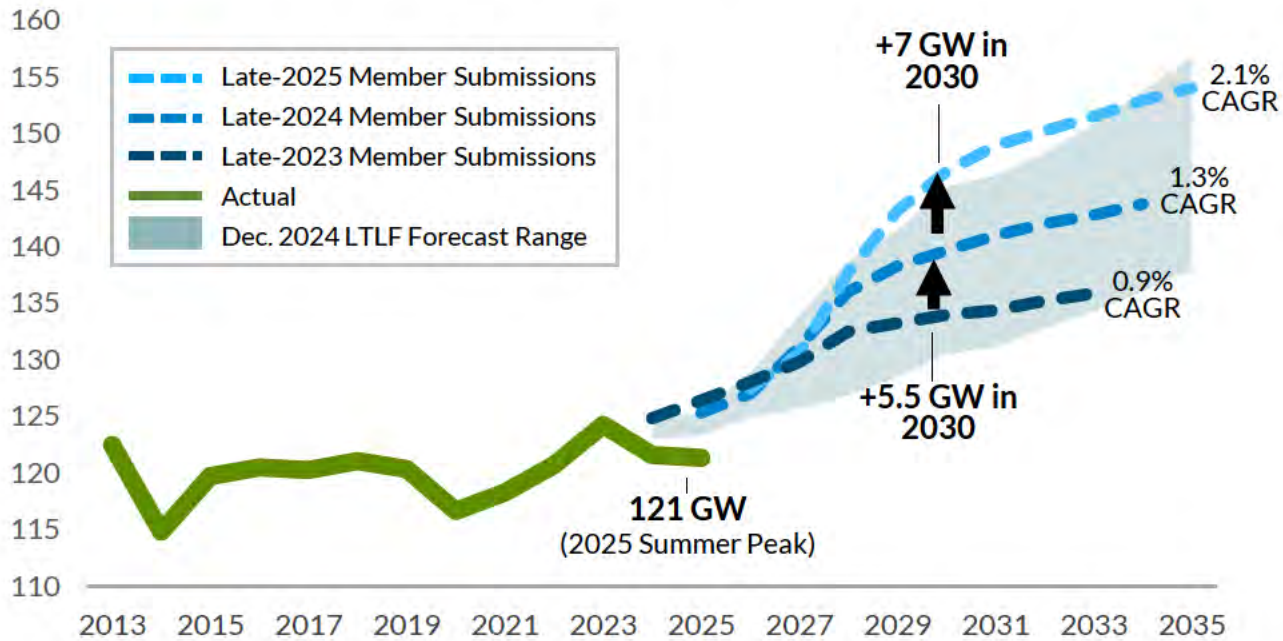
BTMG: Behind the Meter Generation. Capacity indicated is offered accredited value.

While our market reforms have helped hold the line amidst tighter reserve margin compared to the prior decade, resource adequacy remains at risk, especially as demand for large load additions accelerate

Available Capacity and Reliability Requirements from MISO Planning Resource Auctions



Recent Member and MISO Load Forecasts Net Coincident Peak (GW)



MISO has acted on many Reliability Imperative initiatives to address resource adequacy challenges, but continued collaboration on other priorities focused on readiness, speed and transparency is critical

Completed Initiatives

- ✓ Implemented Reliability-Based Demand Curve in 2025 PRA
- ✓ Began interim Expedited Resource Addition Study (ERAS) process *(June 2025)*
- ✓ Implemented Generation Interconnection Queue cap
- ✓ Reduced early phase of interconnection queue process
- ✓ Approved 10,570+ miles of new transmission lines

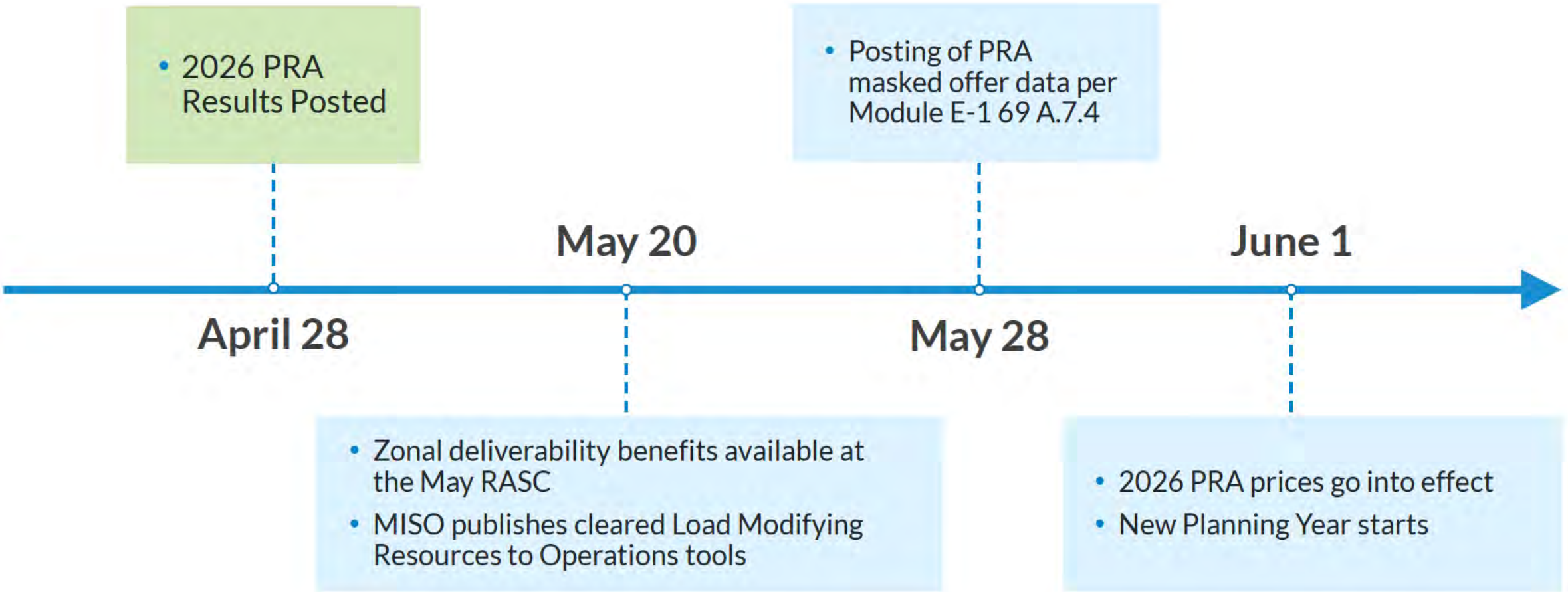
Initiatives In Progress

- Implement Direct Loss of Load (DLOL)-based accreditation
- Enhance resource adequacy risk modeling
- Improve queue cycle to 373 days
- Demand Response and Emergency Resource reforms
- Enhance allocation of resource adequacy requirements
- Reliability and Market requirements for Large Loads, Generation with Zero-Injection GIAs

Ongoing Challenges

- More frequent extreme weather
- Accelerating demand for electricity and large load interconnections
- Loss of accredited capacity and reliability attributes as resource mix evolves
- Pace of new resources additions
- Address local reliability (load pocket) issues
- Evolve storage participation

Next Steps


• 2026 PRA Results Posted
April 28
May 20
• Zonal deliverability benefits available at the May RASC
• MISO publishes cleared Load Modifying Resources to Operations tools
• Posting of PRA masked offer data per Module E-1 69 A.7.4
May 28
June 1
• 2026 PRA prices go into effect
• New Planning Year starts

Appendix



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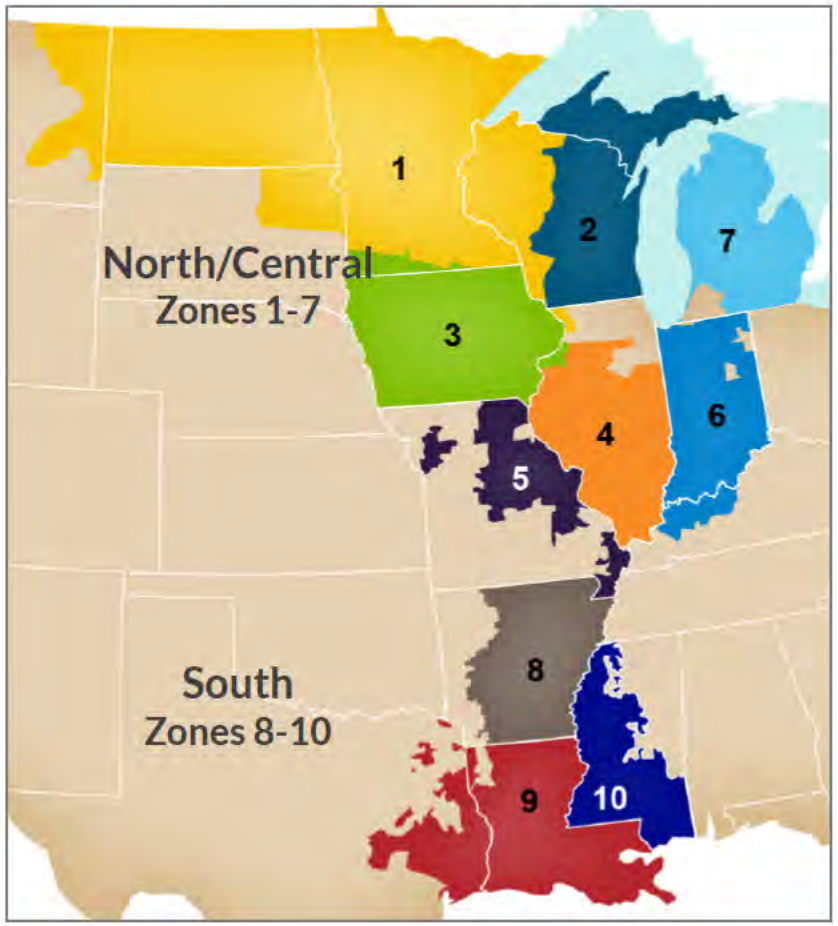
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Acronyms

ACP: Auction Clearing Price
ARC: Aggregator of Retail Customers
BTMG: Behind the Meter Generator
CIL: Capacity Import Limit
CEL: Capacity Export Limit
CONE: Cost of New Entry
CPF: Coincident Peak Forecast
DLOL: Direct Loss-of-Load
DR: Demand Resource
ELCC: Effective Load Carrying Capability
EE: Energy Efficiency
ER: External Resource
ERAS: Expedited Resource Addition Study
ERZ: External Resource Zones
FRAP: Fixed Resource Adequacy Plan
ICAP: Installed Capacity
IMM: Independent Market Monitor
LBA: Load Balancing Authority
LCR: Local Clearing Requirement
LOLE: Loss of Load Expectation
LMR: Load Modifying Resource
LRR: Local Reliability Requirement
LRZ: Local Resource Zone
LSE: Load Serving Entity
OMS: Organization of MISO States
PO: Planned Outage
PRA: Planning Resource Auction
PRM: Planning Reserve Margin
PRMR: Planning Reserve Margin Requirement
RASC: Resource Adequacy Sub-Committee
RBDC: Reliability-Based Demand Curve
SAC: Seasonal Accredited Capacity
SREC: Sub-Regional Export Constraint
SRIC: Sub-Regional Import Constraint
SRPBC: Sub-Regional Power Balance Constraint
SS: Self Schedule
UCAP: Unforced Capacity
ZIA: Zonal Import Ability
ZRC: Zonal Resource Credit

The 2026 PRA demonstrated sufficient capacity at the regional, subregional and zonal levels, with the summer price reflecting the highest risk and a tighter supply-demand balance

MISO Resource Adequacy Zones



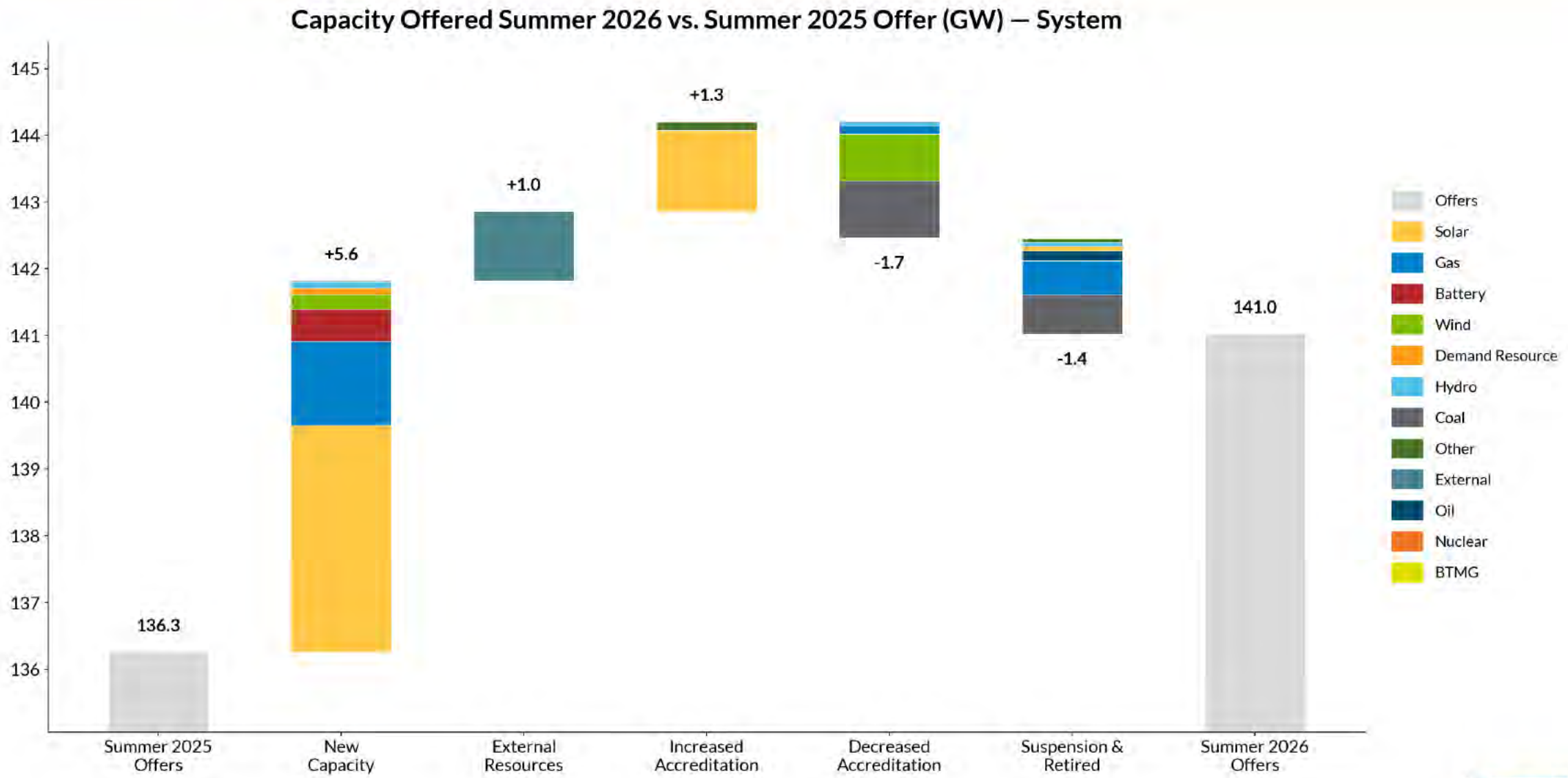
2026 PRA Results

	Price/MW-Day			
	Summer	Fall	Winter	Spring
1	$424.30	$33.92	$35.97	$7.61
2				
3				
4				
5				
6				
7				
8	$384.10			
9	$412.10			
10	$384.10			

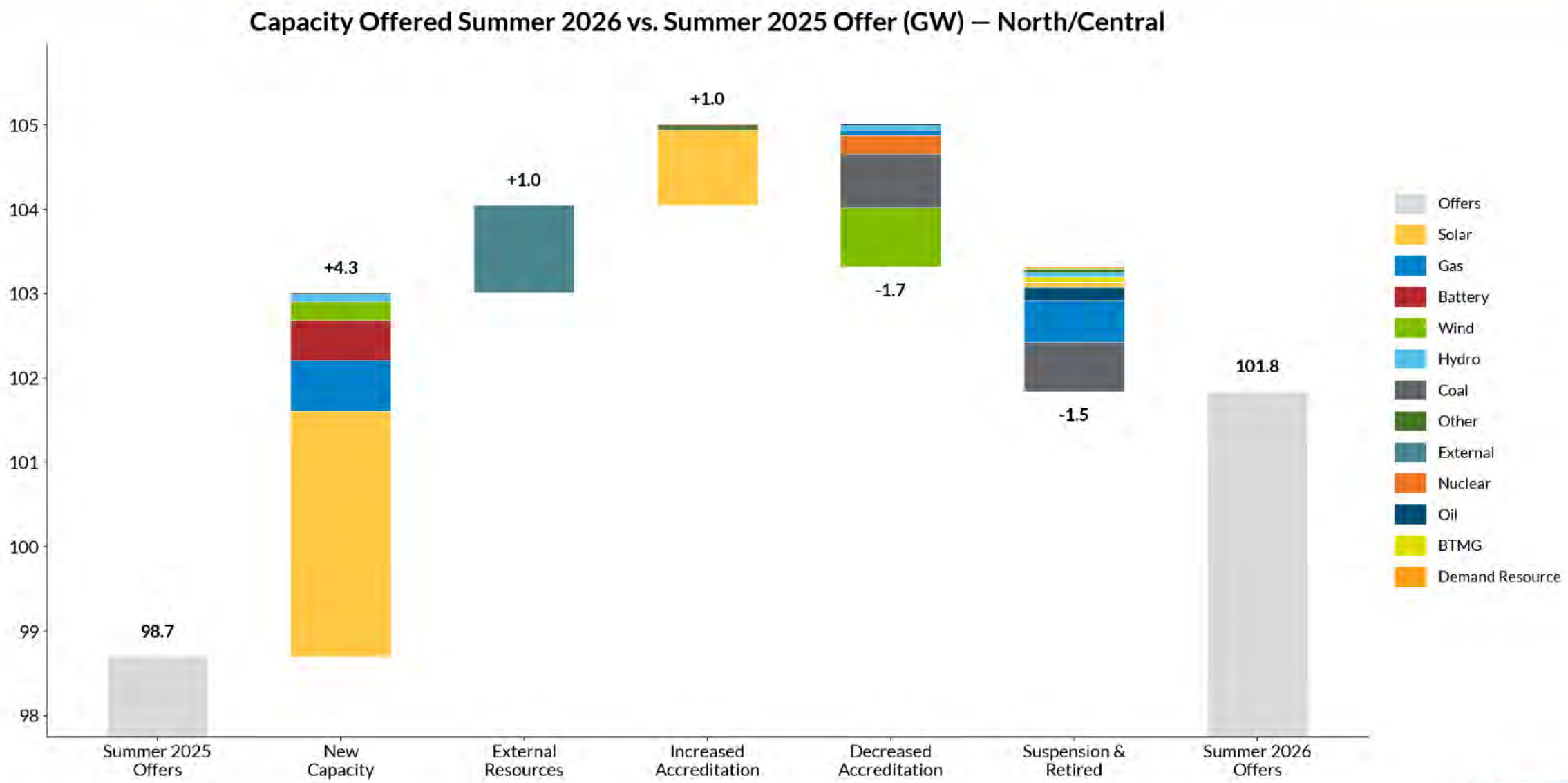
Annualized

$126.19 (N/C)
$116.06 (LRZs 8, 10)
$123.12 (LRZ 9)

Year-over-year change in capacity offers: Summer - System

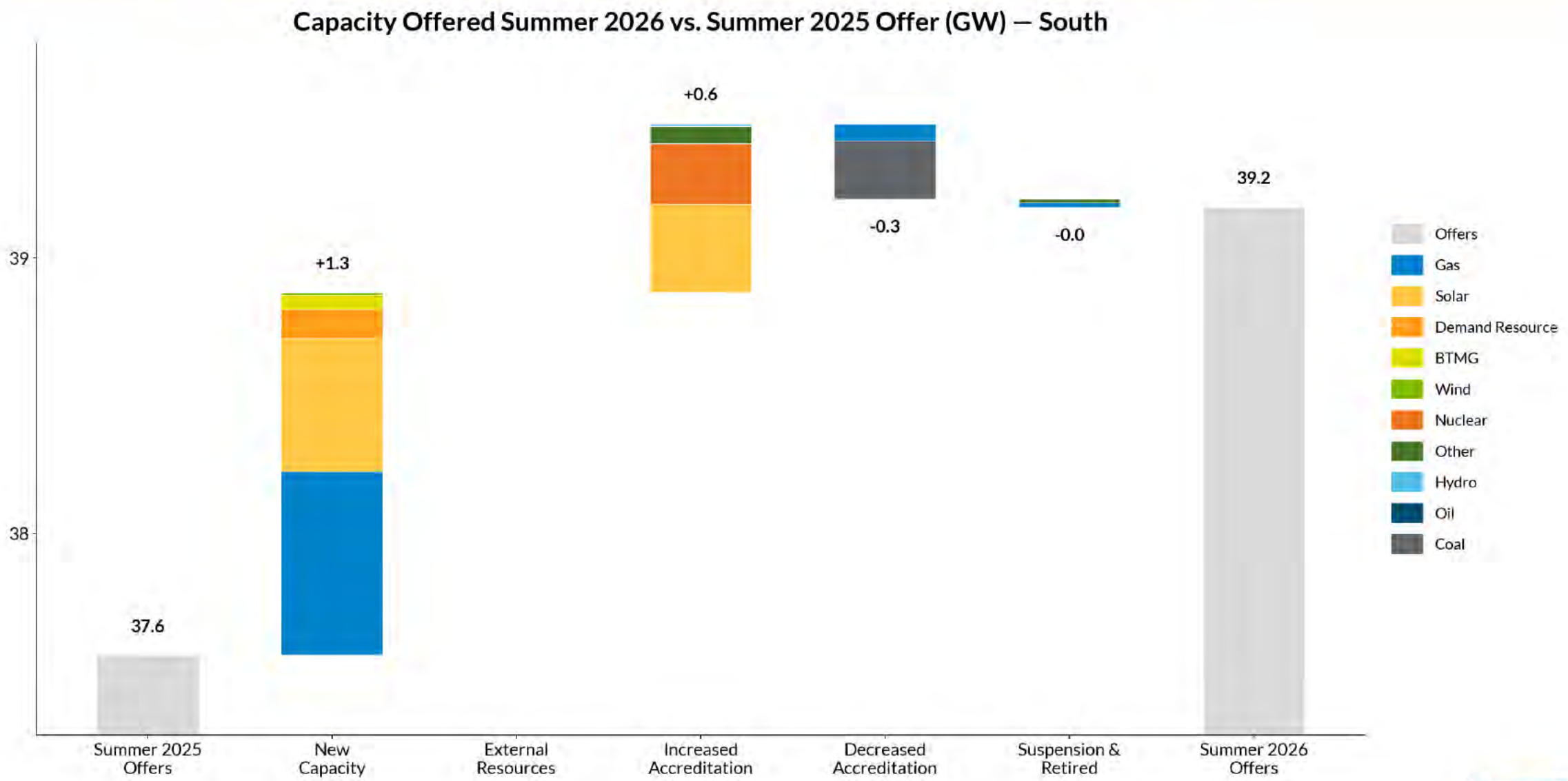


Year-over-year change in capacity offers: Summer – North/Central Subregion



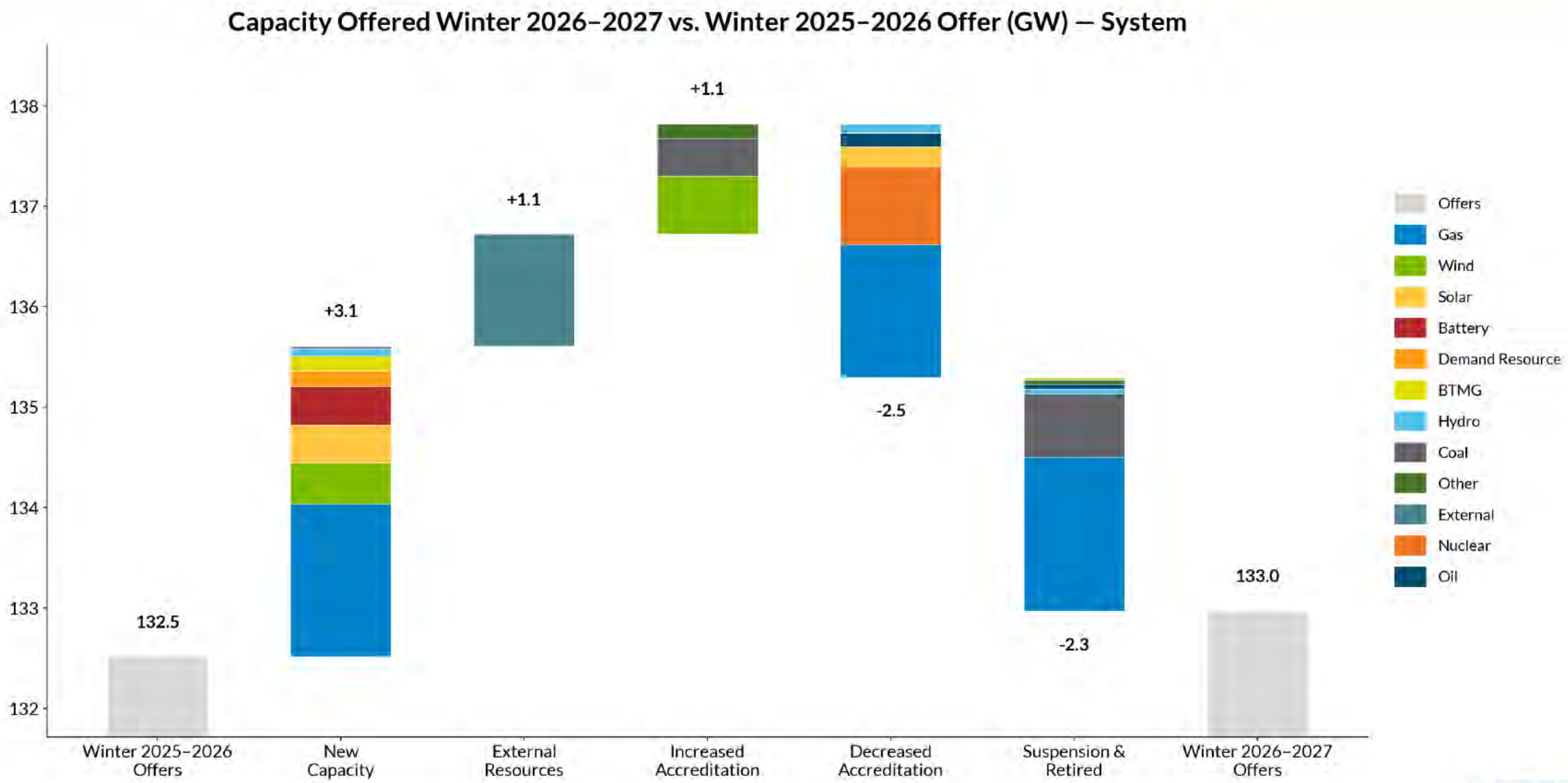
NOTE: External Resources included in North/Central charts for simplification

Year-over-year change in capacity offers: Summer – South Subregion

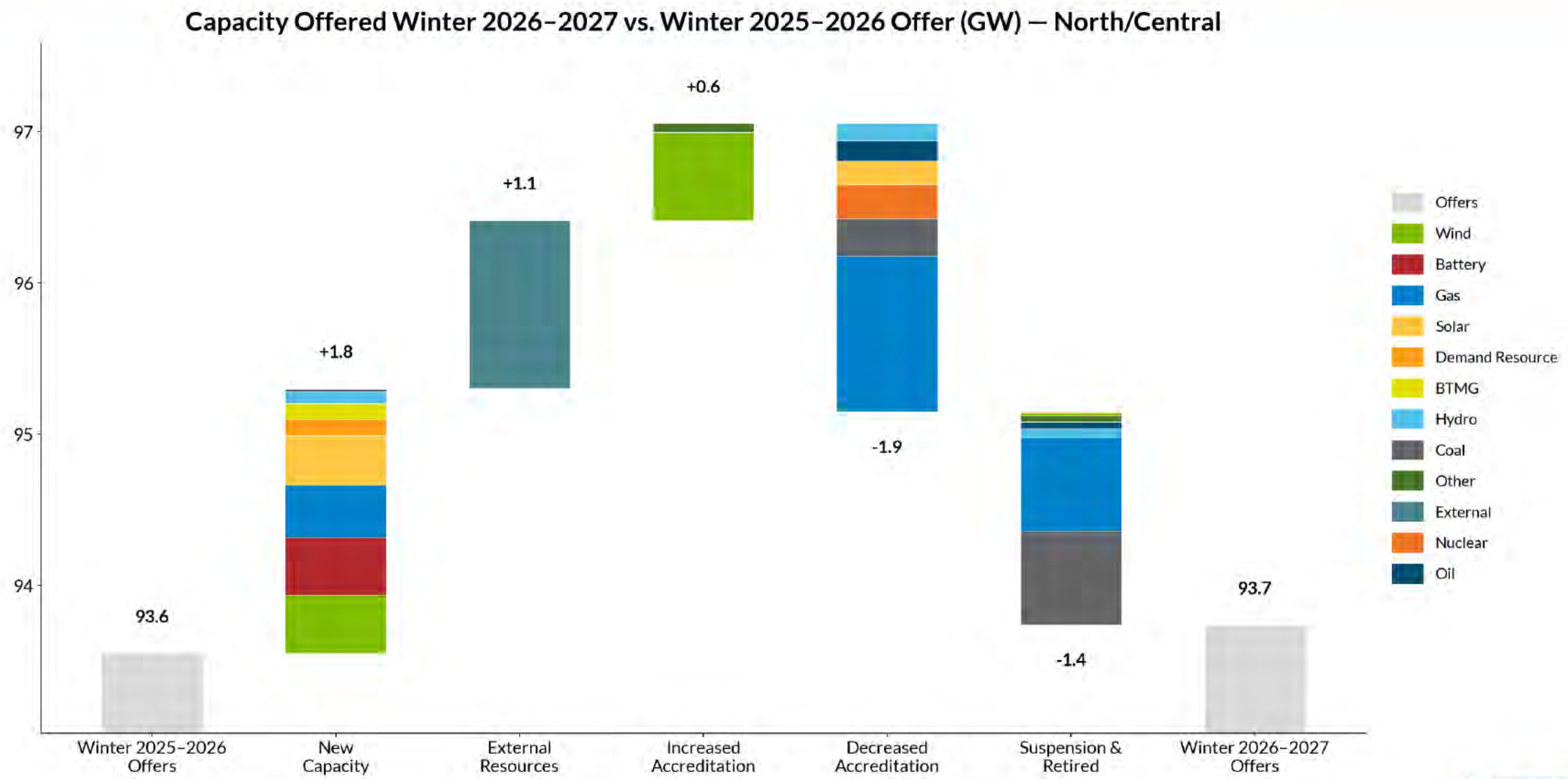


NOTE: External Resources included in North/Central charts for simplification

Year-over-year change in capacity offers: Winter – System

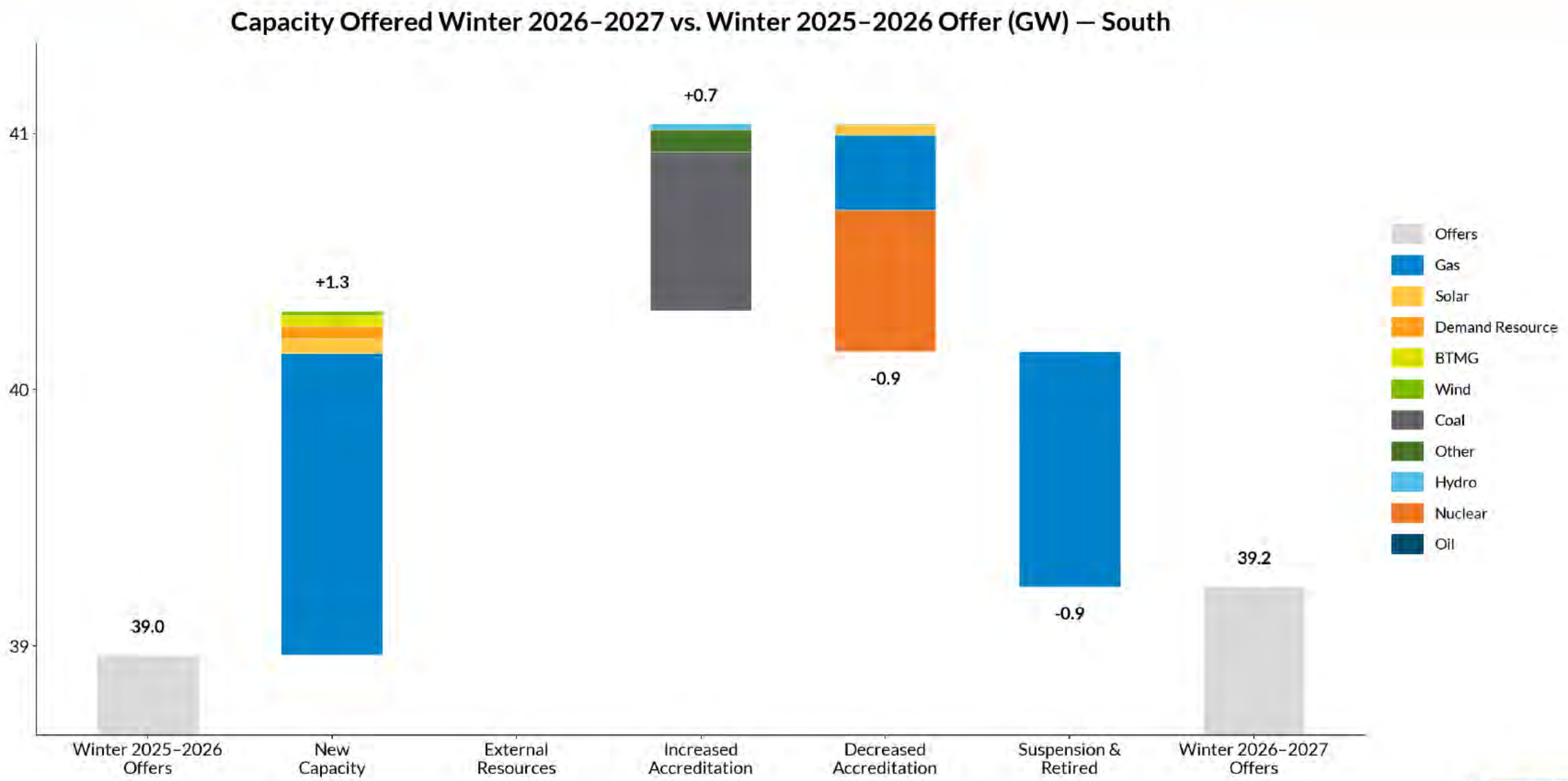


Year-over-year change in capacity offers: Winter – North/Central Subregion



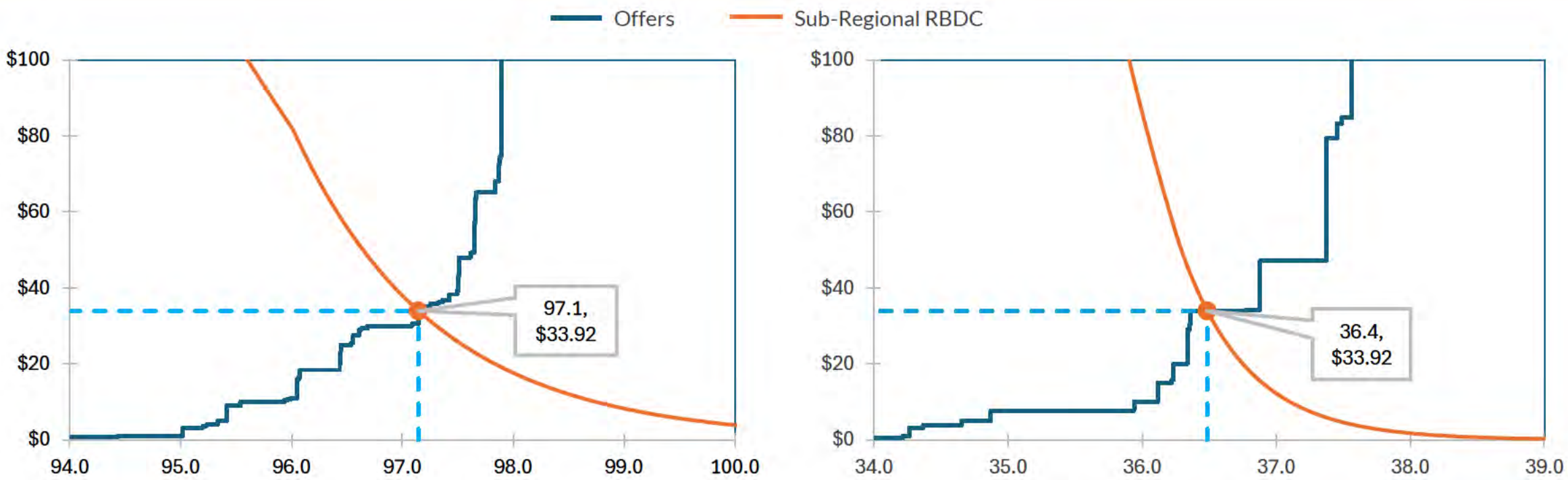
NOTE: External Resources included in North/Central charts for simplification

Year-over-year change in capacity offers: Winter – South Subregion



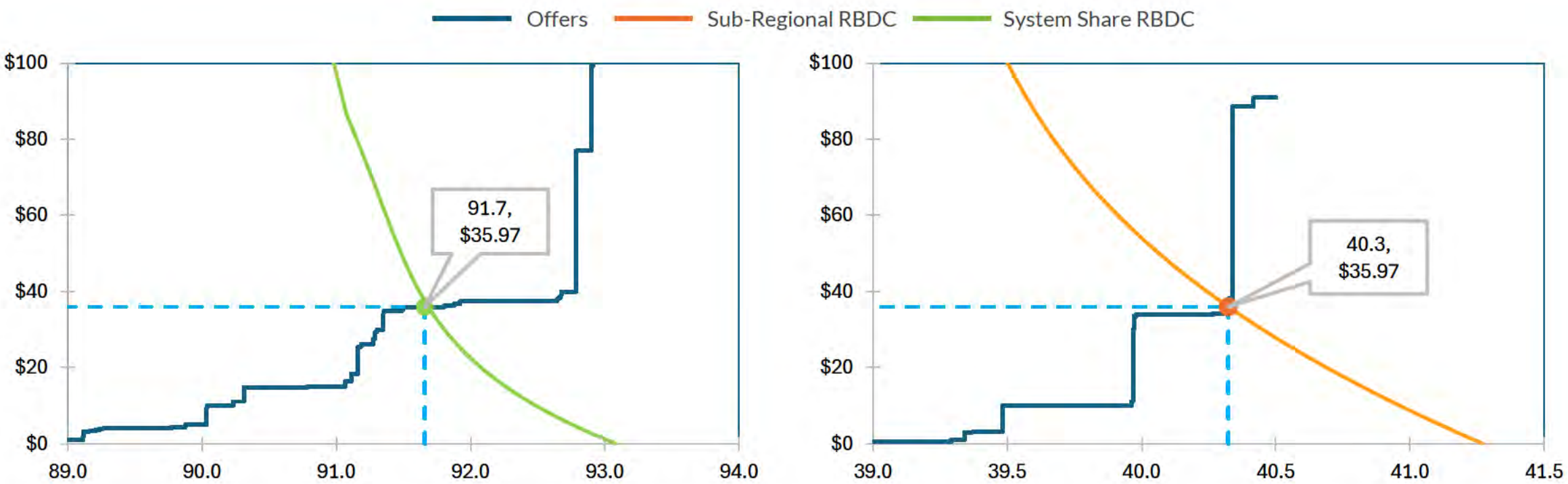
NOTE: External Resources included in North/Central charts for simplification

Fall 2026 Reliability-Based Demand Curve, Offer Curves and Auction Clearing Prices



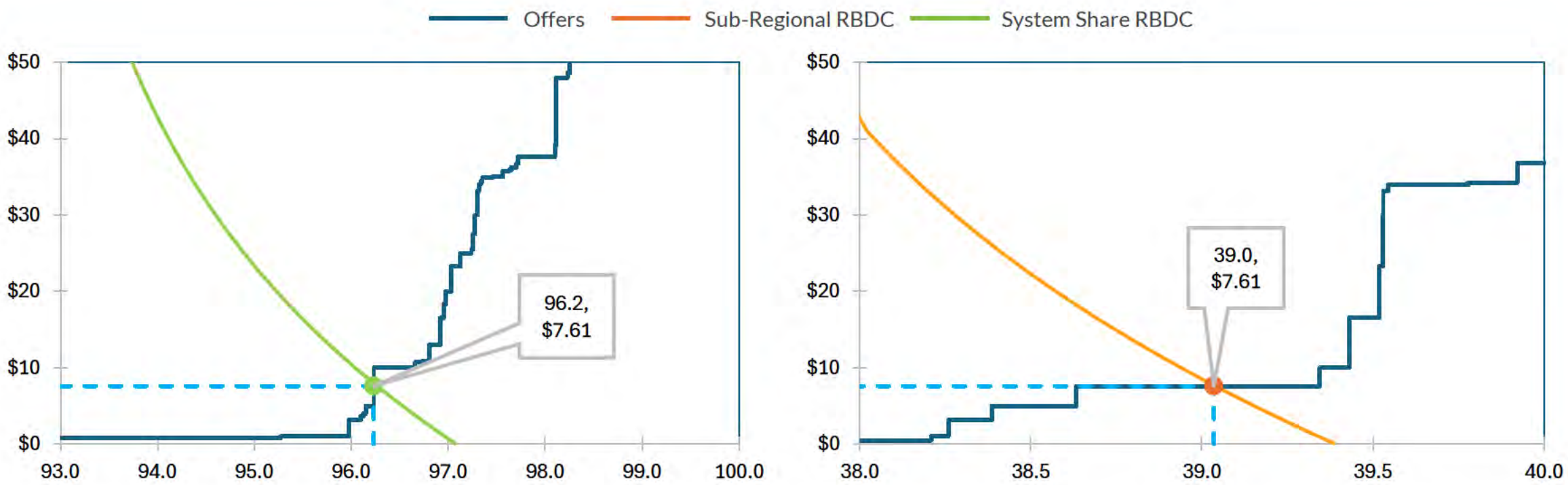
- Subregional RBDCs are determining clearing for both subregions
- No price separation between North/Central and South subregions in fall
  - ACP for both subregions is $33.92
  - Single marginal resource in South sets the price
- In fall season, "effective" margin for North/Central subregion is at 20.2% and 22.4 % for South subregion vs. target of 11.6%

Winter 2026/27 Reliability-Based Demand Curve, Offer Curves and Auction Clearing Prices



- Share of System RBDC determined clearing in the North/Central subregion
- Subregional RBDC determines clearing in the South subregion
- No price separation between North/Central and South subregions in winter
  - ACP for both subregions is $35.97; Multiple marginal resources in North/Central set the price
- In winter, "effective" margin for North/Central subregion is at 19.5% and 30.1% for South subregion vs. target of 18.9%

Spring 2027 Reliability-Based Demand Curve, Offer Curves and Auction Clearing



- Share of System RBDC determined clearing in the North/Central subregion
- Subregional RBDC determines clearing in the South subregion
- No price separation between North/Central and South subregions in spring
  - ACP for both subregions is $7.61; Multiple marginal resources in South set the price
- In spring, "effective" margin for North/Central subregion is at 28.0% and 35.3% for South subregion vs. target of 23.4%

Summer 2026 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ	North	South	System
Initial PRMR	18,968.1	13,425.3	11,290.0	9,194.7	8,455.7	18,778.8	21,004.1	8,691.4	22,548.5	5,566.2	N/A	101,116.7	36,806.1	137,922.8
Final PRMR	19,688.5	13,935.4	11,719.1	9,543.7	8,777.4	19,492.0	21,802.2	8,835.6	22,921.9	5,658.5	N/A	104,958.3	37,416.0	142,374.3
Offer Submitted (Including FRAP)	19,568.4	15,061.4	11,298.8	10,634.6	7,119.2	16,753.8	21,403.4	11,998.8	21,368.7	5,816.8	1,529.2	103,058.3	39,494.8	142,553.1
FRAP	4,609.7	8,203.5	341.2	463.6	0.0	1,245.0	1,291.8	434.5	0.0	1,562.5	36.3	16,188.4	1,999.7	18,188.1
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	14,641.3	6,682.7	10,725.5	8,435.5	6,934.9	10,365.0	19,814.5	11,031.1	19,109.6	3,999.3	1,141.4	78,542.5	34,338.3	112,880.8
Non-SS Offer Cleared	317.4	175.2	232.1	1,735.5	184.3	5,143.8	297.1	533.2	2,080.3	255.0	351.5	8,327.4	2,978.0	11,305.4
Committed (Offer Cleared + FRAP)	19,568.4	15,061.4	11,298.8	10,634.6	7,119.2	16,753.8	21,403.4	11,998.8	21,189.9	5,816.8	1,529.2	103,058.3	39,316.0	142,374.3
LCR	13,280.5	8,795.4	8,145.5	2,554.5	6,062.8	15,243.5	17,396.8	7,226.4	21,189.9	1,860.9	-	N/A	N/A	N/A
CIL	7,044.0	5,072.0	5,489.0	8,708.0	4,417.0	6,731.0	4,628.0	4,187.0	4,309.0	5,322.0	-	N/A	N/A	N/A
ZIA	7,042.0	5,072.0	5,400.0	8,517.0	4,417.0	6,440.0	4,628.0	3,981.0	4,309.0	5,322.0	-	N/A	N/A	N/A
Import	120.1	0.0	420.3	0.0	1,658.2	2,738.2	398.8	0.0	1,732.0	0.0	-	1,900.0	0.0	1,529.2
CEL	3,718.0	3,088.0	5,044.0	8,034.0	5,255.0	7,453.0	5,745.0	5,197.0	3,361.0	2,132.0	-	N/A	N/A	N/A
Export	0.0	1,126.0	0.0	1,090.9	0.0	0.0	0.0	3,163.2	0.0	158.3	1,529.2	0.0	1,900.0	-
ACP ($/MW-Day)	$424.30	$424.30	$424.30	$424.30	$424.30	$424.30	$424.30	$384.10	$412.10	$384.10	$405.31-$424.30	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.

Fall 2026 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ	North	South	System
Initial PRMR	17,218.8	11,870.4	10,449.6	8,822.8	7,691.2	17,520.0	19,286.6	7,880.1	21,174.7	5,200.8	N/A	92,859.4	34,255.6	127,115.0
Final PRMR	18,012.8	12,418.2	10,931.4	9,230.0	8,046.1	18,328.3	20,177.0	8,393.1	22,552.9	5,539.0	N/A	97,143.8	36,485.0	133,628.8
Offer Submitted (Including FRAP)	19,290.8	14,299.1	12,531.4	9,984.5	7,153.6	15,241.1	20,491.1	11,634.5	21,268.3	5,528.8	1,527.1	100,225.7	38,724.6	138,950.3
FRAP	4,201.3	7,027.2	343.6	445.7	0.0	1,095.3	1,246.9	403.2	0.0	1,367.1	34.1	14,392.5	1,771.9	16,164.4
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,841.9	6,748.2	11,775.2	7,843.7	6,937.7	9,526.1	18,027.5	9,845.0	16,494.1	3,833.8	1,084.4	75,599.5	30,358.1	105,957.6
Non-SS Offer Cleared	700.5	426.7	314.3	1,621.7	179.5	3,810.7	241.1	493.7	3,195.2	180.8	342.6	7,530.9	3,975.9	11,506.8
Committed (Offer Cleared + FRAP)	18,743.7	14,202.1	12,433.1	9,911.1	7,117.2	14,432.1	19,515.5	10,741.9	19,689.3	5,381.7	1,461.1	97,522.9	36,105.9	133,628.8
LCR	12,057.3	6,520.8	4,424.1	3,397.9	5,160.5	13,479.1	16,133.1	5,090.4	19,222.5	2,018.4	-	N/A	N/A	N/A
CIL	7,297.0	6,050.0	9,283.0	6,673.0	4,762.0	7,301.0	5,193.0	6,336.0	4,761.0	4,379.0	-	N/A	N/A	N/A
ZIA	7,245.0	6,050.0	9,191.0	6,491.0	4,762.0	7,012.0	5,193.0	6,170.0	4,761.0	4,379.0	-	N/A	N/A	N/A
Import	0.0	0.0	0.0	0.0	928.9	3,896.2	661.5	0.0	2,863.6	157.3	-	0.0	379.1	1,461.1
CEL	4,147.0	5,034.0	5,652.0	6,429.0	3,701.0	5,172.0	5,305.0	3,781.0	3,970.0	2,459.0	-	N/A	N/A	N/A
Export	730.9	1,783.9	1,501.7	681.1	0.0	0.0	0.0	2,348.8	0.0	0.0	1,461.1	379.1	0.0	-
ACP ($/MW-Day)	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	$33.92	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.

Winter 2026/27 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ	North	South	System
Initial PRMR	18,112.7	11,417.0	10,727.8	8,550.7	8,155.2	18,198.5	15,627.5	8,783.0	22,413.9	5,489.4	N/A	90,789.4	36,686.3	127,475.7
Final PRMR	18,285.9	11,526.7	10,831.0	8,632.3	8,233.4	18,372.6	15,776.8	9,653.8	24,636.2	6,033.8	N/A	91,658.7	40,323.8	131,982.5
Offer Submitted (Including FRAP)	18,976.4	13,305.7	12,736.1	8,210.2	6,246.9	14,617.0	19,647.2	10,982.4	22,518.4	5,730.2	1,766.8	95,177.6	39,559.7	134,737.3
FRAP	4,741.7	6,654.8	334.9	424.6	0.0	1,126.1	1,168.6	458.8	0.0	1,681.4	35.9	14,484.7	2,142.1	16,626.8
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,674.5	6,243.9	12,146.0	6,735.5	6,153.3	7,898.8	16,240.9	10,326.7	20,995.4	3,998.1	1,360.4	70,239.9	35,533.6	105,773.5
Non-SS Offer Cleared	515.2	259.5	255.2	979.5	90.2	5,119.3	414.7	196.9	1,360.8	50.7	340.0	7,874.3	1,707.7	9,582.0
Committed (Offer Cleared + FRAP)	18,931.4	13,158.2	12,736.1	8,139.6	6,243.5	14,144.2	17,824.2	10,982.4	22,356.2	5,730.2	1,736.3	92,598.9	39,383.4	131,982.3
LCR	13,639.8	7,123.9	5,013.8	3,090.6	1,890.3	11,080.7	14,688.8	8,021.3	21,311.9	3,756.4	-	N/A	N/A	N/A
CIL	5,135.0	5,379.0	9,724.0	5,682.0	6,379.0	8,499.0	4,123.0	3,544.0	3,690.0	3,154.0	-	N/A	N/A	N/A
ZIA	4,533.0	5,294.0	9,620.0	5,493.0	6,379.0	8,208.0	4,123.0	3,366.0	3,690.0	3,154.0	-	N/A	N/A	N/A
Import	0.0	0.0	0.0	492.7	1,989.9	4,228.4	0.0	0.0	2,280.0	303.6	-	0.0	940.4	1,736.3
CEL	2,385.0	3,860.0	9,181.0	4,535.0	6,786.0	3,087.0	5,546.0	4,431.0	2,096.0	1,602.0	-	N/A	N/A	N/A
Export	645.5	1,631.5	1,905.1	0.0	0.0	0.0	2,047.4	1,328.6	0.0	0.0	1,736.3	940.2	0.0	-
ACP ($/MW-Day)	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	$35.97	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.

Spring 2027 PRA Results by Zone

	Z1	Z2	Z3	Z4	Z5	Z6	Z7	Z8	Z9	Z10	ERZ	North	South	System
Initial PRMR	17,840.4	12,483.5	10,640.6	7,773.7	7,828.4	17,981.9	19,625.5	8,074.8	22,644.1	5,431.1	N/A	94,174.0	36,150.0	130,324.0
Final PRMR	18,230.6	12,756.1	10,873.3	7,943.3	7,999.5	18,375.1	20,054.3	8,719.1	24,451.4	5,864.4	N/A	96,232.2	39,034.9	135,267.1
Offer Submitted (Including FRAP)	18,619.7	15,445.5	11,520.6	10,895.8	7,288.4	16,078.3	20,721.0	12,186.6	21,295.8	6,216.2	1,420.9	101,683.7	40,005.1	141,688.8
FRAP	4,416.3	7,372.7	336.0	454.4	0.0	1,125.1	1,309.9	298.6	0.0	1,471.5	34.9	15,047.7	1,771.7	16,819.4
RBDC Opt-Out	-	-	-	-	-	-	-	-	-	-		0.0	0.0	0.0
Self Scheduled (SS)	13,460.0	7,952.9	10,781.3	8,595.3	6,995.9	9,691.5	18,445.6	9,727.2	18,812.3	4,333.1	945.7	76,680.8	33,060.0	109,740.8
Non-SS Offer Cleared	321.7	50.0	260.4	1,293.9	164.0	4,090.8	444.0	811.1	1,055.0	126.5	89.5	6,714.3	1,992.6	8,706.9
Committed (Offer Cleared + FRAP)	18,198.0	15,375.6	11,377.7	10,343.6	7,159.9	14,907.4	20,199.5	10,836.9	19,867.3	5,931.1	1,070.1	98,442.9	36,824.2	135,267.1
LCR	10,315.9	6,052.3	3,341.2	2,117.6	4,087.4	10,895.5	15,143.0	5,946.1	19,442.6	2,929.7	-	N/A	N/A	N/A
CIL	6,892.0	6,133.0	9,420.0	6,732.0	4,733.0	8,324.0	5,338.0	5,566.0	4,657.0	4,187.0	-	N/A	N/A	N/A
ZIA	6,690.0	6,133.0	9,311.0	6,533.0	4,733.0	7,999.0	5,338.0	5,374.0	4,657.0	4,187.0	-	N/A	N/A	N/A
Import	32.6	0.0	0.0	0.0	839.6	3,467.7	0.0	0.0	4,584.1	0.0	-	0.0	2,210.7	1,070.1
CEL	3,513.0	4,608.0	6,282.0	6,248.0	5,811.0	4,140.0	5,497.0	3,952.0	4,633.0	2,725.0	-	N/A	N/A	N/A
Export	0.0	2,619.5	504.4	2,400.3	0.0	0.0	145.2	2,117.8	0.0	66.7	1,070.1	2,210.7	0.0	-
ACP ($/MW-Day)	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	$7.61	N/A	N/A	N/A

Values displayed in MW SAC; ERZ: External Resource Zones. Final PRMR values provided at Zonal level given lack of RBDC Opt-Out.

Summer Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Summer 2023	Summer 2024	Summer 2025	Summer 2026	Summer 2023	Summer 2024	Summer 2025	Summer 2026
Generation	122,375.6	123,277.8	121,015.6	124,690.1	116,989.7	119,361.4	120,738.6	124,511.3
External Resources	4,514.6	4,430.4	3,505.9	4,490.6	4,072.5	4,309.8	3,505.9	4,490.6
Behind the Meter Generation	4,175.2	4,180.2	4,282.8	4,272.9	4,129.4	4,143.5	4,282.8	4,272.9
Demand Resources	8,303.5	8,618.3	9,004.4	9,099.5	7,694.6	8,067.5	9,004.4	9,099.5
Energy Efficiency	5.0	22.5	27.6	0.0	5.0	22.5	27.6	0.0
Total	**139,373.9**	**140,529.2**	**137,836.3**	**142,553.1**	**132,891.2**	**135,904.7**	**137,559.3**	**142,374.3**

ZRC: Zonal Resource Credit

Fall Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Fall 2023	Fall 2024	Fall 2025	Fall 2026	Fall 2023	Fall 2024	Fall 2025	Fall 2026
Generation	121,403.5	119,627.5	122,283.4	123,289.3	111,713.8	111,673.7	118,309.5	118,561.2
External Resources	4,095.4	4,366.8	2,833.5	3,846.2	3,979.6	3,990.2	2,763.6	3,780.2
Behind the Meter Generation	3,874.2	3,877.9	3,646.8	3,925.0	3,842.8	3,789.7	3,646.8	3,923.0
Demand Resources	7,004.2	6,824.2	7,983.7	7,889.8	6,254.4	5,915.6	7,767.8	7,364.4
Energy Efficiency	4.9	22.5	28.1	0.0	4.8	22.5	28.1	0.0
Total	**136,382.2**	**134,718.9**	**136,775.5**	**138,950.3**	**125,795.4**	**125,391.7**	**132,515.8**	**133,628.8**

ZRC: Zonal Resource Credit

Winter Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Winter 2023-2024	Winter 2024-2025	Winter 2025-2026	Winter 2027-2026	Winter 2023-2024	Winter 2024-2025	Winter 2025-2026	Winter 2026-2027
Generation	124,632.7	132,844.3	120,225.1	119,295.9	114,886.6	117,640.7	117,392.0	117,053.4
External Resources	3,937.1	3,973.0	2,808.7	3,941.5	3,334.6	3,313.3	2,793.7	3,911.0
Behind the Meter Generation	3,257.8	3,111.5	3,082.9	3,228.3	3,173.9	2,957.3	3,082.6	3,228.3
Demand Resources	7,648.2	7,818.6	8,112.3	8,271.6	6,702.4	6,774.9	7,698.3	7,789.6
Energy Efficiency	6.7	29.7	32.9	0.0	6.7	29.7	32.9	0.0
Total	**139,482.5**	**147,777.1**	**134,261.9**	**134,737.3**	**128,104.2**	**130,715.9**	**130,999.5**	**131,982.3**

ZRC: Zonal Resource Credit

Spring Supply Offered and Cleared Comparison Trend

	Offered (ZRC)				Cleared (ZRC)			
Planning Resource	Spring 2024	Spring 2025	Spring 2026	Spring 2027	Spring 2024	Spring 2025	Spring 2026	Spring 2027
Generation	119,254.7	121,303.8	120,780.6	125,637.7	110,195.8	113,091.4	115,724.7	120,373.9
External Resources	3,794.1	3,481.8	2,640.1	3,527.3	3,409.1	3,406.5	2,570.3	3,076.5
Behind the Meter Generation	4,096.4	4,201.6	4,133.5	4,263.8	4,058.9	4,180.5	4,133.5	4,240.2
Demand Resources	7,287.7	7,602.9	8,475.9	8,260.0	6,720.0	7,087.2	8,240.5	7,576.5
Energy Efficiency	5.3	25.0	30.5	0.0	5.3	25.0	30.5	0.0
Total	**134,438.2**	**136,615.1**	**136,060.6**	**141,688.8**	**124,389.1**	**127,790.6**	**130,699.5**	**135,267.1**

ZRC: Zonal Resource Credit

2026 PRA pricing compared with Independent Market Monitor (IMM) Conduct Threshold and Cost of New Entry (CONE)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs	System CONE (Seasonal)	North/Central CONE (Seasonal)	South CONE (Seasonal)
Summer 2026	$424.30							$384.10	$412.10	$384.10	$405.31-$424.30	$1,422.37	$1,453.99	$1,348.59
Fall 2026	$33.92											$1,422.37	$1,453.99	$1,348.59
Winter 2026-27	$35.97											$1,422.37	$1,453.99	$1,348.59
Spring 2027	$7.61											$1,422.37	$1,453.99	$1,348.59
Cost of New Entry (Annual)	$134,160	$131,310	$127,330	$132,380	$142,970	$130,710	$137,510	$125,070	$123,890	$123,250	$142,970			
IMM Conduct Threshold*	$36.76	$35.98	$34.88	$36.27	$39.17	$35.81	$37.67	$34.27	$33.94	$33.77	-			

- Zonal Resource Credit (ZRC) offers that impact pricing should generally stay below the IMM Conduct Threshold and applies to all seasons.

Zonal Auction Clearing Prices (ACP) shown in $/MW-day. ERZ: External Resource Zones.

Historical Summer Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
2015-2016		$3.48		$150.00		$3.48		$3.29		N/A	N/A
2016-2017	$19.72			$72.00				$2.99			N/A
2017-2018					$1.50						N/A
2018-2019	$1.00				$10.00						N/A
2019-2020				$2.99			$24.30	$2.99			
2020-2021				$5.00			$257.53	$4.75	$6.88	$4.75	$4.89-$5.00
2021-2022				$5.00				$0.01			$2.78-$5.00
2022-2023				$236.66				$2.88			$2.88-236.66
Summer 2023					$10.00						
Summer 2024					$30.00						
Summer 2025					$666.50						
Summer 2026				$424.30				$384.10	$412.10	$384.10	$405.31-$424.30

ERZ: External Resource Zones.

Fall Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Fall 2023	$15.00								$59.21	$15.00	
Fall 2024	$15.00				$719.81	$15.00					
Fall 2025	$91.60							$74.09			$83.24-$91.60
Fall 2026	$33.92										

ERZ: External Resource Zones.

Winter Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Winter 2023-24	$2.00								$18.88	$2.00	
Winter 2024-25	$0.75										
Winter 2025-26	$33.20										
Winter 2026-27	$35.97										

ERZ: External Resource Zones.

Spring Auction Clearing Price Comparison ($/MW-Day)

PY	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	ERZs
Spring 2024	$10.00										
Spring 2025	$34.10				$719.81	$34.10					
Spring 2026	$69.88										
Spring 2027	$7.61										

ERZ: External Resource Zones.

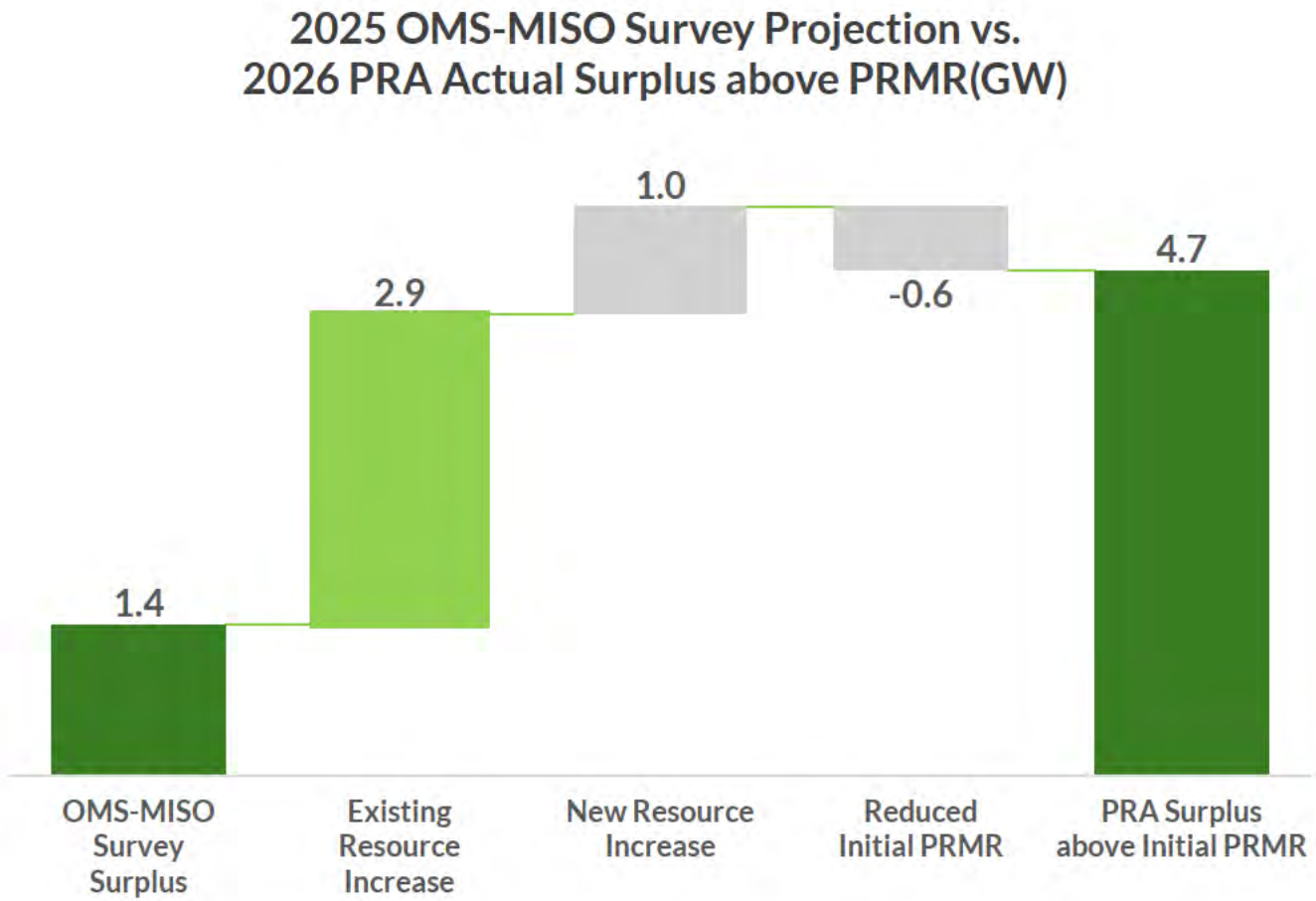
Offered Capacity, Final PRMR, Imports & Exports (MW)



	Subregion	External Offers	Total Offers	Final PRMR	Imports	Exports
Summer	North/Central	1,219	103,058	104,959	1,900	-
	South	310	39,495	37,416	-	1,900
Fall	North/Central	1,234	100,226	97,144	-	379
	South	293	38,725	36,485	379	-
Winter	North/Central	1,422	95,178	91,659	-	940
	South	315	39,560	40,234	940	-
Spring	North/Central	881	101,684	96,233	-	2,211
	South	189	40,005	39,035	2,211	-

PRMR: Planning Reserve Margin Requirement. Offers includes Fixed Resource Adequacy Plan (FRAP), Self-scheduled and price sensitive offers.

The surplus capacity, with reference to PRMR target, offered into the 2026 auction was within the projections range included in the 2025 OMS-MISO Survey



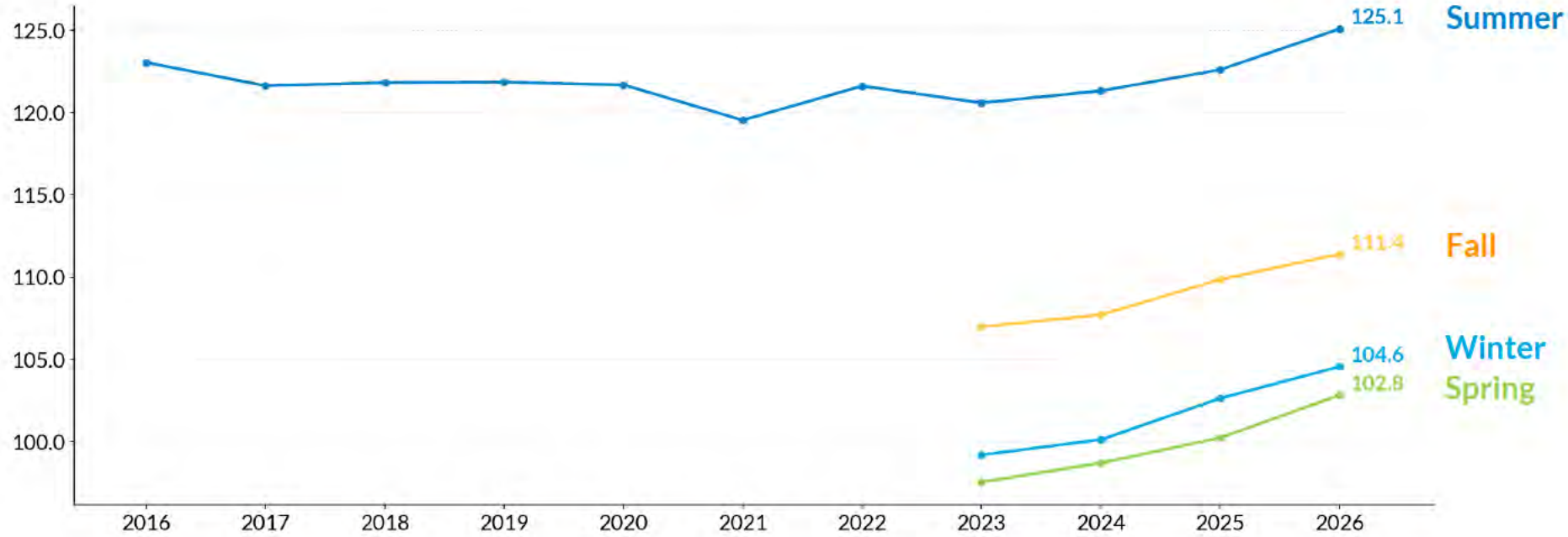
Summer 2026 auction outcomes vs. 2025 OMS-MISO Survey projection for 2026

- Surplus capacity above PRMR target offered into the 2026 PRA for Summer 2026 was ~4.6GW which is within the range of 1.4 GW – 6.1 GW projections in the 2025 OMS-MISO Survey
- Incremental accreditation reductions in the auction were offset by incremental increases in new resource additions
- Notably, initial PRMR was lower (0.6 GW) than projected in the OMS-MISO Survey

PRA Shortfall/Surplus relative to Initial PRMR | PRMR: Planning Reserve Margin Requirement

Coincident Peak Forecast History

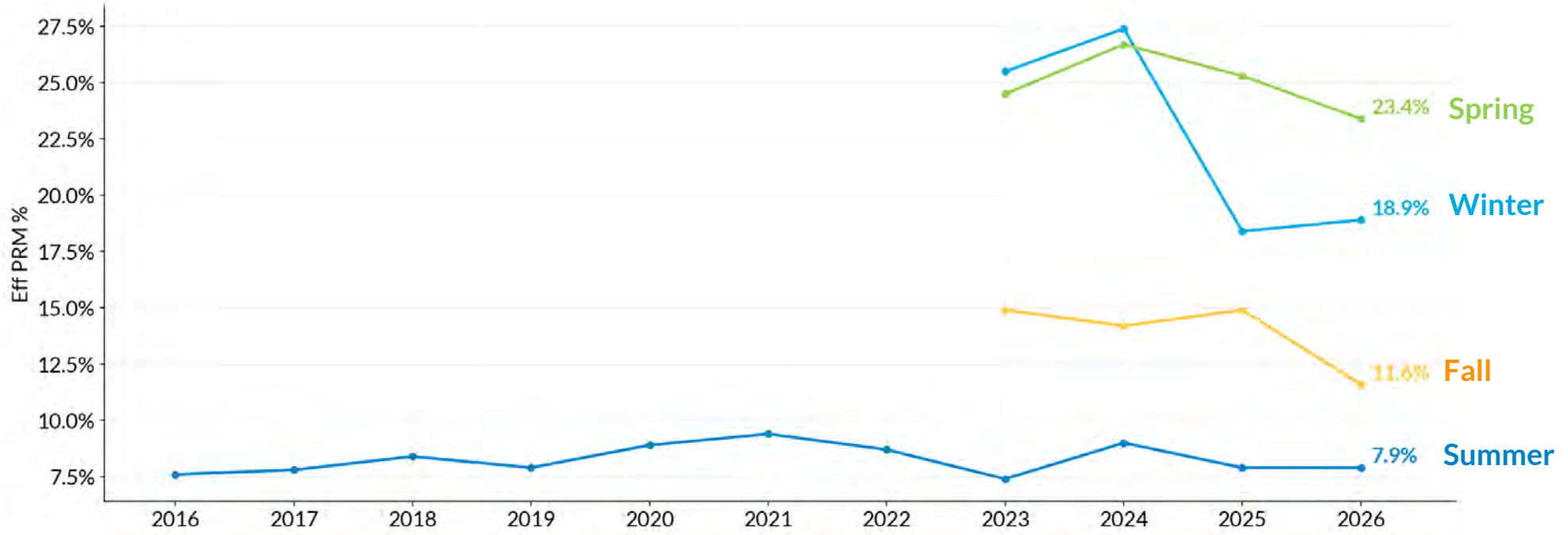
Year-over-year:
- Summer CPF (+2.5 GW)
- PRM (+/-0.0%)
- Final PRMR (+4.8 GW)



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer CPF	123,035.8	121,631.2	121,815.6	121,845.4	121,679.8	119,532.0	121,608.5	120,586.8	121,314.1	122,596.6	125,080.2
Fall CPF								106,973.8	107,701.4	109,850.0	111,392.9
Winter CPF								99,188.0	100,114.6	102,624.0	104,556.9
Spring CPF								97,537.6	98,697.8	100,225.2	102,818.0

CPF: Coincident Peak Forecast

Planning Reserve Margin History

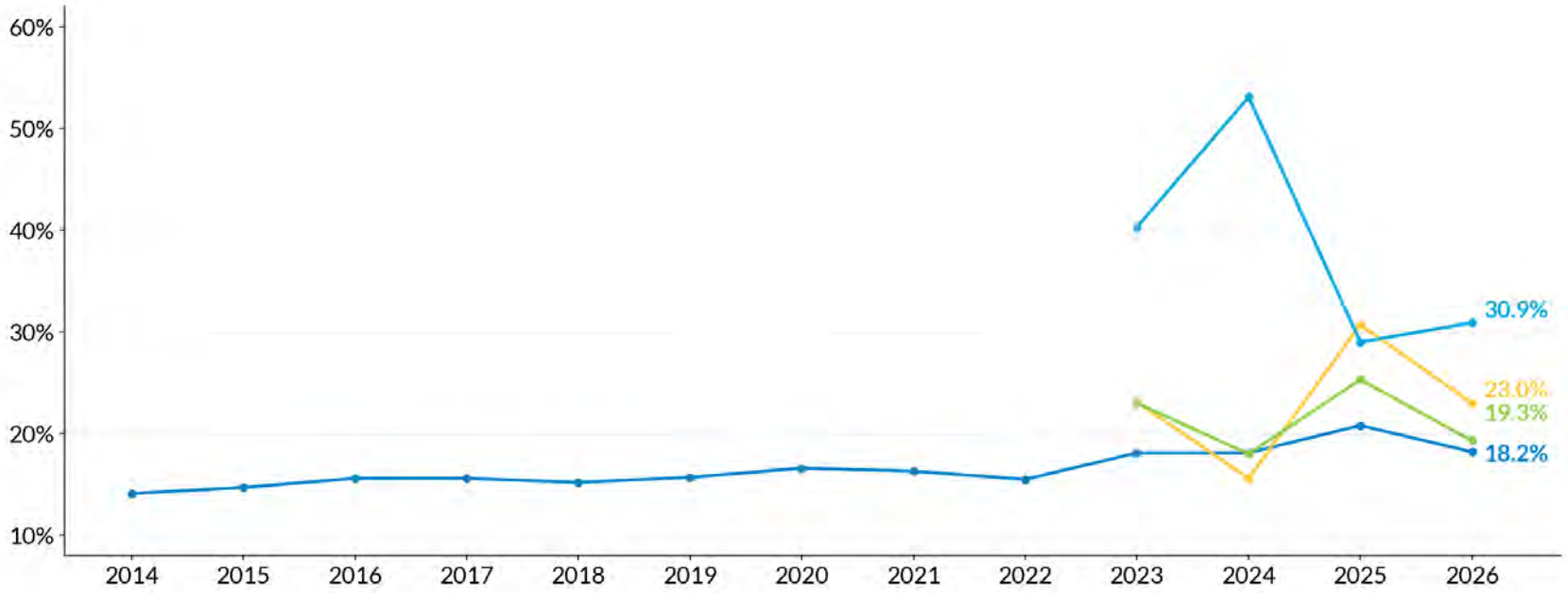


	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer PRM	7.6%	7.8%	8.4%	7.9%	8.9%	9.4%	8.7%	7.4%	9.0%	7.9%	7.9%
Fall PRM								14.9%	14.2%	14.9%	11.6%
Winter PRM								25.5%	27.4%	18.4%	18.9%
Spring PRM								24.5%	26.7%	25.3%	23.4%

PRM: Planning Reserve Margin

Wind Effective Load Carrying Capacity (%)

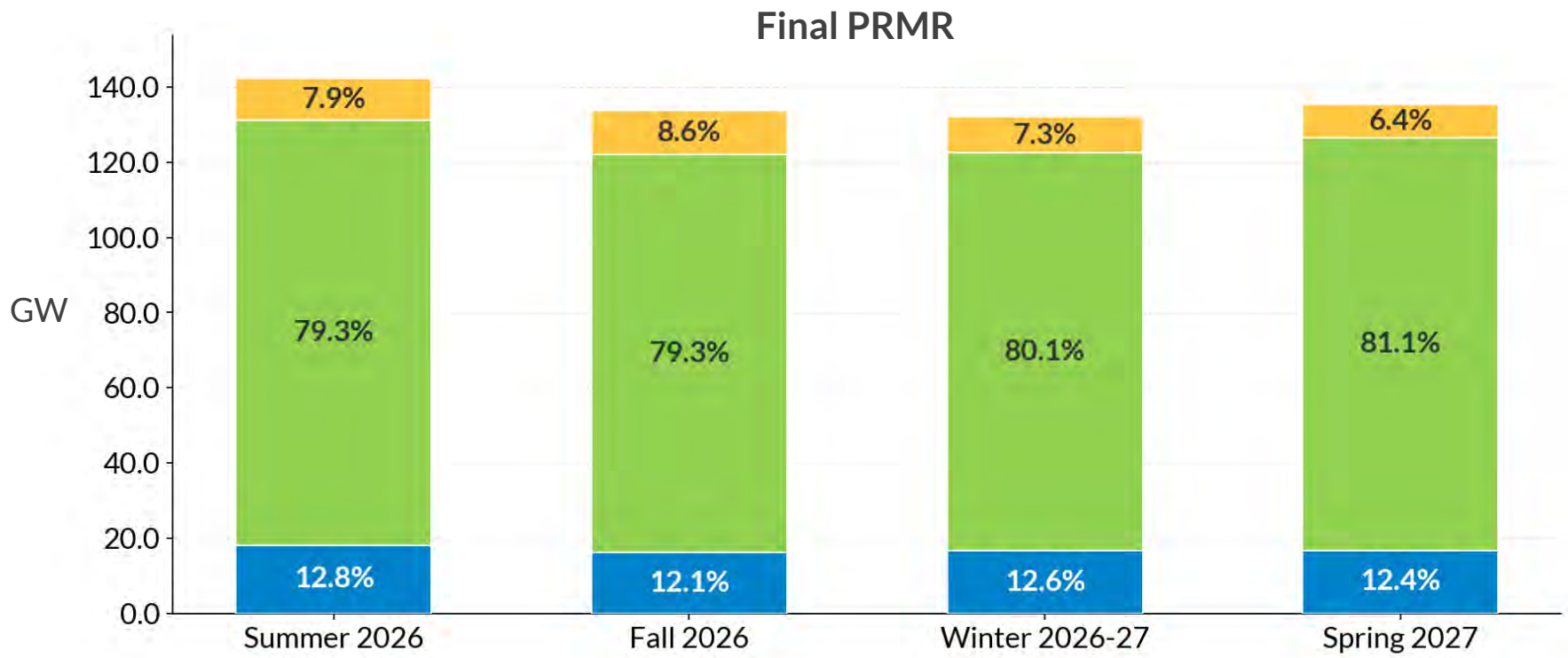
- No change to wind or solar accreditation methodology from previous years
- Methodology applied on a seasonal basis
- Wind ELCC and new solar capacity is established in the LOLE Study
- New solar class average
  - Summer, Fall, Spring: 50%; Winter: 5%



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Summer ELCC	14.1%	14.7%	15.6%	15.6%	15.2%	15.7%	16.6%	16.3%	15.5%	18.1%	18.1%	20.8%	18.2%
Fall ELCC										23.1%	15.6%	30.7%	23.0%
Winter ELCC										40.3%	53.1%	29.0%	30.9%
Spring ELCC										23.0%	18.0%	25.3%	19.3%

ELCC: Effective Load Carrying Capability LOLE: Loss of Load Expectation

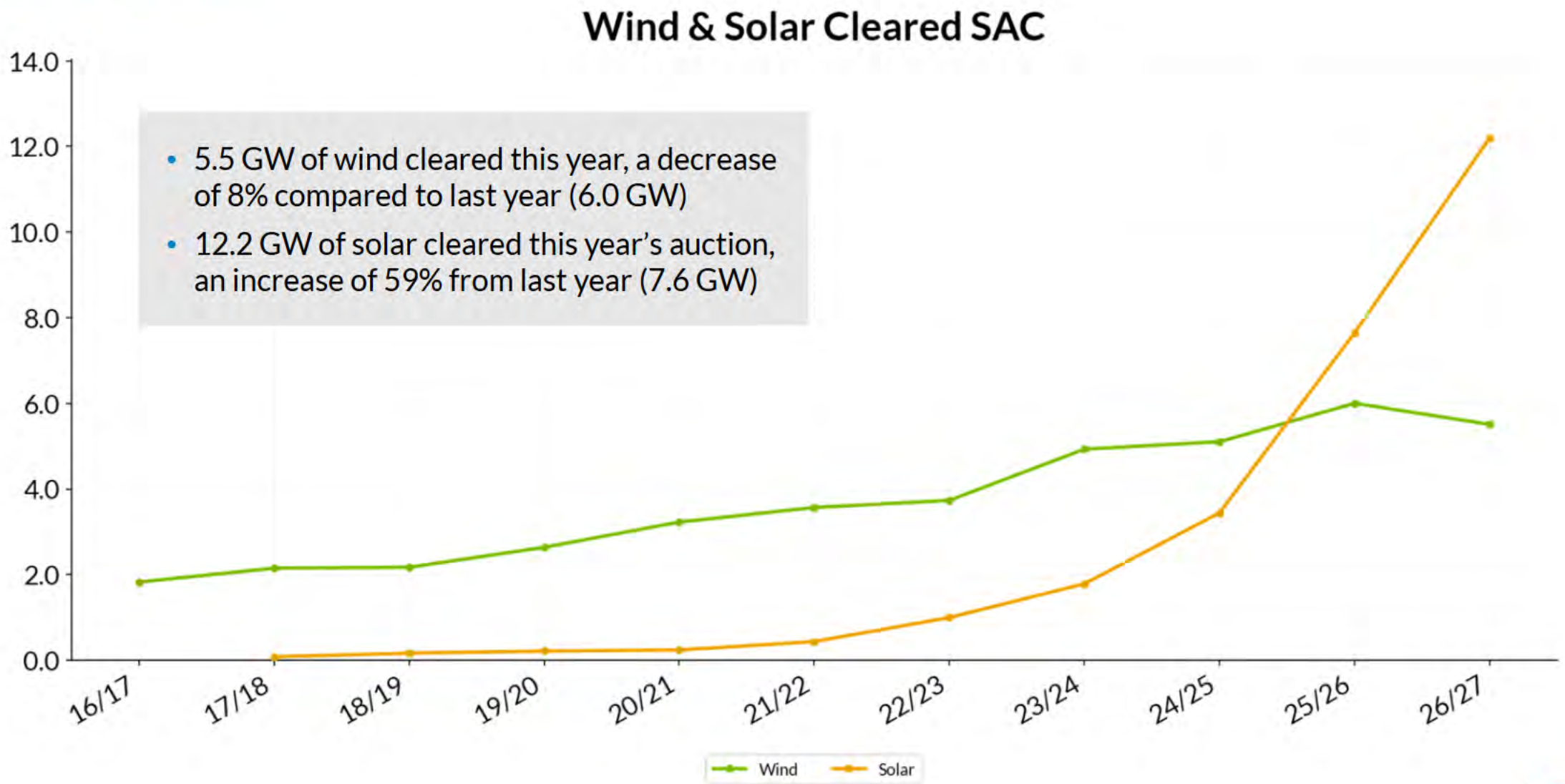
2026/27 Seasonal Resource Adequacy Requirements are fulfilled similarly across all four seasons



	Summer 2026	Fall 2026	Winter 2026-27	Spring 2027
Cleared Non-Self Scheduled	11,305.4	11,506.8	9,582.2	8,706.9
Self Scheduled	112,880.8	105,957.6	105,773.5	109,740.8
FRAP	18,188.1	16,164.4	16,626.8	16,819.4

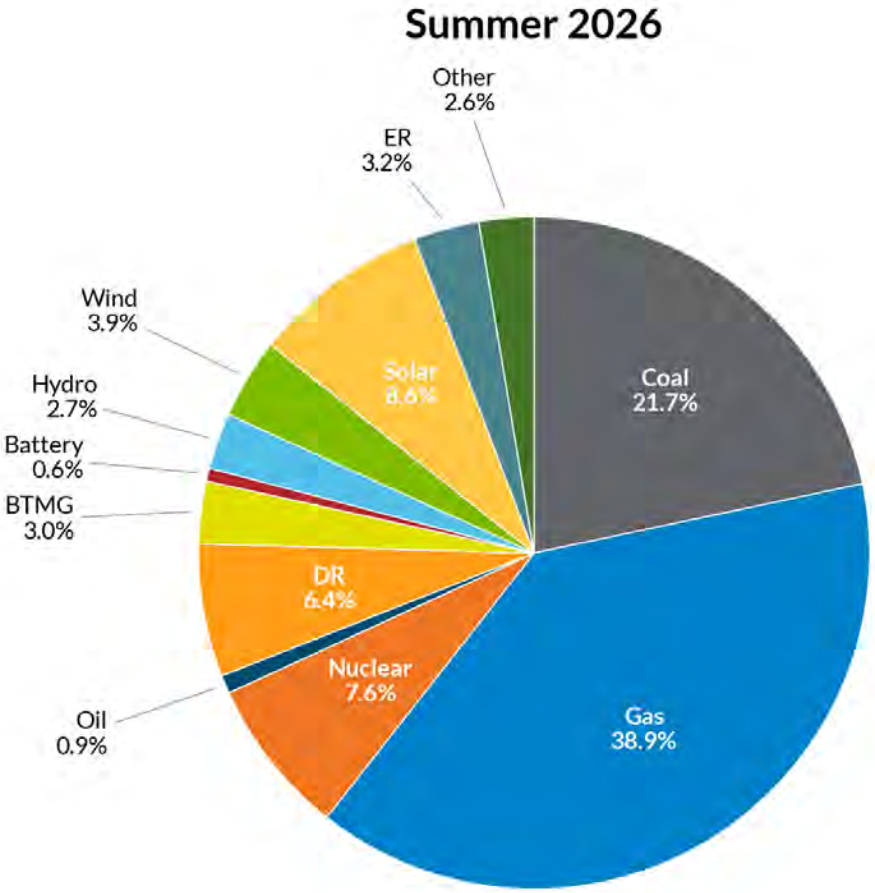
PRMR: Planning Reserve Margin Requirement FRAP: Fixed Resource Adequacy Plan

Although conventional generation still comprises most of the capacity, wind and solar continue to grow



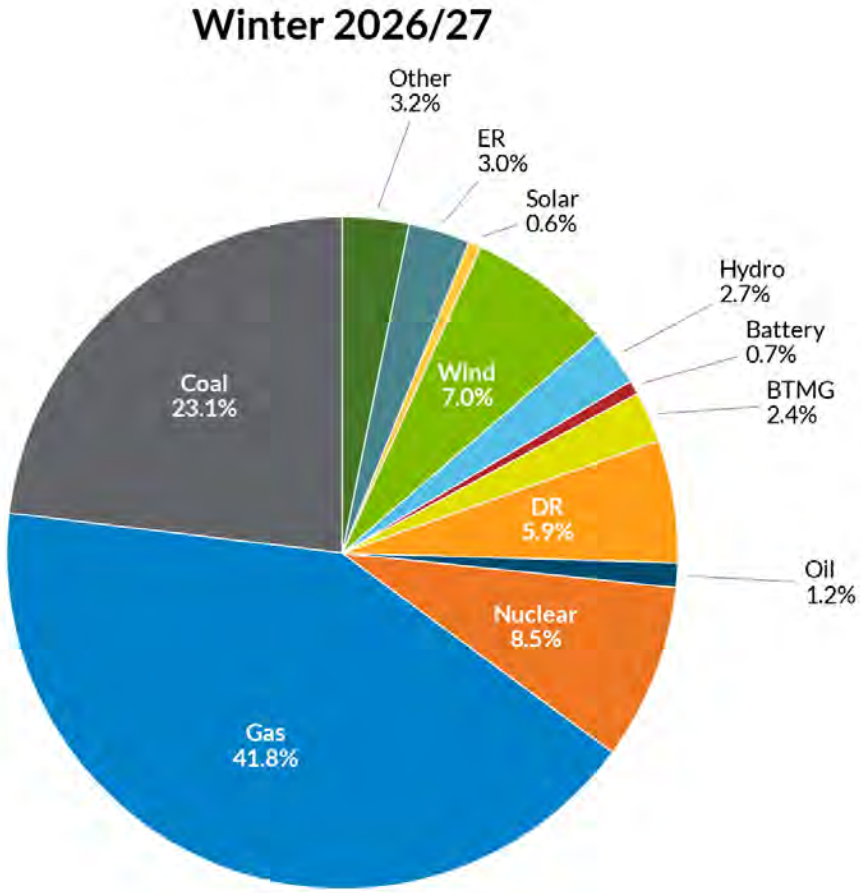
SAC: Seasonal Accredited Capacity

Winter Final PRMR is 6.6 GW (4.8%) lower than the summer with fewer solar resources to meet Final PRMR in the winter versus the summer



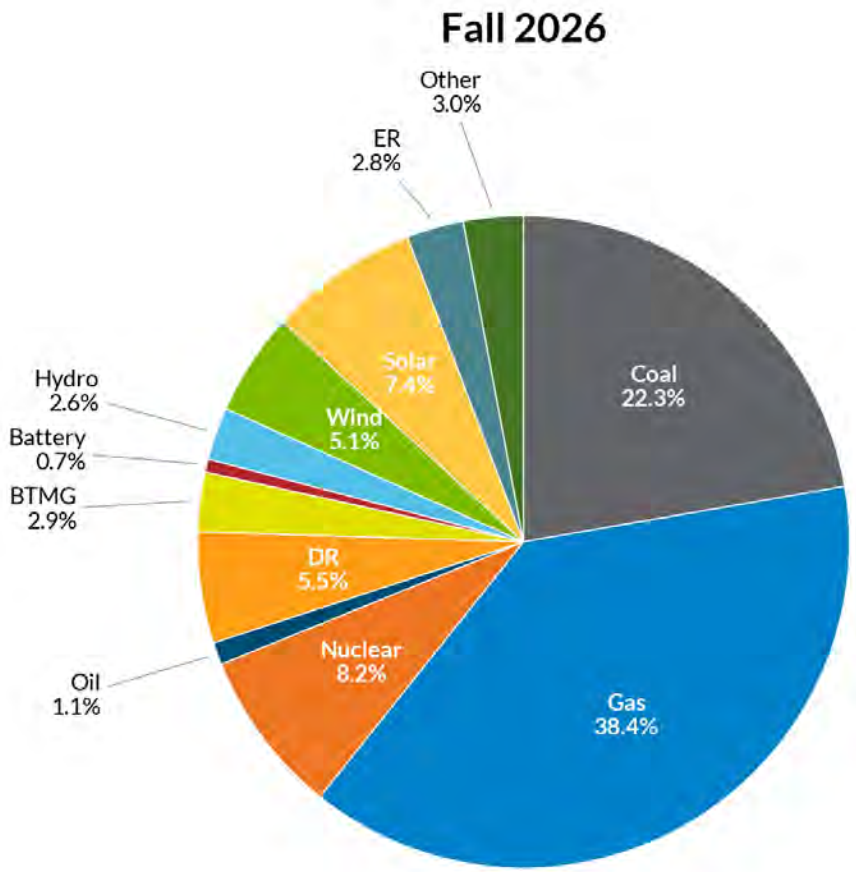
MISO-Wide

Cleared ZRC	Summer 2026	Winter 2026/27	Difference
Coal	30,884.7	30,492.7	392.0
Gas	55,391.4	55,158.7	232.7
Nuclear	10,782.8	11,167.2	-384.4
Oil	1,246.5	1,548.8	-302.3
DR	9,099.5	7,789.6	1,309.9
BTMG	4,272.9	3,228.3	1,044.6
Battery	893.8	870.4	23.4
Hydro	3,843.1	3,595.9	247.2
Wind	5,509.1	9,196.2	-3,687.1
Solar	12,198.3	801.9	11,396.4
ER	4,490.6	3,911.0	579.6
Other	3,761.6	4,221.8	-460.2
PRMR	**142,374.3**	**131,982.5**	**10,391.8**



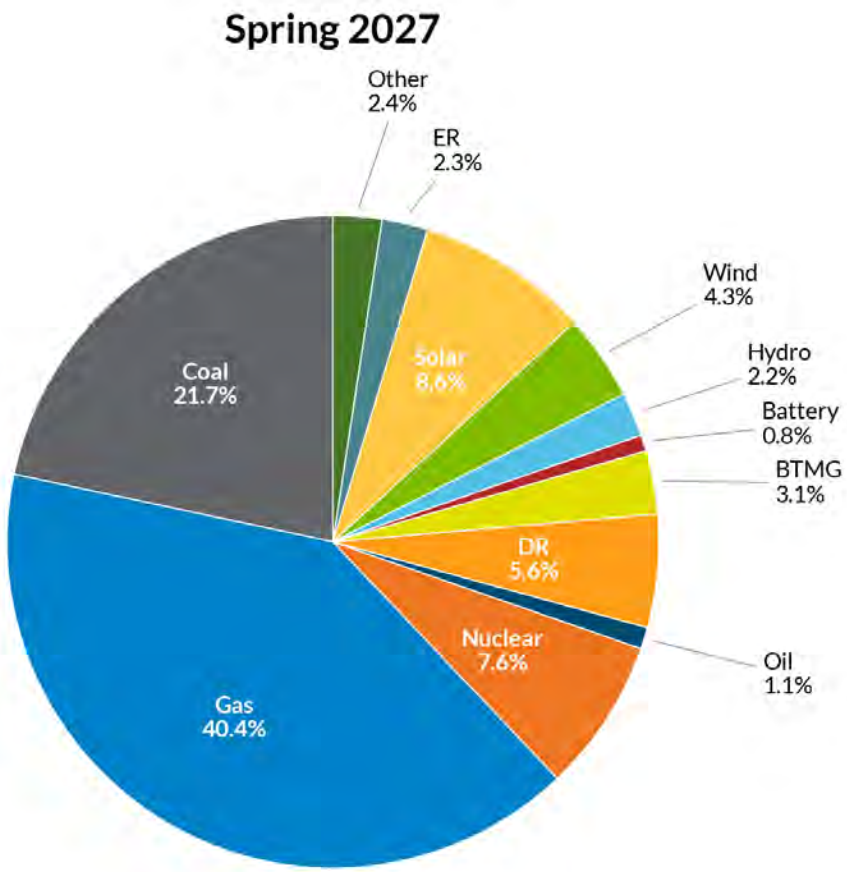
PRMR: Planning Reserve Margin Requirement

Fall 2026 and Spring 2027 - Cleared ZRCs and Final PRMR



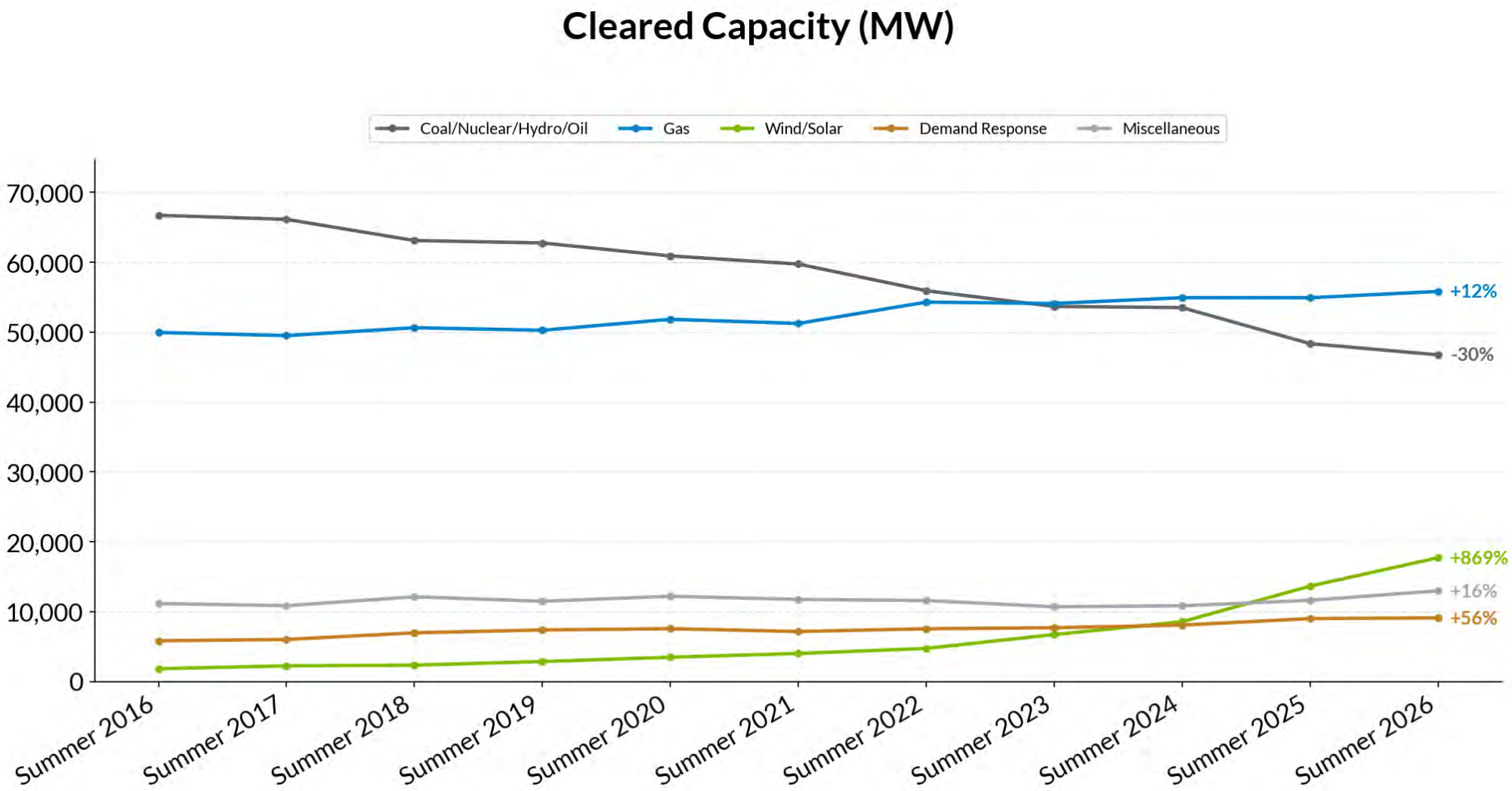
MISO-Wide

Cleared ZRC	Fall 2026	Spring 2027	Difference
Coal	29,777.7	29,324.7	453.0
Gas	51,370.6	54,663.4	-3,292.8
Nuclear	10,900.3	10,286.7	613.6
Oil	1,471.9	1,448.6	23.3
DR	7,364.4	7,576.5	-212.1
BTMG	3,923.0	4,240.2	-317.2
Battery	873.3	1,070.8	-197.5
Hydro	3,475.3	2,964.0	511.3
Wind	6,797.3	5,757.1	1,040.2
Solar	9,932.9	11,595.0	-1,662.1
ER	3,780.2	3,076.5	703.7
Other	3,961.9	3,263.6	698.3
PRMR	**133,628.8**	**135,267.1**	**-1,638.3**

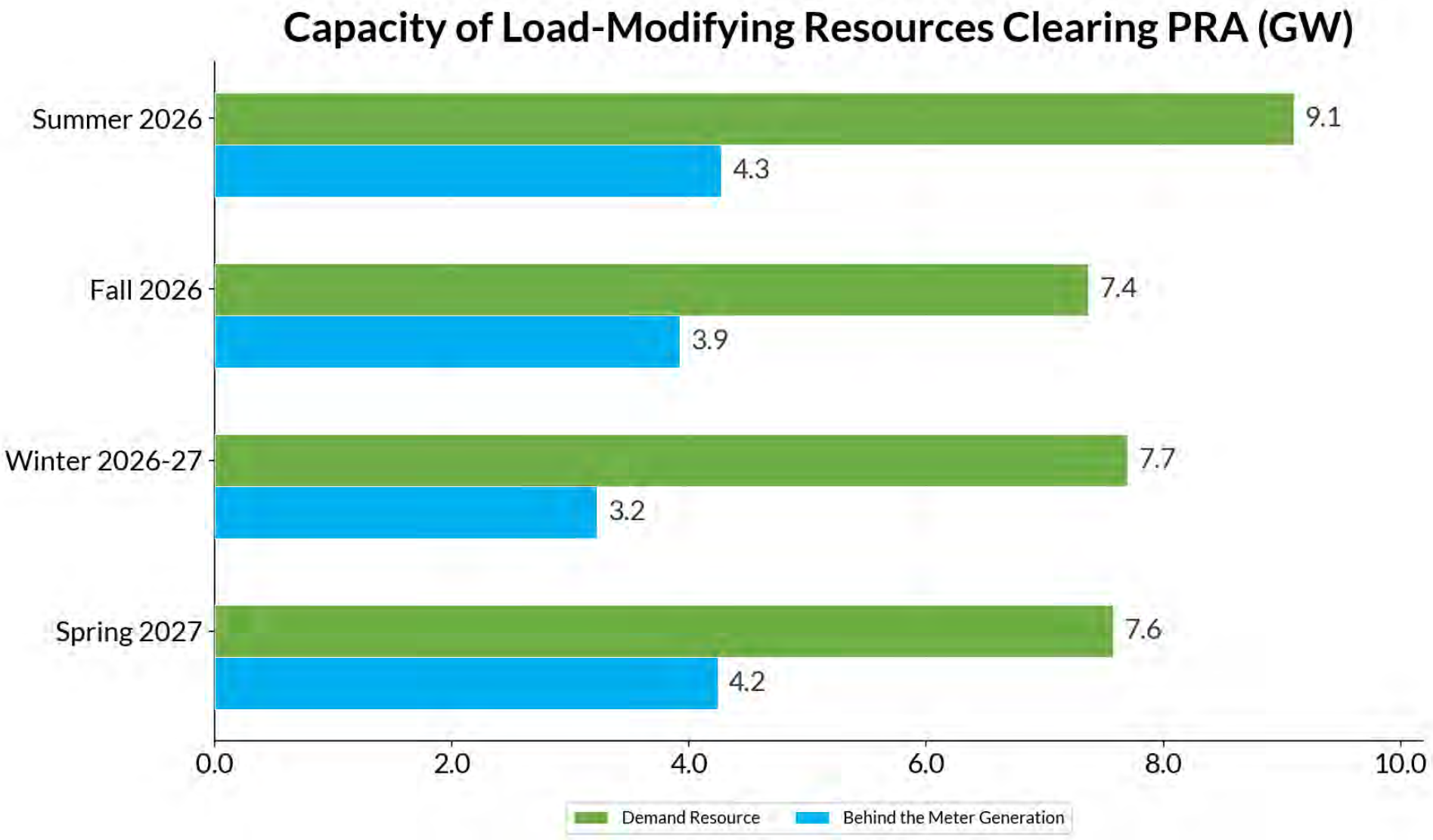


PRMR: Planning Reserve Margin Requirement ZRC: Zonal Resource Credit

The planning resource mix shows the continuation of a multi-year trend towards less coal/nuclear/hydro/oil and increased gas and non-conventional resources



2026/27 Seasonally Cleared Load Modifying Resources Comparison



PRA: Planning Resource Auction



Visit MISO's Help Center for more information
https://help.misoenergy.org/

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 186
2026 OMS-MISO Survey

2026 OMS-MISO Survey Results

June 4, 2026

Executive Summary

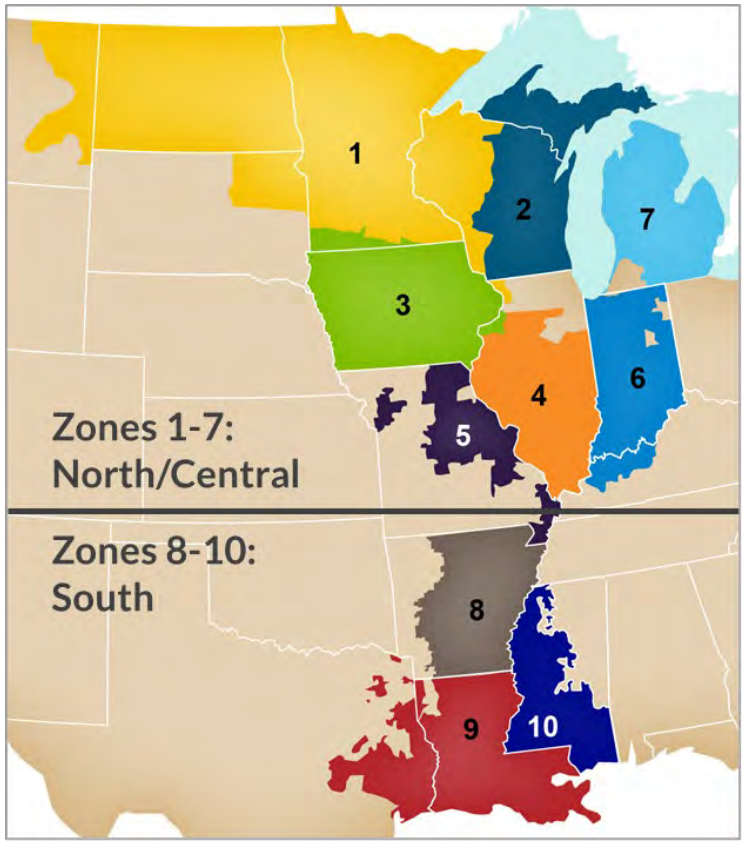
All references to capacity in this presentation indicate seasonal accredited capacity (SAC), unless noted otherwise.

The 2026 OMS-MISO Survey* results show an adaptive response to increasing demand through generation additions that sustain near-term resource adequacy

- The region is projected to maintain sufficient capacity to meet demand across the next five years, based upon current load forecasts and anticipated load growth.
- Load growth as submitted by LSEs continues to accelerate, with a CAGR projected between 3.1% and 5.1% over five years.
- To support rising demand, the region needs to maintain the increased pace of capacity additions; timely generation builds, Queue improvements and the Expedited Resource Adequacy Study (ERAS) will help meet this need.
- Seasonal reliability risk is shifting away from summer and toward winter as the resource mix evolves.
- The 2026 OMS-MISO Survey was completed with **99.5 %** participation from resource owners in MISO.

*The survey serves as a point-in-time analysis based on data collected April 2026. LSE – Load Serving Entity. CAGR – Compound Annual Growth Rate.

The OMS–MISO Survey provides a five-year view of resource adequacy, indicating if expected capacity meets planning reserve margins and yields a surplus or deficit



- Load Serving Entities (LSEs) are expected to have adequate resources to meet load reserve requirements in each zone.
- Various projected capacity scenarios and large load additions highlight increasing uncertainty and evolving risk.
- MISO zonal views are not included this year as the annual capacity import limit and capacity export limit study will provide value updates and be reported in the Loss of Load Expectation report in November.

Additional factors can impact projected deficits or surpluses observed in the survey

UPSIDE POSSIBILITIES

- Continued, collaborative effort of region to align timing of new generation and new load
- Improved accuracy and confidence in resource forecasting due to methodology enhancements recognizing all Interconnection pathways
- Ongoing queue reform efforts successfully reduce speculative projects and streamline resource integration processes
- Market reforms, including Reliability-Based Demand Curve and Direct Loss of Load (DLOL)-based accreditation updates, provide clearer and stronger investment and retirement signals
- Potential improvement in resource deployment timelines if supply-chain bottlenecks, labor shortages and permitting hurdles ease

DOWNSIDE RISKS

- Winter reliability risks intensify based on resource availability/performance, exacerbating seasonal reliability vulnerabilities
- Persistent supply-chain disruptions, labor constraints and permitting challenges delay new resource deployments
- Resource adequacy pressures continue from load growth driven by data centers, new industrial, and commercial development
- Continued backlog and uncertainty related to resources with signed Generator Interconnection Agreements (GIA)
  - *87 GW of signed* Generation Interconnection Agreements *(GIAs) not yet online*
  - *192 GW of active* Generation Interconnection Agreements *(GIAs) still under study*

*As reported on MISO s COD Tracker as of May 26, 2026.

Summer Seasonal Accreditation Values

Resource Category	2026 Survey	2025 Survey	
	Member Plans Projection	Historical Projection	Emerging Projection
Potential New Capacity (excludes ERAS projects)	○ 11.0 GW/yr average • Informed by member responses to Survey; represents 99% of footprint load • Fuel mix of new resources indicated by OMS-MISO Survey member responses	○ 3.5 GW/yr average • Driven by 2022-2024 actuals	○ 6.2 GW/yr average • Informed by member responses to Survey; 97% of footprint load • Fuel mix of new resources indicated by Survey responses
Special Callout Project Impact	ERAS Only ○ 4.0 GW/yr average • Commercial Operation Dates determined by member submittal	Replacement Impact* ○ 1.2 GW/yr average • 50% replacement & surplus queue adoption	Replacement Impact* ○ 2.4 GW/yr average • 100% replacement & surplus queue adoption
	• All Approved / Active ERAS projects as of April 15th are included in this projection	• Replacement impact highlighted; results in additional "new resources" to offset retirement impacts	
TOTALS	15.0 GW/yr	4.7 GW/yr	8.6 GW/yr
Committed Capacity	• No Changes	• Existing generation resources • External resources with firm contracts to MISO load	
Potentially Unavailable Resources	• No Changes	• Indicated as "Low Certainty" in survey by market participants	

New Term – Same Emerging Projection methodology as 2025 Survey

Committed Capacity: Resources committed to serving MISO s load. Potentially Unavailable Resources: May be available to serve MISO s load but may not have firm commitments.
*Replacement Impact for 2026 Survey is included in the Potential New Capacity category.

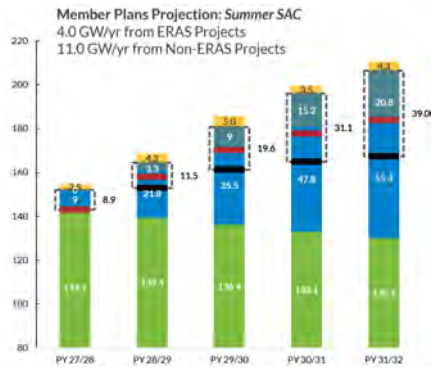
Winter Seasonal Accreditation Values

Resource Category	2026 Survey	2025 Survey	
	Member Plans Projection	Historical Projection	Emerging Projection
Potential New Capacity (excludes ERAS projects)	○ 8.0 GW/yr average • Informed by member responses to Survey; represents 99% of footprint load • Fuel mix of new resources indicated by OMS-MISO Survey member responses	○ 1.4 GW/yr average • Driven by 2022-2024 actuals	○ 4.1 GW/yr average • Informed by member responses to Survey; 97% of footprint load • Fuel mix of new resources indicated by Survey responses
Special Callout Project Impact	ERAS Only ○ 4.4 GW/yr average • Commercial Operation Dates determined by member submittal	Replacement Impact* ○ 1.0 GW/yr average • 50% replacement & surplus queue adoption	Replacement Impact* ○ 2.1 GW/yr average • 100% replacement & surplus queue adoption
	• All Approved / Active ERAS projects as of April 15th are included in this projection	• Replacement impact highlighted; results in additional "new resources" to offset retirement impacts	
TOTALS	12.4 GW/yr	2.4 GW/yr	6.2 GW/yr
Committed Capacity	• No Changes	• Existing generation resources • External resources with firm contracts to MISO load	
Potentially Unavailable Resources	• No Changes	• Indicated as "Low Certainty" in survey by market participants	

New Term – Same Emerging Projection methodology as 2025 Survey

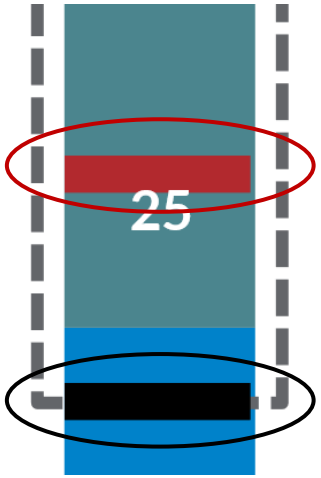
Committed Capacity: Resources committed to serving MISO s load. Potentially Unavailable Resources: May be available to serve MISO s load but may not have firm commitments.
*Replacement Impact for 2026 Survey is included in the Potential New Capacity category.

PRMR Forecasts: LSE Forecast vs Current Trajectory



LSE Forecast

- The black bars represent load forecasts submitted by MISO Load Serving Entities (LSE) in November 2025 with a PRM % added*
- Reflects annual snapshot
- Forecast aligns with the PY26/27 MECT forecast
  - MISO will use same data set to report load forecast for the 2026 NERC Long-Term Reliability Assessment

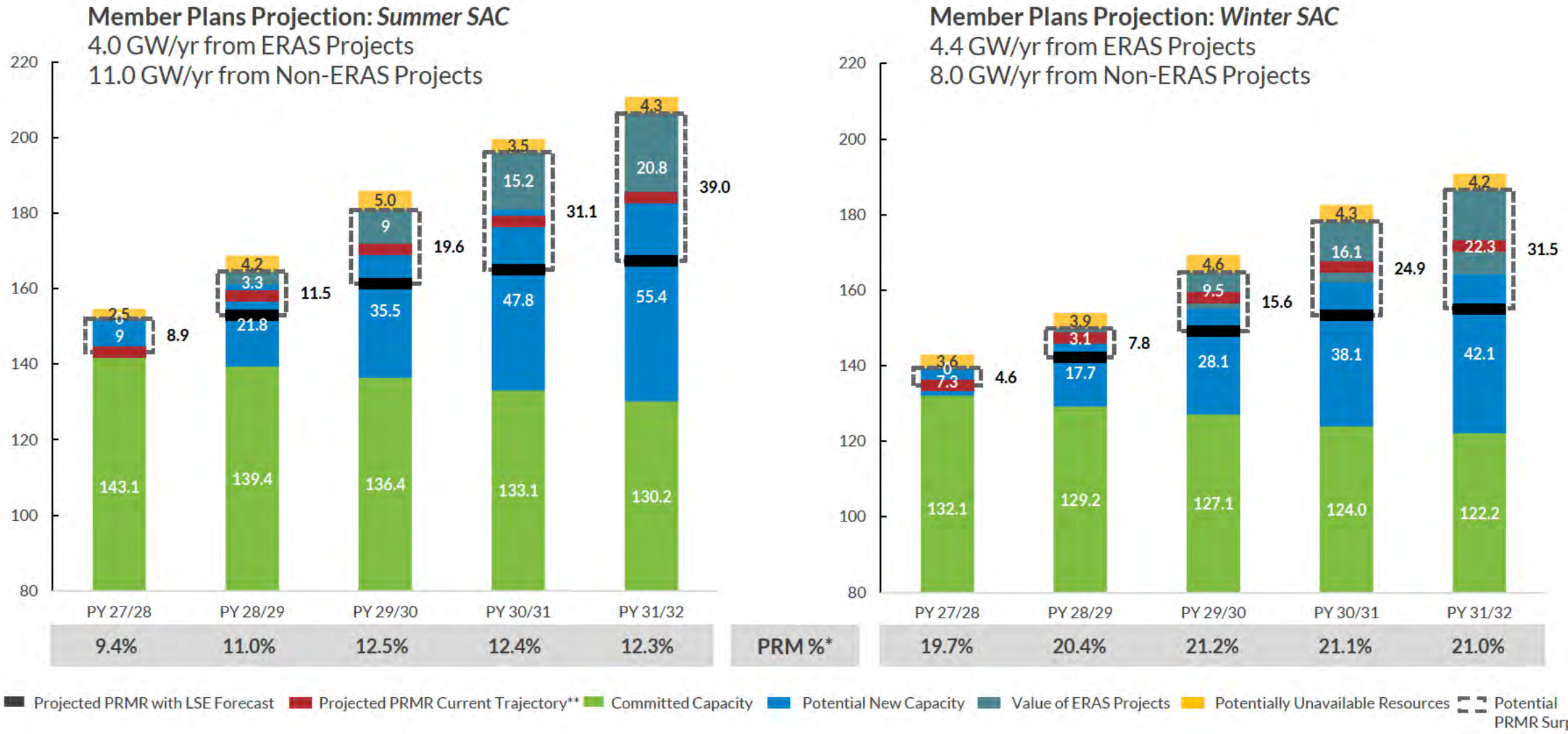


Current Trajectory

- The red bars are based on the forecasts represented in the LSE Forecast, plus any load additions approved through MTEP26 projects as of April 2026**
- Reflects fast pace of load growth consistent with MISO 2026 Long Term Load Forecast methodology***
- The PRM %s are kept consistent with those used for the LSE Forecast*

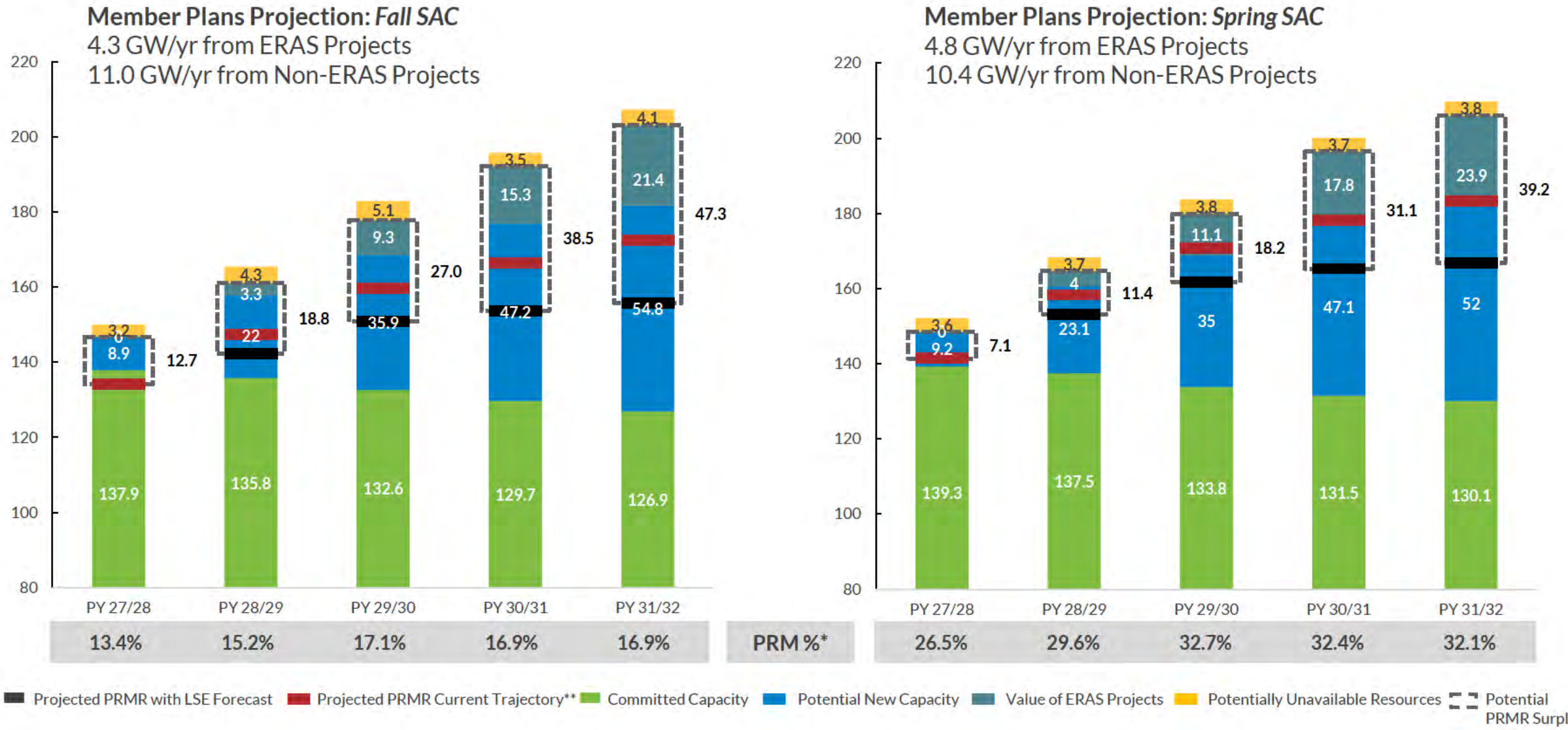
PRM – Planning Reserve Margin. PRMR – Planning Reserve Margin Requirement. *See Section D.3 from the 2026-27 LOLE Study Report for UCAP PRM % values.
**See the April 7, 2026, Expedited Project Review Technical Study Task Force Presentation, Slide 9 for description of Current Trajectory load representation.
***Current Trajectory is described in the MISO 2026 Long Term Load Forecast Whitepaper.

Status Quo Summer & Winter SAC
Comparison of Seasonal Forecasts



All projection values are averages over five years. *See Section D.3 from the 2026-27 LOLE Study Report for UCAP PRM % values. **Additional Load forecasts align with new information acquired since the 2026 Long Term Load Forecast Projections, as shown in April 7, 2026, Expedited Project Review Technical Study Task Force Presentation.

Status Quo Fall & Spring SAC
Comparison of Seasonal Forecasts



All projection values are averages over five years. *See Section D.3 from the 2026-27 LOLE Study Report for UCAP PRM % values. **Additional Load forecasts align with new information acquired since the 2026 Long Term Load Forecast Projections, as shown in April 7, 2026, Expedited Project Review Technical Study Task Force Presentation.

Accreditation reforms designed to better measure a resource's contribution to reliability include transitioning to Direct Loss of Load (DLOL) methodology, which is targeted for PY 2028/29 implementation

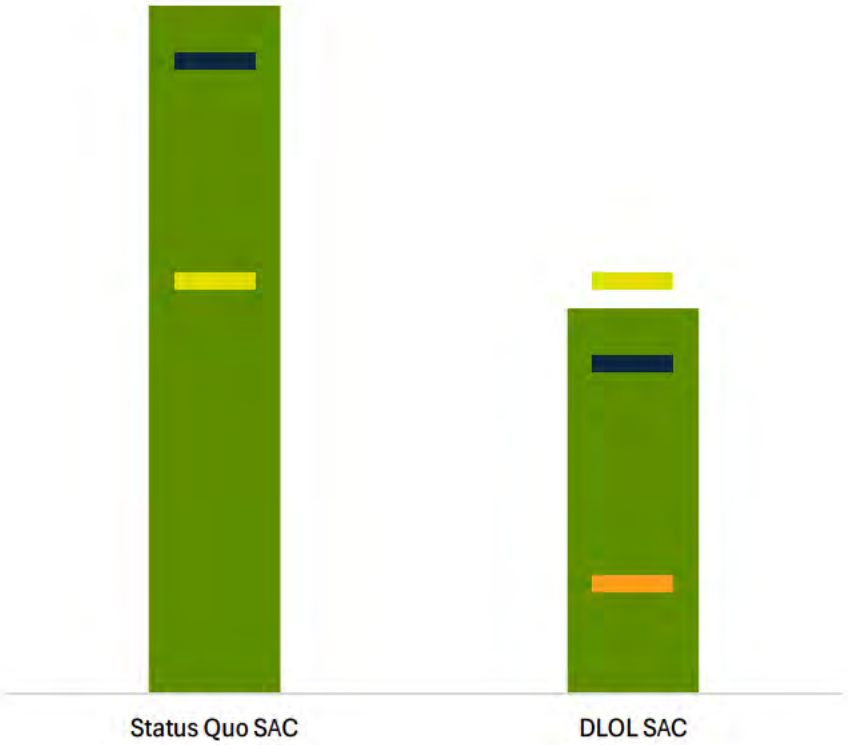
Viewing indicative DLOL results will help the MISO region prepare for Planning Year 2028/29 and beyond

- Increased reliance on wind, solar and storage, projected large-load additions and electrification, and frequent large-scale weather events are decoupling periods of risk from periods of high demand.
- These drivers are upending traditional methods for establishing reliability requirements and resource accreditation, which can overstate a resource's capacity value and understate risk during the highest risk periods.
- MISO's resource accreditation methodology* (Direct Loss of Load) will value a resource's contribution to reliability during the highest risk periods.

*See Resource Accreditation White Paper, published March 2024

High Level Description of Status Quo vs Direct Loss of Load

Comparing Accreditation from Status Quo & DLOL SAC



Peak Load Forecast

- Submitted annually by members

Critical Hours* Load Forecast

- Illustrative only, not collected

Planning Reserve Margin Requirement (PRMR) at

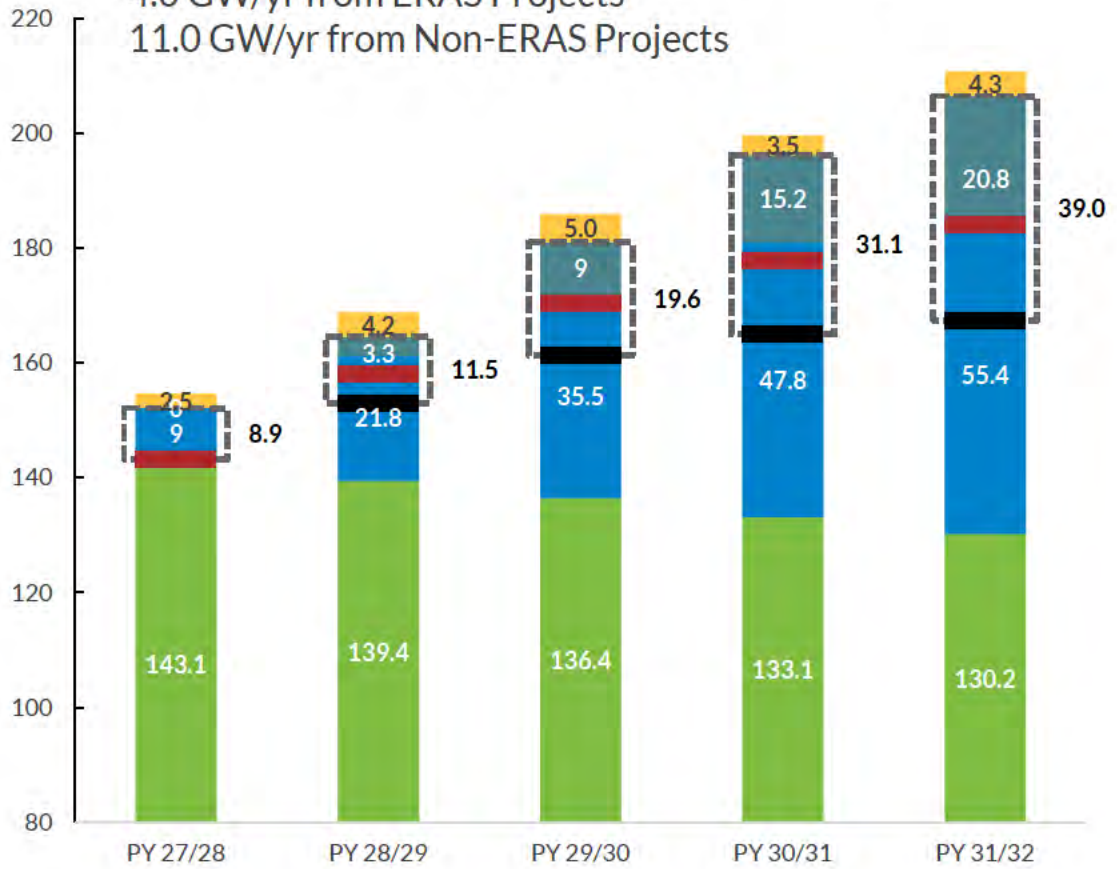
- Status Quo: Peak Load
- DLOL: Critical hours*

Value of Resources at the time of PRMR

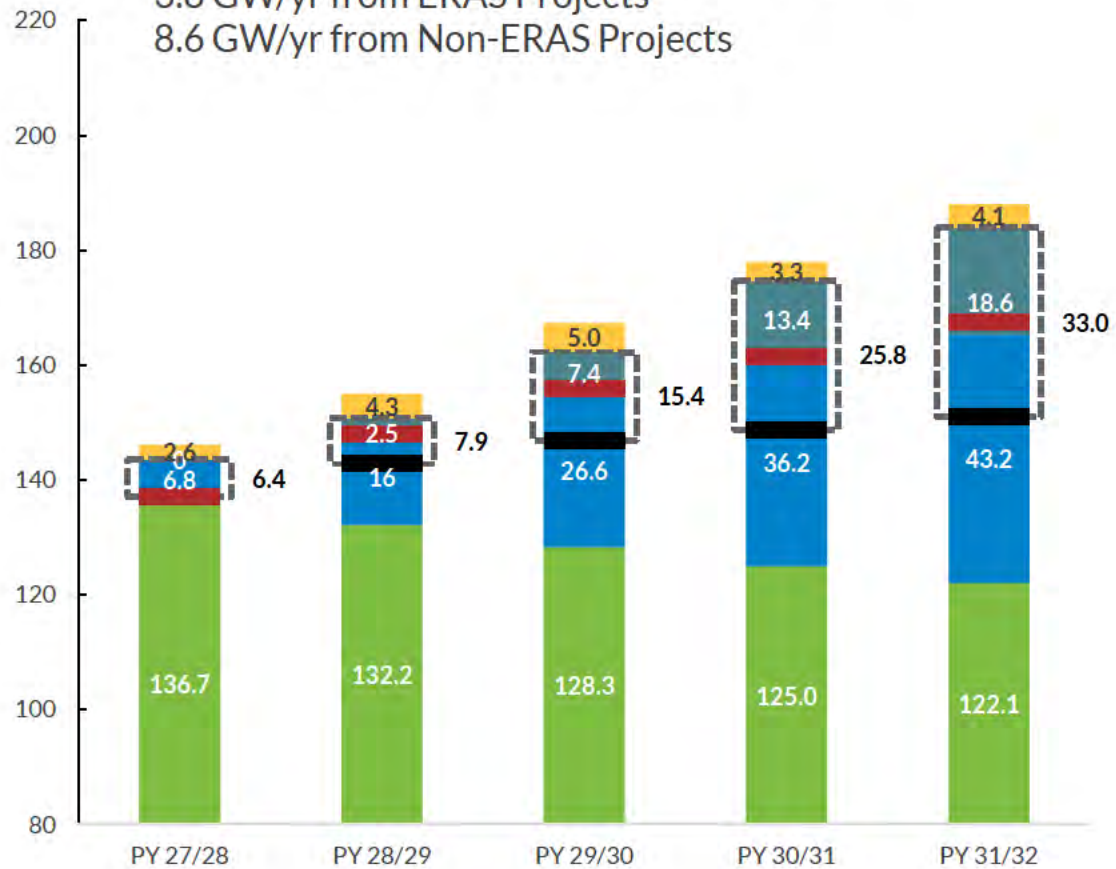
*Critical Hours represent the hours in a season where the highest risk of load loss is projected to occur, as opposed to the traditional Resource Adequacy assessment of covering the peak load hour. PRMR is a measurement of how much resource value is needed during those risk hours to retain an annual Loss of Load Expectation of 1 day in 10 years.

Status Quo Summer SAC & DLOL Summer SAC
Comparison of Member Plans Forecasts

Member Plans Projection: *Status Quo Summer SAC*
4.0 GW/yr from ERAS Projects
11.0 GW/yr from Non-ERAS Projects



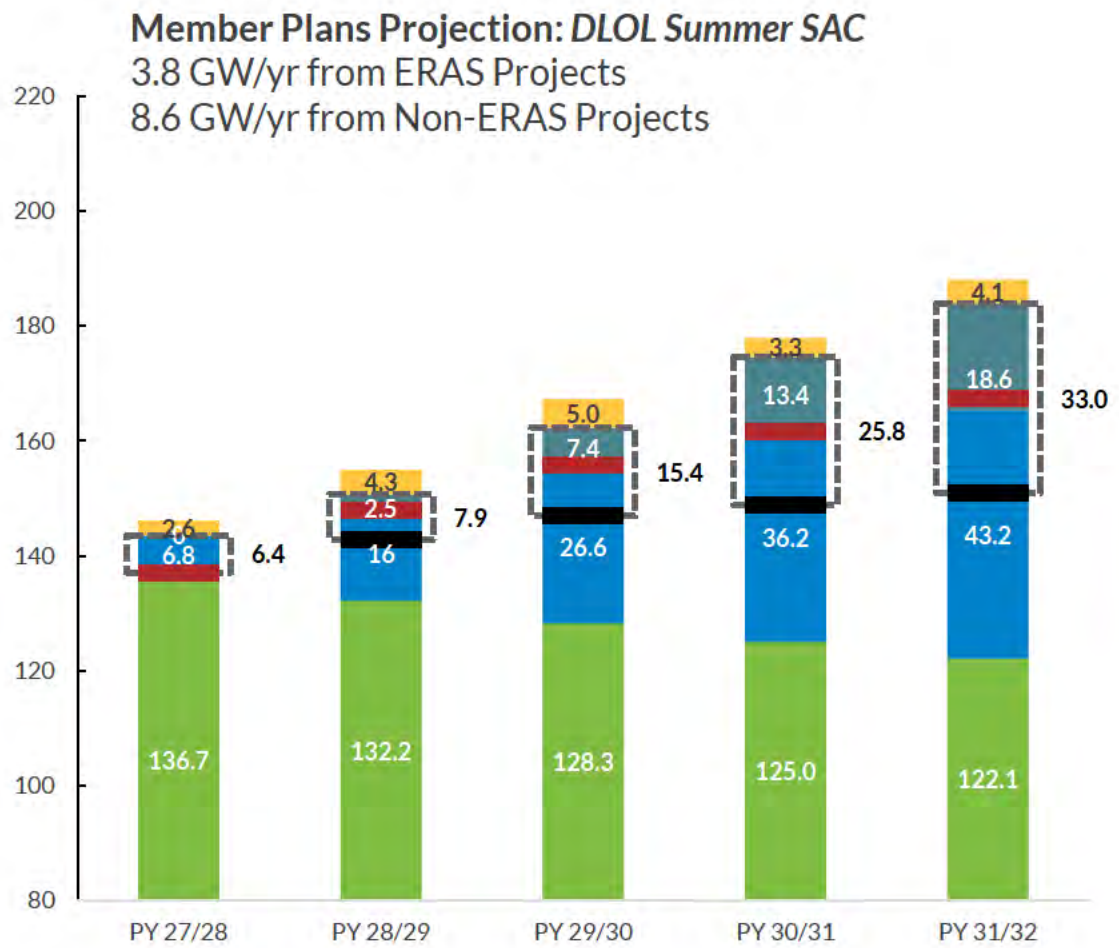
Member Plans Projection: *DLOL Summer SAC*
3.8 GW/yr from ERAS Projects
8.6 GW/yr from Non-ERAS Projects

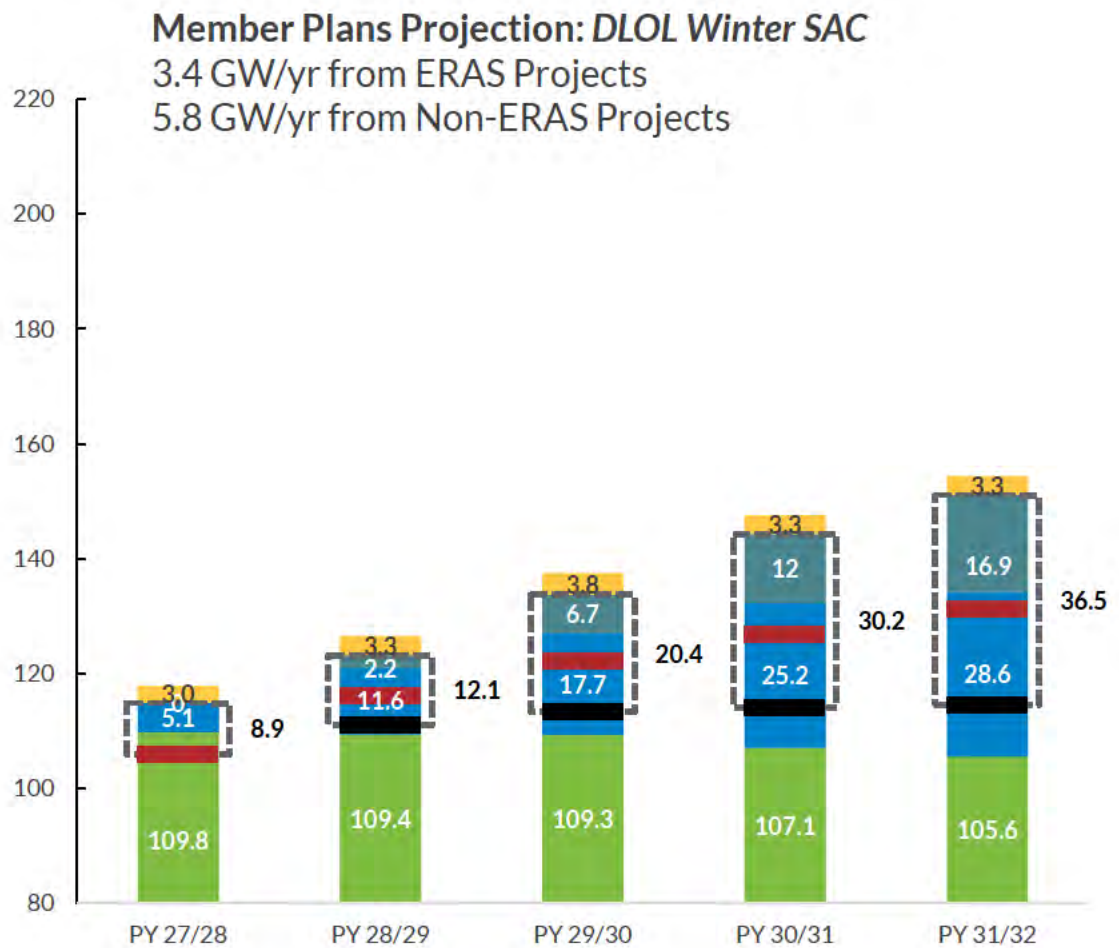


Projected PRMR with LSE Forecast | Projected PRMR Current Trajectory* | Committed Capacity | Potential New Capacity | Value of ERAS Projects | Potentially Unavailable Resources | Potential PRMR Surplus

The PRMR will change under the DLOL framework, reflecting the reliability requirements based on periods of highest risk (critical hours) and aligned with resource accreditation.
All projection values are averages over five years. *Additional Load forecasts align with new information acquired since the 2026 Long Term Load Forecast Projections, as shown in April 7, 2026, Expedited Project Review Technical Study Task Force Presentation.

DLOL Summer SAC & DLOL Winter SAC
Comparison of Seasonal Forecasts



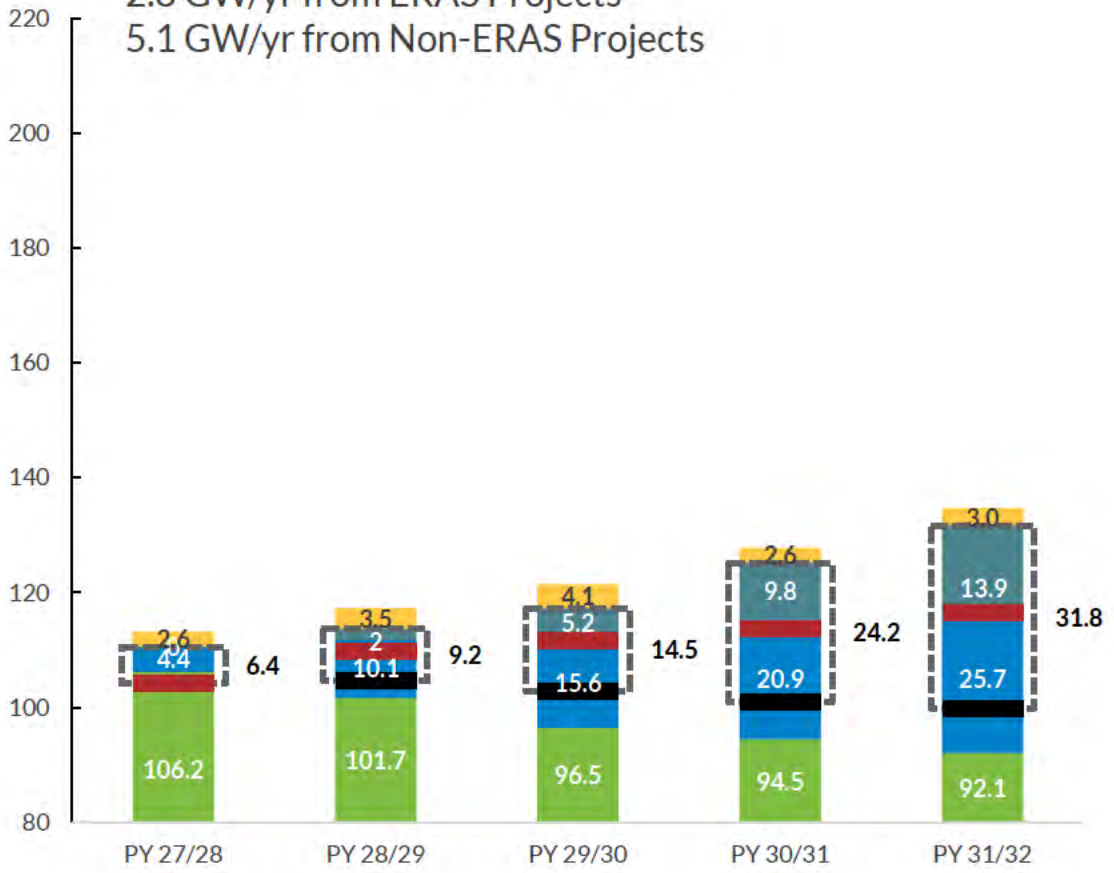


Projected PRMR with LSE Forecast | Projected PRMR Current Trajectory* | Committed Capacity | Potential New Capacity | Value of ERAS Projects | Potentially Unavailable Resources | Potential PRMR Surplus

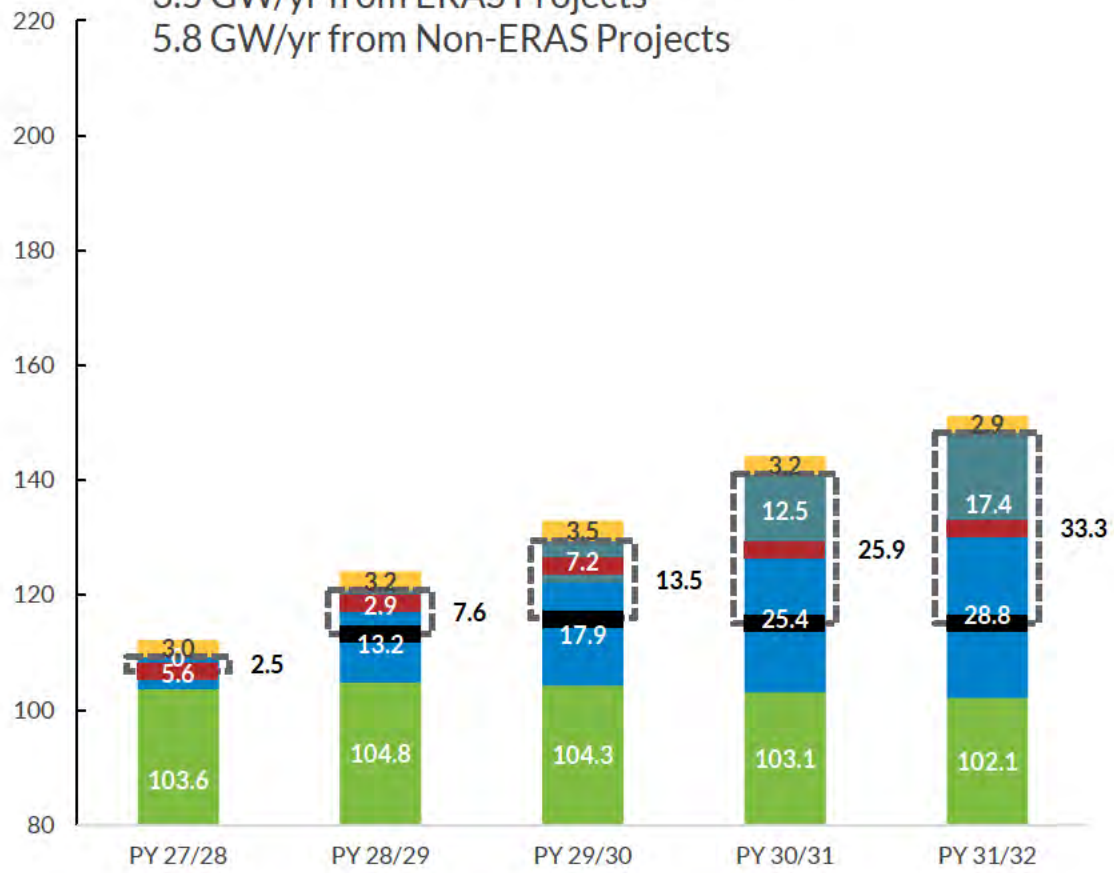
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All projection values are averages over five years. *Additional Load forecasts align with new information acquired since the 2026 Long Term Load Forecast Projections, as shown in April 7, 2026, Expedited Project Review Technical Study Task Force Presentation.

DLOL Fall SAC & DLOL Spring SAC
Comparison of Seasonal Forecasts

Member Plans Projection: *DLOL Fall SAC*
2.8 GW/yr from ERAS Projects
5.1 GW/yr from Non-ERAS Projects



Member Plans Projection: *DLOL Spring SAC*
3.5 GW/yr from ERAS Projects
5.8 GW/yr from Non-ERAS Projects



Projected PRMR with LSE Forecast | Projected PRMR Current Trajectory* | Committed Capacity | Potential New Capacity | Value of ERAS Projects | Potentially Unavailable Resources | Potential PRMR Surplus

The PRMR will change under the DLOL framework, reflecting the reliability requirements based on periods of highest risk (critical hours) and aligned with resource accreditation
All projection values are averages over five years. *Additional Load forecasts align with new information acquired since the 2026 Long Term Load Forecast Projections, as shown in April 7, 2026, Expedited Project Review Technical Study Task Force Presentation

Key Takeaways

The 2026 Survey emphasizes that decisions made today by members, regulators, and MISO will help maintain resource adequacy going forward

- Ongoing collaboration between OMS, MISO and members remains essential to address intensifying reliability risks, particularly as seasonal challenges, especially in winter, grow increasingly complex
- Continued actions are required to maintain pace for the addition of new capacity, align resources effectively with new load demands, and thoughtfully manage the pace of resource retirements
- MISO's ongoing Reliability Imperative reforms remain critical and responsive, directly addressing evolving reliability challenges

Members, states and MISO have collaborated on many Reliability Imperative initiatives to address resource adequacy challenges, but there's more to be done

Completed Initiatives

- ✓ Implemented Reliability-Based Demand Curve in 2025 PRA
- ✓ Began interim Expedited Resource Addition Study (ERAS) process *(June 2025)*
- ✓ Implemented Generation Interconnection Queue cap
- ✓ Reduced early phase of interconnection queue process
- ✓ Approved 10,570+ miles of new transmission lines

Initiatives In Progress

- Implement Direct Loss of Load (DLOL)-based accreditation
- Enhance resource adequacy risk modeling
- Improve queue cycle to 373 days
- Demand Response and Emergency Resource reforms
- Enhance allocation of resource adequacy requirements
- Reliability and Market requirements for Large Loads, Generation with Zero-Injection GIAs

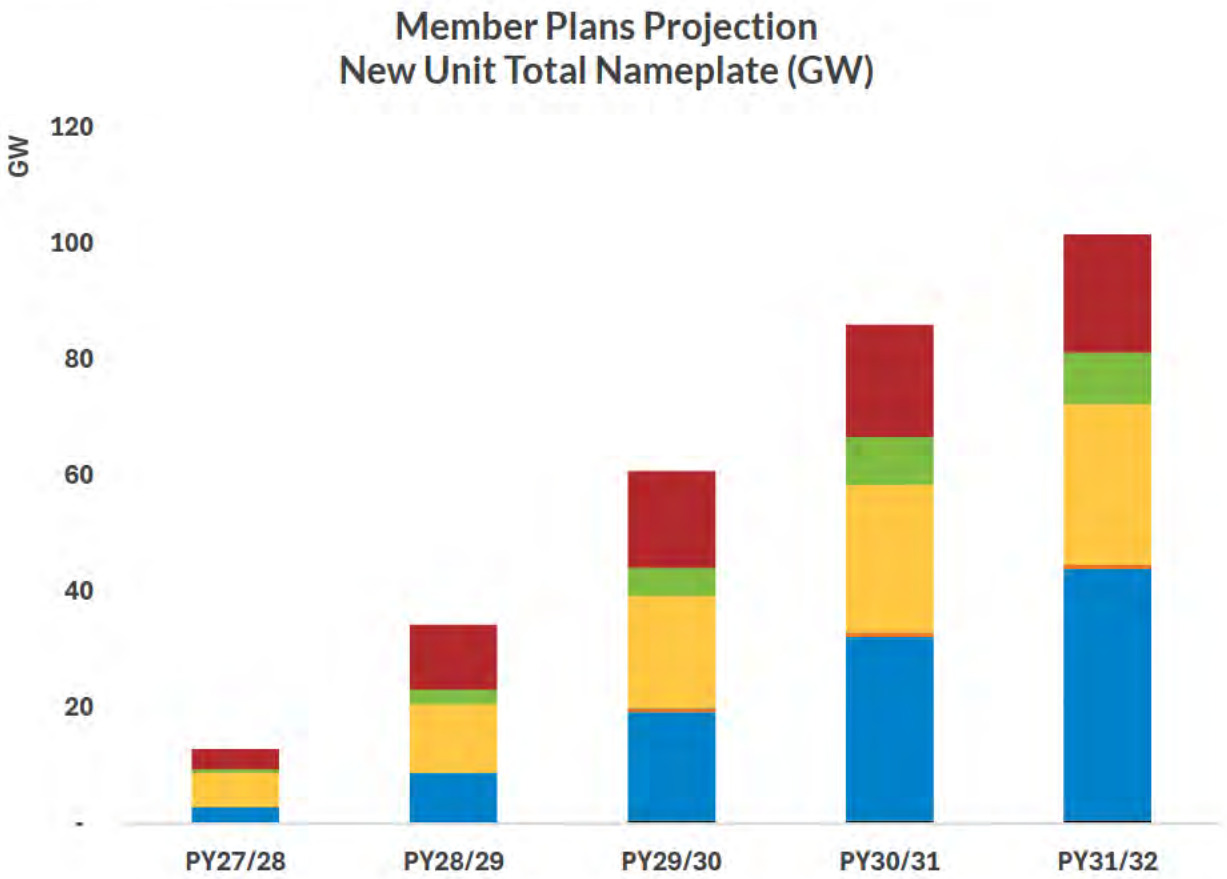
Ongoing Challenges

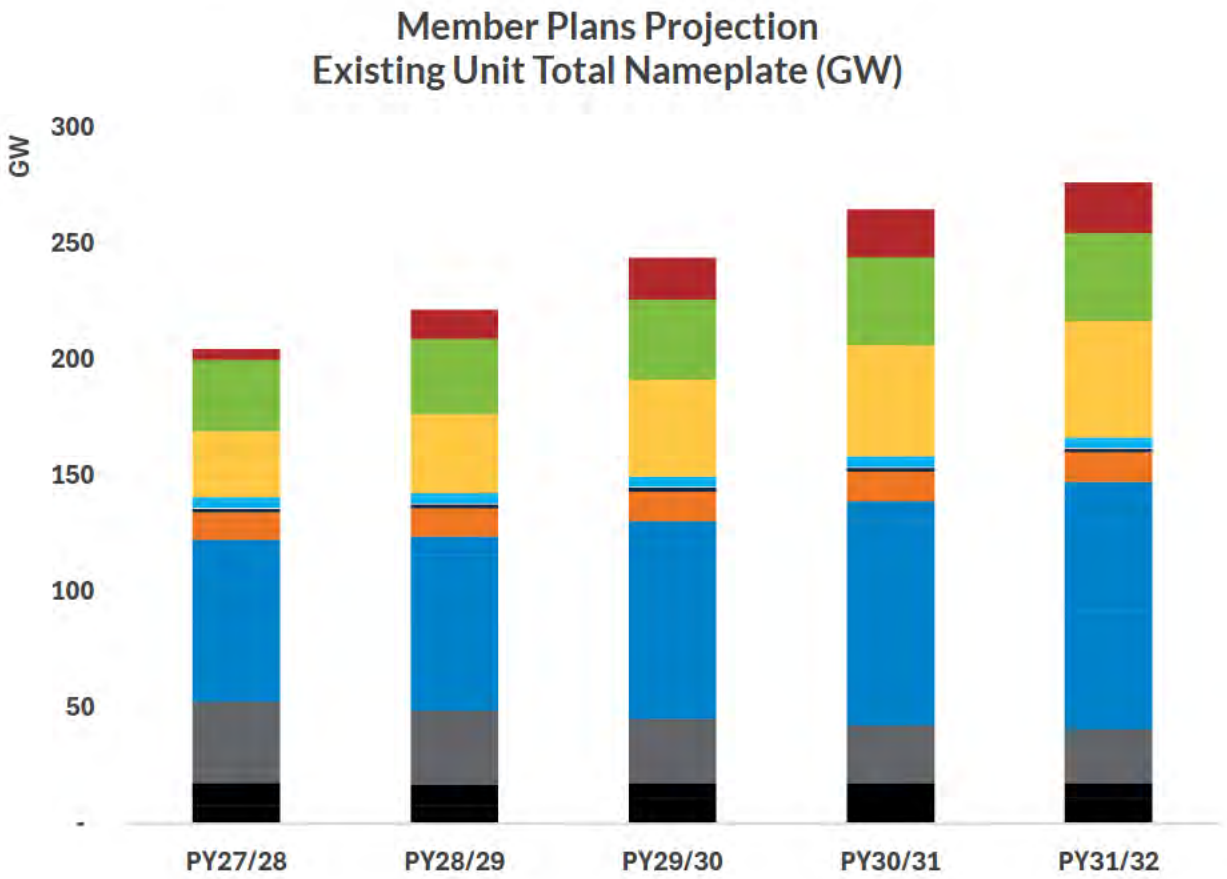
- More frequent extreme weather
- Accelerating demand for electricity and large load interconnections
- Loss of accredited capacity and reliability attributes as resource mix evolves
- Pace of new resources additions
- Address local reliability issues (load pocket)
- Evolve storage participation

APPENDIX

Additions and Fleet Composition by Nameplate (ICAP)

Combined Projections of Fuel Mix





Demand Response
External
BTMG
Coal
Gas
Combined Cycle
Dual Fuel Oil/Gas
Nuclear
Oil
Biomass/Other
Pumped Storage
Reservoir Hydro
Run-of-River Hydro
Solar
Hybrid
Wind
Battery Storage

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 187
NERC 2025 LTRA Update

NERC

2025 LTRA Sensitivity Case:

Addition of ERAS Resources in the MISO Assessment Area

April 2026

POWERING TODAY. PROTECTING TOMORROW.

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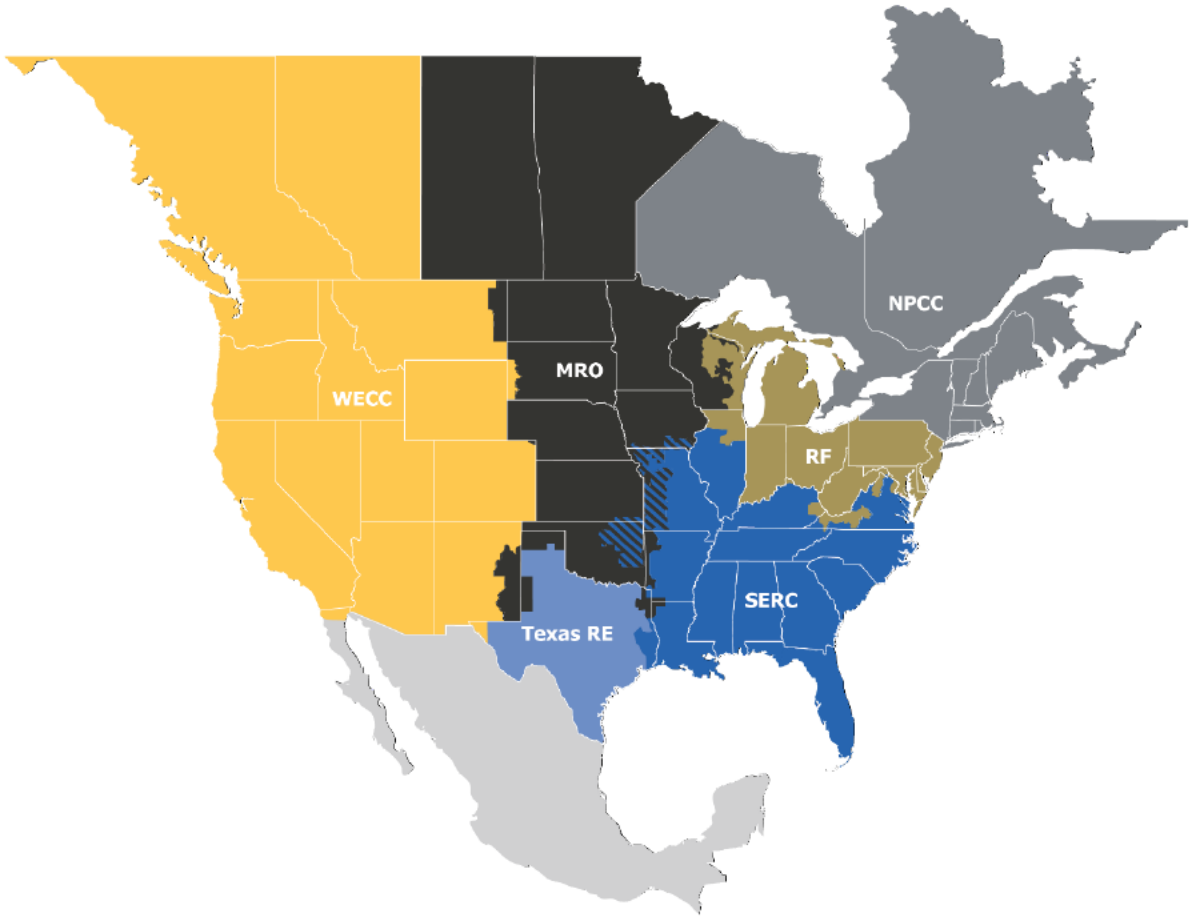
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Preface

Electricity powers our modern life and is the bedrock of our economic wellbeing. The Electric Reliability Organization (ERO) Enterprise—comprised of NERC and the six Regional Entities—is firmly committed to assuring a highly reliable, resilient, and secure bulk power system (BPS) in North America. The ERO Enterprise enables collaborative engagement with industry, regulators, and stakeholders, embracing innovation and supporting the needs of nearly 400 million people.

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POWERING TODAY. PROTECTING TOMORROW.

The North American BPS is made up of six Regional Entities as shown on the map and in the corresponding table below. The multicolored area denotes overlap as some load-serving entities participate in one Regional Entity while associated Transmission Owners/Operators participate in another.



MRO	Midwest Reliability Organization
NPCC	Northeast Power Coordinating Council
RF	ReliabilityFirst
SERC	SERC Reliability Corporation
Texas RE	Texas Reliability Entity
WECC	WECC

Purpose

This sensitivity case analysis of the *2025 Long-Term Reliability Assessment* (*2025 LTRA*) provides industry, regulators, and policymakers with insights on the effect that recent resource additions, approved under Midcontinent Independent System Operator's (MISO) Expedited Resource Addition Study (ERAS) process, may have on the resource adequacy projections reported in the LTRA. The analysis is prepared by NERC and applicable Regional Entities in the Eastern Interconnection[1] from MISO data and input. Results include a probabilistic analysis performed by MISO after the publication of the *2025 LTRA*. NERC initiated this limited-scope, out-of-cycle analysis in response to federal regulator feedback to provide an independent analysis into the potential effect of the substantive initiatives and regulatory actions taken in 2025 to address mounting resource adequacy concerns in the MISO area. Though this sensitivity case analysis is based on the addition of recent MISO ERAS projects, the findings and recommendations are applicable to resource planners and market operators as they confront the resource adequacy challenges described in the *2025 LTRA*.

[1] Regional Entities involved in reviewing this report are Midwest Reliability Organization (MRO), ReliabilityFirst (RF), and SERC Reliability Corporation (SERC).

Chapter 1: Summary Findings

The limited-scope sensitivity analysis confirmed *2025 LTRA* findings: Timely implementation of ERAS resources would eliminate reserve margin shortfalls in MISO and improve expected unserved energy metrics. Based on MISO's updated probabilistic analysis, the MISO assessment area was found to remain at **elevated risk** to system reliability for the 2027 year and fall to **normal risk** for the 2028–2030 period with the on-time addition of all ERAS projects (see Table 1.1). Furthermore, the probabilistic analysis shows that the risk of load loss and unserved energy in 2027 is reduced with the addition and operation of these projects. The results are discussed in Chapter 3.

Table 1.1: MISO Capacity and Energy Risk Summary

2025 LTRA					2025 LTRA with MISO ERAS Additions				
Risk Level (High, Elevated, or Normal)					Risk Level (High, Elevated, or Normal)				
2026	2027	2028	2029	2030	2026	2027	2028	2029	2030

The foundational assumption to this analysis is that all the ERAS projects and other approved resource additions from the *2025 LTRA* will be commercially operational in MISO as currently projected by the end of 2028. Such a rapid expansion, amounting to the addition of 50 GW in accredited capacity in under 3 years, will require overcoming obstacles to development that increasingly cause project delays and cancellations in MISO and other areas. Already, two battery projects with a combined 650 MW in capacity that were included in this sensitivity case have withdrawn. Project development and timing, transmission development, and natural gas fuel issues can all affect the future capacity and energy outlook. Their potential impacts on this sensitivity analysis case are discussed in Chapter 4.

The ERAS process developed by MISO and approved by the Federal Energy Regulatory Commission (FERC) in July 2025 is a strong initiative to shorten the timeline for generator interconnection study and approvals and help speed resources to the grid in response to mounting resource adequacy challenges identified by MISO, its member states, and the ERO.[2] Faster processing for new generators is critical to meeting demand growth, but other factors are also contributing to slower-than-anticipated BPS resource growth, including energy infrastructure needs, supply chain delays, and siting and permitting difficulties. Consistent with findings in the *2025 LTRA*, NERC continues to recommend that Independent System Operator/Regional Transmission Organizations (ISO/RTO) and stakeholders in market areas maintain necessary flexibility in their resource plans and market procurement processes. NERC's recommendations from this sensitivity case analysis are discussed in Chapter 5.

NERC initiated the next annual LTRA cycle in February 2026 and is planning to publish its LTRA report in early 2027. The annual LTRA covers the entire North American BPS and is based on the latest BPS resource, demand, and transmission development projections. The MISO ERAS units with their updated statuses will be reflected in the *2026 LTRA*.

[2] The ERAS process aims to respond to generation needs and provide a framework for an accelerated study of generation projects that address urgent resource adequacy and reliability needs. MISO requires that ERAS projects be accompanied by a written verification of reliability need from the Relevant Electric Retail Rate Authority (RERRA), or a documented representative, where the load to be served by the generating facility is located.

Chapter 2: Sensitivity Analysis Scope and Approach

This sensitivity case analysis provides insights into the potential effect that the ERAS process resources may have on resource adequacy in the MISO assessment area if they are able to meet all commercialization targets. Changes to the analysis are limited to the inclusion of the ERAS resources, which were not included in the *2025 LTRA*. Load forecasts and other resource projections were not updated in the probabilistic analysis conducted by MISO.

Analysis Approach

NERC evaluates industry-provided resource adequacy data and credible studies to assess risks of future energy shortfalls as the system is currently planned. Probabilistic and deterministic analyses provide forward-looking snapshots of resource adequacy tied to industry forecasts of electricity supplies, demand, and transmission development. The risk analysis entails these components:

- **Assessing load-loss metrics determined from probability-based simulation of projected demand and resource availability across all hours:** This approach identifies high-risk periods and potential energy constraints resulting in load-loss events. MISO updated the 2025 Probabilistic Assessment (ProbA) to examine the system as planned for the years 2027 and 2029. Loss-of-load hours (LOLH) and expected normalized unserved energy (NEUE) from the probabilistic analysis were used to identify risk levels.
- **Comparing the margin between projected resources and peak net demand, or Anticipated Reserve Margin (ARM), to a reserve margin target:** This reserve margin target is known as the Reference Margin Level (RML), and it represents the accepted level of risk based on a probability-based loss-of-load analysis.

The risk determination is based on data and information provided to NERC and represents a snapshot in time.

Risk Categories

NERC uses the following three levels of risk category determination for each assessment area and associated years for which there is a risk of energy shortfall during the first five years of the LTRA period. An assessment area is determined as **High Risk** when established resource adequacy targets or requirements are not met or when probabilistic or deterministic energy analyses find that planned resources produce shortfalls resulting in unserved energy or load loss exceeding criteria for the baseline resource adequacy specified as follows:

- Annual LOLH exceeds 2 hours/year for one or more years in the ProbA.
- Annual normalized expected unserved energy (EUE) exceeds 0.002% (20 ppm) for one or more years in the ProbA.
- Resource adequacy target(s) established by the regulatory authority or system operator are not met.

An assessment area is determined to have **Elevated Risk** when it meets the established resource adequacy targets and baseline criteria but does not meet more stringent thresholds of unserved energy and load loss that provide for reliability in more extreme weather conditions.

- Annual LOLH is between 0.1 and 2 hours/year for one or more years in the ProbA.
- Annual normalized EUE is less than 0.002% (20 ppm) but greater than or equal to 0.0002% (2 ppm) for one or more years in the ProbA.

- Resource adequacy target(s) established by the regulatory authority or system operator are met but plausible scenarios of above-normal demand and/or low-resource conditions indicate risk of load loss.

An assessment area is determined to have Normal Risk if resource adequacy criteria are met and there is a low likelihood of electricity supply shortfall even when demand is above forecasts or resource performance is abnormally low.

- Annual LOLH is below 0.1 hours/year in the ProbA.
- Annual normalized EUE is below 0.0002% (2 ppm).
- Resource adequacy target(s) established by regulatory authority or system operator are met and reserves are expected to be available in plausible scenarios of above-normal demand and/or low-resource conditions associated with a once-per-decade event.

Chapter 3: Capacity and Energy Risk Analysis for MISO with ERAS

The probabilistic analysis done in March 2026 for this sensitivity case found that the MISO assessment area had improved resource adequacy metrics compared to the *2025 LTRA*. With ERAS additions, MISO would be in the elevated risk category for year 2027. From 2028 and beyond, the risk threshold has shifted to normal risk with the addition of ERAS projects and the assumption that these will become commercially operational by the end of 2028 (see Table 3.1).

Table 3.1: Capacity and Energy Risk Numerical Summary for MISO with ERAS

Year	EUE (MWh)	NEUE (ppm)	LOLH (hours per year)	Anticipated Reserve Margin (ARM)		Reference Margin	
				Summer	Winter	Summer	Winter
2026				11.8%	27.2%	8.1%	19.1%
2027	430.62	0.61	0.11	12.5%	26.0%	8.3%	19.8%
2028				19.5%	37.1%	8.5%	20.5%
2029	0.00	0.00	0.00	28.5%	31.8%	8.5%	20.9%
2030				24.0%	27.0%	8.5%	21.2%

Most of the MISO ERAS resource capacity is projected to come from natural-gas-fired generators, which are generally dispatchable and help reduce energy shortfall risks throughout the year. When analyzing results from the updated probabilistic analysis, risk of load loss was seen to remain in 2027 and resided within the summer season, while risk of load loss within the winter season was mitigated. Both the 2027 and 2029 updated results displayed an overall reduction in the annual unserved energy metrics compared to the *2025 LTRA* results.

Figure 3.1 details the capacity additions that were included within each season and year of this analysis.[3]

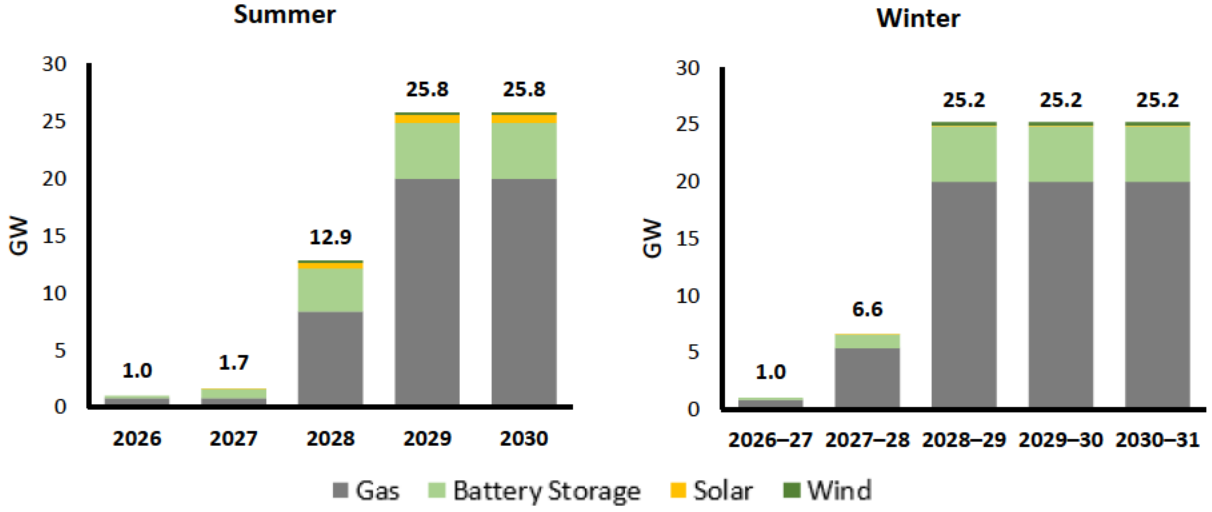


Figure 3.1: ERAS Project Cumulative Capacity Addition Summary 2026–2030[3]

[3] Values are unforced capacity (or certain capacity) additions as reported by MISO. In general, unforced capacity refers to the expected capability of the resource to provide energy to serve expected demand. Thermal generating capacity is adjusted to account for outages or derates. Solar, wind, and batteries are derated due to their variability.

Analysis of anticipated resources (existing + Tier 1) when compared with 2025 load forecast projections display adequate capacity for both the summer and winter seasons and may be seen in Figure 3.2. These results offer a point-in-time snapshot of risk based on the data available during the time of this analysis and provide additional insights from a deterministic approach.

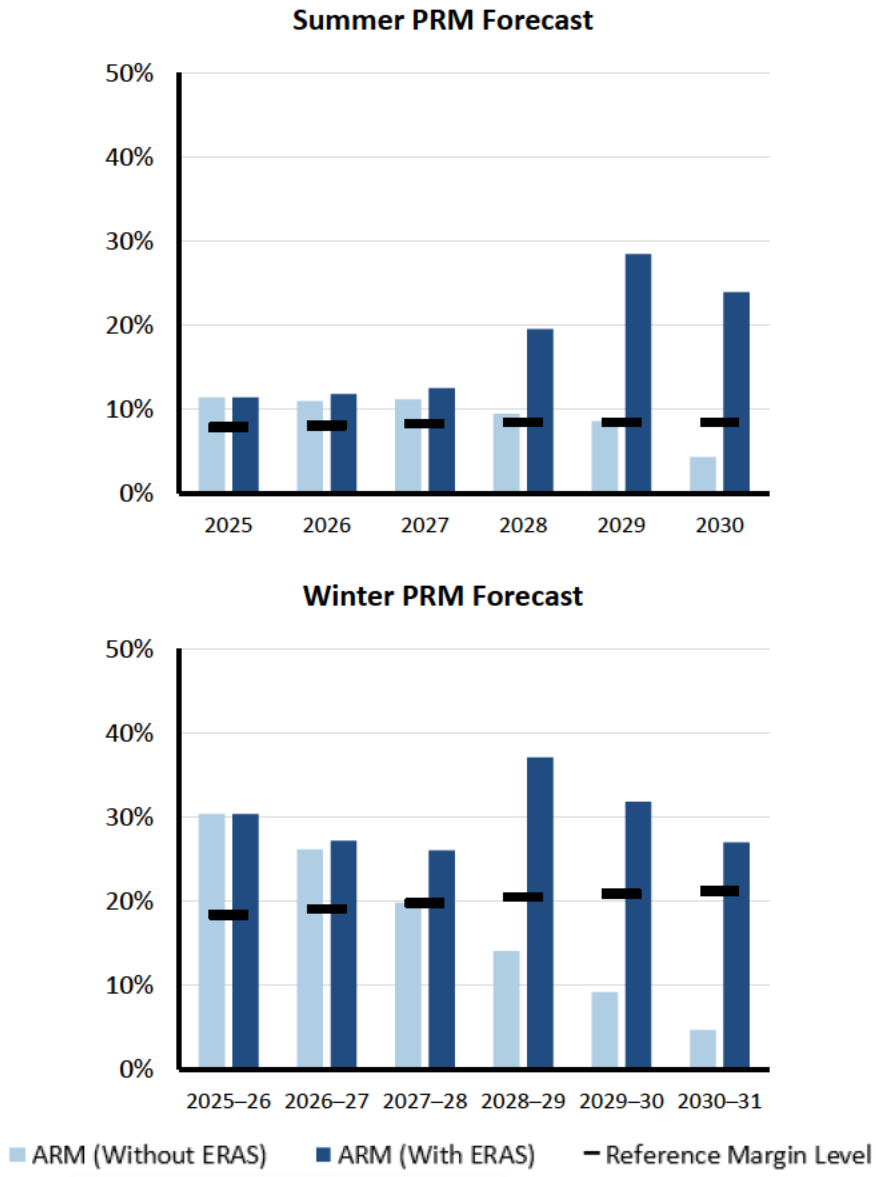


Figure 3.2: MISO Planning Reserve Margins with and Without ERAS Additions

The foundational assumption to this analysis is that all the ERAS projects will be commercially operational as currently projected by the end of 2028. The included ERAS resources meet the criteria that NERC uses for counting capacity in the LTRA energy and capacity risk assessment, but the pace of resource additions in MISO with ERAS far exceeds recent historical levels. In the *2025 LTRA* and 2025 ProbA MISO factored in potential delays and withdrawals to resource additions based on historical information from the interconnection process. The following chapter discusses project timing and completion concerns and other issues that would affect the capacity and energy risk results presented in this chapter.

Chapter 4: Grounded Expectations

The ERAS process can enable rapid interconnection study and approvals, but industry still faces persistent headwinds to develop energy infrastructure. Familiar obstacles to realizing the speed and scale of resource additions in MISO remain, including development of the transmission network and fuel infrastructure needed to support the new generation. MISO, utilities, and regulators will need to carefully monitor the ERAS and interconnection queue progress, development of related transmission and energy infrastructure, and load forecast projections. Areas of concern are highlighted in this chapter.

Realistic Projections for Resource Additions

The approval of new ERAS projects in late 2025 provides a sizable increase to the projected resource additions in MISO at a time when MISO and other areas are straining to build out new generation and transmission. MISO is projecting strong growth in resources—exceeding 50 GW of accredited capacity by 2029 Summer (50% from ERAS projects)—to meet growing demand (see **Figure 4.1**). In the next three years alone, MISO is projecting to add over 34 GW of accredited capacity to its system, which is three times more accredited capacity than has come on-line in the last three years within the MISO area. For such an acceleration in resource development, challenges should be anticipated.

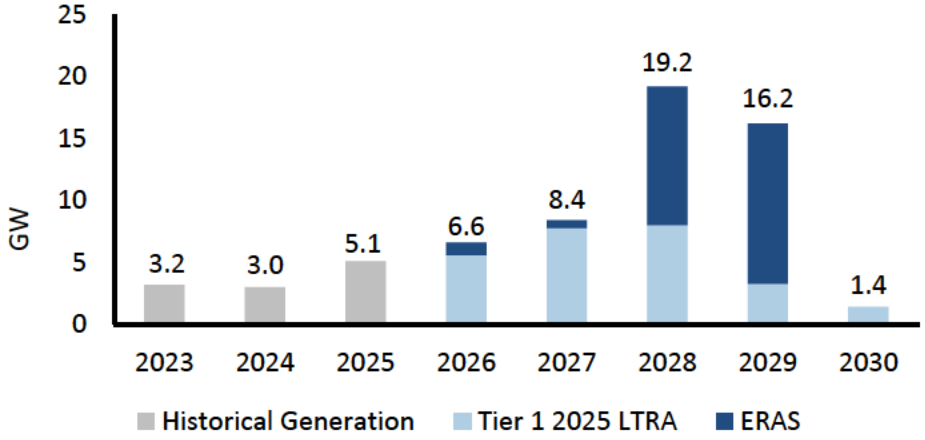


Figure 4.1: Historical and Projected Accredited Capacity Additions in MISO[4]

Over the past two years, NERC's LTRA has shown that industry resource growth projections can outpace actual completion rates. Industry efforts to interconnect new resources and develop energy infrastructure are hampered by unresponsive supply chains, permitting delays, and project owner decisions that contribute to an uncertain pace of resource growth. Reviews of interconnection progress find that many resources do not come in as expected. Analysis performed by WECC for the Western Interconnection found that, on average from 2022 to 2024, 67% of the planned resources in the West were added on time.[5] Lawrence Berkeley National Labs analysis finds that the median time for generators to go from having a signed interconnection agreement to commercial operation is 33 months and has been growing.[6]

[4] Historical accredited generation came on-line by the end of the calendar year while projected capacity is assumed to be on-line by the summer season of the year referenced.
Historical accredited generation came online by the end of the calendar year while projected capacity is assumed to be online by the summer season of the year referenced.
[5] WECC 2025 Western Assessment of Resource Adequacy
[6] Lawrence Berkeley National Laboratory Queued Up 2025 Edition

Risk of Project Delays

ERAS projects have priority for study and processing stages of interconnection but are not insulated from other project development hurdles, like slow supply chains or issues with siting and permitting. ERAS generator projects may also require transmission or natural gas infrastructure upgrades that can also be subject to the same development challenges. Equipment delays and shortages in materials and skilled workers are affecting generator and transmission projects broadly. The industry is experiencing delays due to low availability of long-lead equipment including gas turbines and power transformers, and issues are expected to become more acute as demand for grid equipment escalates globally.[7] Permitting challenges are also on the rise. It is increasingly common for new generation and energy infrastructure projects to face opposition at local government levels, though some states in MISO now prohibit local laws from being more restrictive than state laws for some resource types.[8]

MISO interconnection queue timelines for past (non-ERAS) projects indicate that delays can reach one and a half years for natural gas resources, two years for battery storage resources, and over two and a half years for wind and solar resources from the completion dates in original interconnection agreements. The ERAS process allows project developers to delay their commercial operation date (COD) by up to three years from the COD on its approved interconnection agreement.

Risk of Project Cancellations

System planners can anticipate that some resource project developers will cancel their projects despite the expedited interconnection processing. The Texas Energy Fund (TEF) is an example of an initiative to spur resource growth in Texas that is underutilized and suffered from 5 GW in project withdrawals since it was established in 2023. The TEF program currently has 3.5 GW in approved projects and has produced few resource additions toward the program's goal of 10 GW.[9]

MISO's ERAS program carries penalties for project owners that cancel their project after receiving a signed interconnection agreement. Projects totaling 5.3 GW of installed capacity (18% of current ERAS projects) have executed interconnection agreements. Projects can be withdrawn from the ERAS queue prior to having an interconnection agreement without penalty. As of March 2026, 36 GW of projects entered the ERAS queue and 18% of that total (or 6.6 GW) have been withdrawn from the ERAS queue (see **Figure 4.2**). Two of the withdrawn projects are battery resources with a combined 650 MW capacity that were included as additions in this sensitivity analysis.

[7] WECC reports in the 2025 Western Assessment of Resource Adequacy that wait times for transformers and circuit breakers is between two and four years.

[8] Matthew Eisenson, Jacob Elkin, Ivonne Norman, Rebecca Coombs, Chadol Kim, Rex Koenig, Suzan Michalski, Eric Quiroz, Josepi Scariano, Ava Teasdale, Victor Tong, and Annabel Williams, Opposition to Renewable Energy Facilities in the United States: June 2025 Edition, Sabin Center for Climate Change Law, June 2025 Available at: https://scholarship.law.columbia.edu/sabin_climate_change/251

[9] See Texas Energy Fund online for listing of awards and links to filings.

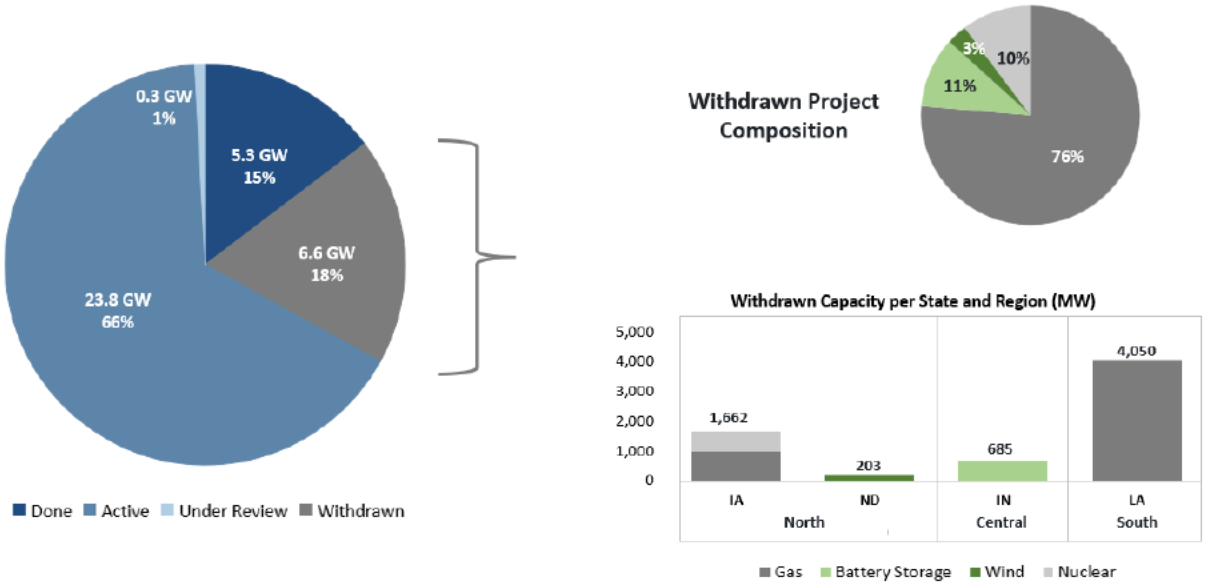


Figure 4.2: Total ERAS Project Summary and Withdrawn Composition (Max Installed Capacity)

Trends in Load Forecasts are Rising

In updating resource projections with late 2025 additions but not including the new load forecasts that MISO is processing for this same point in time, the limited-scope analysis ignores the effect that past trends in load growth could have on the results. NERC's *2025 LTRA* observed that BPS electricity demand forecasts continue to rise over prior-year assessments. In 2025, MISO reported higher demand forecasts than the prior year and expected that increases would continue.

As noted in the *2025 LTRA*, MISO's forecasted peak total internal demand is expected to reach 127 GW during the 2026 Summer season (up over 2.6 GW since the same year's projection in the *2024 LTRA*) and is expected to grow to 143.7 GW by 2035. Much of MISO's load growth forecast comes from the addition of large computational loads whose operational characteristics are still being evaluated to better understand the impact that these loads will have during low margin or critical hours where system risk may occur. Over the past several years, load forecasts have changed year over year to include higher peak demands with varying expectations for when these loads will materialize across the MISO system. All assessment areas, including MISO, will provide new load forecast projections for the *2026 LTRA* in July 2026.

Natural Gas Infrastructure Needs

The addition of ERAS natural-gas-fired generation in the next four years can provide important reliability benefits provided that the fuel infrastructure can support MISO's growing reliance on natural gas fuel. However, the current natural gas system can become constrained during extreme cold weather resulting in operational flow orders and fuel supply curtailments to electric generators.[10]

Over 75% (exceeding 20 GW) of ERAS projects in this analysis are natural-gas-supplied and are concentrated in Louisiana, Indiana, Wisconsin, and Iowa. The ability of current natural gas transportation capacity to meet increasing generation needs is in question, and newly planned natural gas infrastructure is at risk of delays

[10] Winter storms Uri in 2021 and Elliott in 2022 revealed vulnerabilities within the interdependent natural gas and electric systems through major gas supply disruptions. More recently, MISO noted generator unplanned outages and derates due to fuel related issues in Winter Storm Fern.

due to regulatory and commercial challenges, as well as supply chain congestion. In addition, there is potential for misalignment between the locations of new pipeline projects and the areas of greatest need. The stress on the natural gas pipeline grid makes clear the need for careful analysis of generator fuel assurance plans and backup fuel capability.

Chapter 5: Recommendations

The limited-scope analysis confirmed *2025 LTRA* findings: Timely implementation of ERAS resources would eliminate reserve margin shortfalls in MISO and improve EUE metrics. This is a significant and important takeaway. By streamlining the study and interconnection process for resource additions that address identified reliability needs and are approved by regulators, MISO is removing an obstacle that has become increasingly prevalent in the ISO/RTO areas. The ERAS program is a strong response by MISO, its utility members, and state regulators to address serious resource adequacy challenges from load growth, generator retirements, and a transforming resource mix. **As MISO and other ISO/RTOs analyze their interconnection queue performance, NERC recommends that they share findings and best practices to promote broad application of enhancements that reduce backlogs in interconnection queues and support adding resources that are needed for reliability.**

As more ERAS projects reach the stage of having signed interconnection agreements and begin siting, permitting, and construction, it is crucial for MISO, Generator Owners, and regulators to carefully track their progress and be prepared to adjust resource and system plans. Industry has reported delays for energy infrastructure projects that stem from a variety of sources.

NERC recommends that ISO/RTOs and stakeholders in market areas maintain necessary flexibility in their resource plans and market procurement processes. Monitoring the development of projects in the expedited interconnection processes and feedback loops are needed so that adjustments can be made when resource buildout is not on track to meet intended targets. Factors that can affect resource development timelines that need to be monitored include the following:

- **Siting and permitting:** Project developers should provide early indication of permitting challenges to regulators and ISO/RTOs.
- **Supply chain issues:** An up-to-date project status will help maintain a realistic outlook for commercial operation.
- **Fuel infrastructure development:** To support substantial additions in natural-gas-fired generation and accurately assess their contribution to reliability, system planners need to have insights into fuel arrangements and should monitor natural gas industry plans for infrastructure development.
- **Project cancellations:** Stakeholders in expedited interconnection processes should maintain flexibility in resource plans while project owner plans progress toward commercial operation.

Planners will need to balance the pace of resource additions against future shifts in demand forecasts. Escalating load forecasts have been the trend for the North American BPS for the past three years with several areas expecting peak demand to grow by over 2% per year for the next 10 years. Because of the size and construction speed of new data center projects, demand forecasts can change substantially each year. Expedited resource programs such as ERAS are providing a crucial boost to meet needs as anticipated today; however, flexibility in resource plans and interconnection processes will still be needed to meet shifting demand forecasts and development timelines.

NERC's *2026 LTRA* will provide a more complete snapshot of future resource adequacy risks for MISO and the rest of the North American BPS. The next LTRA will be published in early 2027.

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 188
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Who's paying to keep coal plant alive? All electricity customers, Trump advisor says.





The J.H. Campbell coal-fired power plant in Michigan. Consumers Energy had planned to retire the plant in 2025, but President Trump ordered it to keep operating.
© Jim West / UCG / Getty Images

A Trump administration official said Wednesday that efforts to keep coal-fired power plants running beyond their planned retirement dates will ultimately be paid for by electricity customers.

Federal efforts to block coal plant retirements aim to preserve grid reliability amid a surge in electricity demand driven by data centers and artificial intelligence, said Peter Lake, a member of the White House's National Energy Dominance Council, speaking at the American Enterprise Institute's "Powering Prosperity and the New Electricity Economy" conference in Washington.

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"All costs end up on ratepayers," Lake said, responding to a question about who pays when utilities are required by the federal government to keep coal plants online after having invested billions of dollars in replacement power generation.

He added that industrial customers typically bear a larger share of those costs, equivalent to about 60%. But it depends on the utility, their generation makeup, and how rate structures allocate expenses based on load size and peak demand.

The Trump administration has so far prevented dozens of coal units from retiring, invoking emergency authorities and directing federal agencies to intervene in power markets. Officials say the U.S. grid cannot afford to lose generation as electricity demand accelerates faster than expected.

The administration has also framed its coal policy as an affordability and reliability measure, aimed at avoiding what Lake said could be $34 billion to $40 billion in replacement costs if operating coal plants were allowed to retire before new dispatcheable resources are in place.

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Government estimates call for roughly 100 gigawatts of new power by 2030, a figure Lake compared with adding "California plus two New Yorks" to the grid in less than five years.

"Yes, we need coal. We need gas. We need batteries. Anything with an answer," Lake said.

Coal is getting a boost from AI power and industrial demand. Several utilities, including Duke Energy and some subsidiaries of Southern Company, revised plans to retire some coal units after forecasting sharp increases in demand from data centers and advanced manufacturing. The changes were approved through state-regulated processes.

But utilities say that being forced to keep some coal plants open is upending years of state-approved planning.

For example, the Michigan-based Campbell coal plant, owned by CMS Energy, was forced by the Trump administration to continue operating into 2026 after being scheduled to retire in 2025, costing about $615,000 a day, according to company filings. The state utility running the plant, Consumers Energy, had already invested in replacement gas generation, renewable contracts, and grid upgrades.

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Consumers Energy warned that extending Campbell's operations will adds millions of dollars in incremental fuel, maintenance, and staffing costs that weren't contemplated in approved rates, according to regulatory filings.

Consumers in regulated energy markets may be hit hardest as coal plants stay open longer than planned. A utility that voluntarily plans to delay a plant retirement often gets approval from regulators in a deal that includes freezing rates for consumers and special tariffs that shift costs toward large industrial users like data centers.

That framework can collapse when Washington forces plants to keep operating. When a plant is kept online after replacement assets are already in the rate base, customers effectively pay twice—once for the new plant, and again for the old one.

Some utilities are trying to manage rising AI power needs without passing along costs to households. In Louisiana and parts of the Midwest, for instance, utilities have negotiated special large-load tariffs and contract terms with data-center customers that include higher base rates, upfront infrastructure contributions, and curtailment provisions during grid stress.

Washington 69°F

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approach," said Rob Gramlich, president of Grid Strategies LLC, at the AEI conference, noting that tens of gigawatts of approved generation remain stalled in interconnection queues due to permitting and transmission constraints.

A study by Grid Strategies, a consultancy funded partly by environmental groups including the Sierra Club, found that the administration's plan to stop fossil fuel plants from closing could cost ratepayers $3.1 to $5.9 billion a year.

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San Diego Padres right fielder Brian O'Grady (left) smiles in the dugout after hitting a two-run home run against the Chicago Cubs during the third inning at Petco Park on June 7, 2021. | Orlando Ramirez-Imagn Images

Brian O'Grady, who played the last of his three MLB seasons with the San Diego Padres in 2021, announced his retirement from professional baseball in a post tc his X account Saturday.

"After 12+ years of pro baseball I am officially retired!" O'Grady wrote. "From living out my dream in the MLB, to Japan, Korea, Mexico and everywhere in between - it has been an incredible ride. I gave baseball everything I had, and it gave me even more. I could go on and on, but really I'm just grateful. For the life lessons, relationships, memories and much more.

"Baseball led me to my beautiful wife, our amazing kids, and this life we have built. That is what I am most grateful for. Thank you baseball — you were everything this kid dreamed of."

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BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 189
NERC 2026 Summer Reliability Assessment

2026 Summer Reliability Assessment

May 2026

RELIABILITY | RESILIENCE | SECURITY

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Preface

Electricity powers our modern life and is the bedrock of our economic wellbeing. The Electric Reliability Organization (ERO) Enterprise—comprised of NERC and the six Regional Entities—is firmly committed to assuring a highly reliable, resilient, and secure bulk power system (BPS) in North America. The ERO Enterprise enables collaborative engagement with industry, regulators, and stakeholders, embracing innovation and supporting the needs of nearly 400 million people.

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The North American BPS is made up of six Regional Entities as shown on the map and in the corresponding table below. The multicolored area denotes overlap as some load-serving entities participate in one Regional Entity while associated Transmission Owners/Operators participate in another.



MRO	Midwest Reliability Organization
NPCC	Northeast Power Coordinating Council
RF	ReliabilityFirst
SERC	SERC Reliability Corporation
Texas RE	Texas Reliability Entity
WECC	WECC

About This Assessment

NERC's *2026 Summer Reliability Assessment* (SRA) identifies, assesses, and reports on areas of concern regarding the reliability of the North American BPS for the upcoming summer season. In addition, the SRA presents peak electricity demand and supply changes and highlights any unique regional challenges or expected conditions that might affect the reliability of the BPS. The reliability assessment process is a coordinated evaluation between the NERC Reliability Assessment Subcommittee, the Regional Entities, and NERC staff with demand and resource projections obtained from the assessment areas. This report reflects an independent assessment by NERC and the ERO Enterprise and is intended to inform industry leaders, planners, operators, and regulatory bodies so that they are better prepared to take necessary actions to ensure BPS reliability. This report also provides an opportunity for industry to discuss plans and preparations to ensure reliability for the upcoming summer period.

Key Findings

NERC's annual SRA covers the upcoming four-month (June–September) summer period. This assessment evaluates generation resource and transmission system adequacy as well as energy sufficiency to meet projected summer peak demands and operating reserves. This includes a deterministic evaluation of data submitted for peak demand hour and risk hours as well as results from recently updated probabilistic analyses. Additionally, this assessment identifies potential reliability issues of interest and regional topics of concern. While the scope of this seasonal assessment is focused on the upcoming summer, the key findings are consistent with risks and issues that NERC highlighted in the *2025 Long-Term Reliability Assessment* (LTRA), which covers a 10-year horizon, and other earlier reliability assessments and reports.[1]

The 2026 Summer risk profile is marked by rising demand, significant generation growth in many areas, the prospect of challenging hydrological conditions, and the unpredictability of large loads, from both a forecasting and operational perspective. Multiple assessment areas have revised load forecasts downward from mid-2025 projections to account for the observed rate of completion for large load interconnections and the slower-than-expected pace at which some of those loads are coming on-line. Still, aggregated peak demand across all assessment areas has increased by over 11 GW from Summer 2025 projections that were set earlier in 2025. That level of growth exceeds the year-on-year rise of 10 GW that preceded Summer 2025. As important as the demand growth itself is the timing of the demand. The early arrival of summer heat and high demand in March has highlighted the risks associated with potential overlaps between spring maintenance outages and high demand. The importance of shoulder season supply-demand analysis continues to grow. The BPS has added slightly more than 58 GW of new resources year on year heading into the coming summer. This large resource addition has partly contributed to the improved risk outlook for some areas. The resource additions continue to include a high proportion of variable energy resources, supporting the prioritization of low-wind event preparation and probabilistic analysis of available energy at peak and risk hours.

The following findings are derived from NERC and the ERO Enterprise's independent evaluation of electricity generation and transmission capacity as well as potential operational concerns that may need to be addressed for Summer 2026.

[1] NERC's long-term, seasonal, and special reliability assessments are published on the Reliability Assessments webpage.

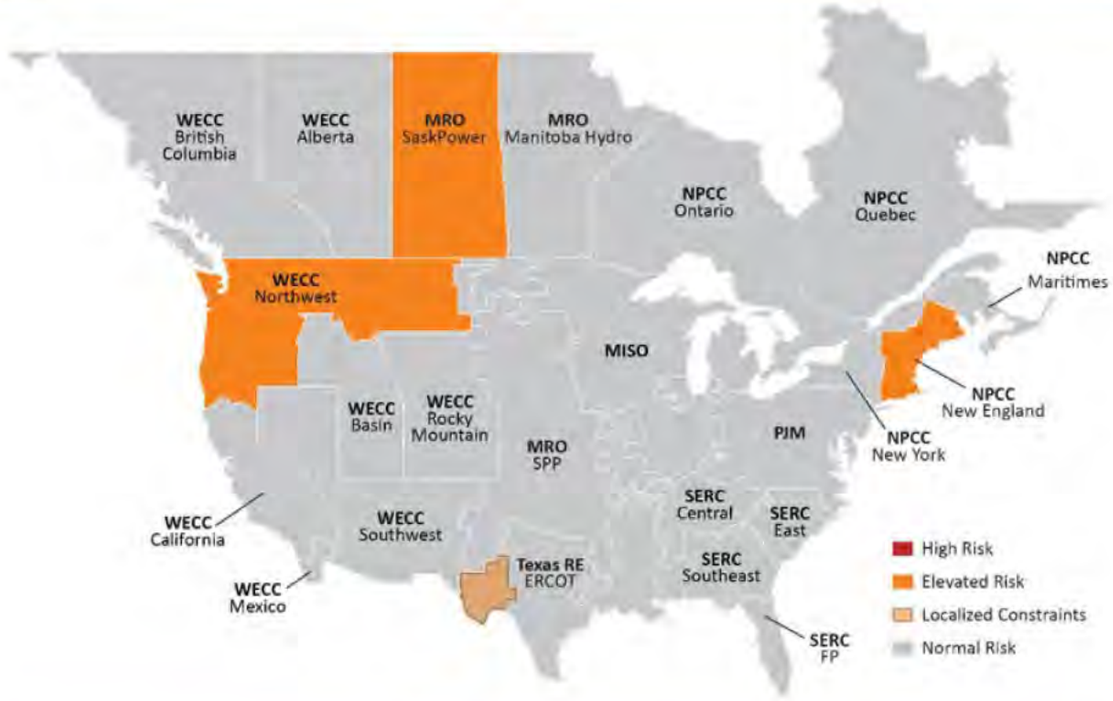
Resource Adequacy Assessment and Energy Risk Analysis

All areas are assessed as having adequate anticipated resources for normal summer peak load conditions (see **Figure 1**). However, the following areas face elevated risks of electricity supply shortfalls during periods of more extreme summer conditions or are subject to localized constraints that raise the risk levels of certain small areas within the broader system. This determination of elevated risk is based on analysis of plausible scenarios, including 90/10 demand forecasts and historical high outage rates as well as low wind or solar photovoltaic (PV) energy conditions:

- **NPCC-New England:** The New England area expects to have sufficient resources to meet the 2026 Summer peak demand forecast for normal conditions with an Anticipated Reserve Margin of 14%, just above the Reference Margin Level of 13%. New England may rely on non-firm imports to cover shortfalls even as the region has lowered its projected net firm imports by 836 MW from the previous year's projections to just 409 MW for the coming summer season. The decline in firm transfers is the main driver of the 2.6% year-on-year drop in anticipated resources. Non-firm imports, however, received a boost in January with the addition of New England Clean Energy Connect (NECEC), a symmetric monopole +/- 320 HVdc line from the Appalaches substation in Québec to a new substation in Lewiston, Maine. NECEC will be used as an "import-only" tie with Hydro Québec and can import up to 1,200 MW into New England. Total internal demand for the 50/50 peak summer demand forecast is 25,228 MW, up marginally from the demand projections in the *2025 SRA* of 25,202 MW. Expected increases in electrification are the biggest driver in the region's demand forecast as well as slight weather normalization changes. Other resource types have slightly increased from last year within the region. Based on NPCC's most recent energy assessment, some use of New England's operating procedures for mitigating resource shortages is anticipated during Summer 2026 for the base case (50/50 normal demand). For the scenario with the highest peak load and reduced resources, the results were a cumulative loss of load expectation (LOLE) of <0.35 days/period, loss of load hours (LOLH) of <1.2 hours and expected unserved energy (EUE) of 628 MWh/period.
- **MRO-SaskPower:** SaskPower was at elevated risk in the *2025 SRA*, and resource adequacy metrics have declined slightly year on year for the upcoming summer period. Reserves have tightened from 34% to 29% due to a ~1.9% demand growth and no substantial change in resources. While SaskPower does not anticipate capacity constraints or reliability issues under normal conditions, extreme summer conditions may cause SaskPower to require maintenance rescheduling, short-term power transfers from neighboring utilities, and/or available demand-response programs. SaskPower's probabilistic in-house model showed an LOLH for an elevated risk scenario for the 2026 Summer season to be 0.09 hours; the month with the highest LOLH is September (0.05 hours).
- **WECC-Northwest:** The coming summer brings challenging hydrological conditions for regions in which hydropower makes up half or more of the supply fleet. Almost the entire Western Interconnection is in the grips of a persistent drought or in an area where drought development has a greater likelihood through the end of July. In Washington, for example, the snow water equivalent was at 52% of normal levels as of April 1 this year,[2] when snowpack typically reaches its peak. While the total water year supply is forecast to be nearly average in the Columbia River Basin, snowpack peaked at low elevation and melted early in the year. This has implications for the expected resources available to the Northwest, the generation mix for which is 55% hydropower. The region is contending with a nearly 5% increase in net internal demand from the *2025 SRA* and a nearly 2% drop in existing resources as well as a roughly 43% drop in expected Tier 1 resources. Though higher modeled net transfers are projected to contribute double what they were projected to last year (albeit with the increase largely attributable to a modeling change that accounts for economic transfers), this was not enough to prevent the drop in the Anticipated Reserve Margin from 32% last year to 27% this year. For this summer's assessment, WECC's study for the Northwest region resulted in small amounts of EUE, increasing from zero in the previous probabilistic assessment. The study also indicated an LOLH of >0.1 hours/period. The hour of greatest risk occurs around 6:00 p.m. in early September.
- **Texas RE:** The Texas Interconnection is widely at a normal risk level for Summer 2026 due to a 12% jump in anticipated resources for the summer period and a 4.5% decline in projected net internal demand. The lower demand forecast is the result of updated load modeling that reflects the observed behavior of load during peak periods and more demand response from large computational loads. The results of ERCOT's Probabilistic Reserve Risk Model (PRRM) simulation indicate a low risk of declaring an energy emergency alert (EEA) during the risk hour (9:00 p.m. local time). However, the PRRM does not capture the pre-contingency load shedding risk in the Far West region of ERCOT's footprint resulting from rapid growth in both load and resources in this zone. Operational

[2] WSOR-WA

challenges could arise in Far West Texas during periods of high demand combined with low wind output and absence of solar generation. Under these conditions, transmission constraints in the Far West Texas zone may become binding. Price-responsive demand is expected to help reduce transmission congestion and maintain balance with supply during tight conditions. In addition, ERCOT and transmission service providers have developed mitigation measures to address these constraints by incorporating dynamic line ratings that account for solar irradiance along with ambient temperatures. Operating procedures that include involuntary load curtailment are in place to maintain system operating limits when needed. In September 2025, two new thermal cascading Interconnection reliability operating limits (IROL) became effective in the Far West region of ERCOT's footprint.



Seasonal Risk Assessment Summary	
High	Potential for insufficient operating reserves in normal peak conditions
Elevated	Potential for insufficient operating reserves in above-normal conditions
Normal	Sufficient operating reserves expected

Figure 1: Summer Reliability Risk Area Summary

Other Key Reliability Highlights

- **Weather services are expecting an El Niño weather pattern to influence the weather outlook for the 2026 Summer period.**[3] El Niño weather patterns can suppress Atlantic hurricanes, which are a major reliability consideration for the Gulf Coast and Southeast United States. Temperature and precipitation forecasts for the coming summer show a higher likelihood of hotter-than-normal temperatures in the U.S. South and West and cooler-than-normal temperatures in the upper Midwest and parts of the Northeast (see Figure 2). Wetter-than-normal conditions could alleviate drought severity in the Gulf Coast, but the U.S. Northwest is still expected to see drier-than-normal conditions,[4] starting with sub-average snowpack[5] heading into spring that can impact the availability of hydropower units in a region that relies heavily on hydro-fueled electricity generation. In Canada, higher-than-normal temperatures are expected across the country, with the greatest likelihood residing in northeast and southwest Canada. Snowpack in Canada is generally in average conditions. British Columbia has experienced below-average snowpack in the southwest part of the province and above-average snowpack in the Columbia and Peace regions. The Review of 2025 Capacity and Energy Performance section describes actual demand and resource levels in comparison with NERC's *2025 SRA* and summarizes 2025 resource adequacy events.

- **A large influx of BPS resources over the past year has outpaced demand and is boosting reserves.** BPS resources for the upcoming summer have jumped by over 58.5 GW with the addition of substantial amounts of solar PV and battery resources and some new natural-gas-fired generators. Sixteen of the 23 assessment areas have increased available capacity ahead of summer. Solar PV is the leading type of new resource (+30.5 GW nameplate additions, contributing an additional 16.4 GW of capacity at peak demand). The addition of solar and batteries, which perform well under more hours of the day during summer than they do in winter, is helping to meet escalating demand and increase reserves in many assessment areas.

- **Strong load growth continues in nearly all assessment areas.** Load growth from data centers and large loads continues to propel North American electricity demand forecasts higher, with an increase in peak demand since Summer 2025 exceeding the change observed from the prior summer. Aggregated peak demand across all assessment areas has increased by over 11 GW since 2025. The level of growth exceeds the year-on-year rise of 10 GW that preceded Summer 2025. The largest increases are in parts of the U.S. West. WECC-Southwest saw the largest year-on-year increase in net internal demand at +9.5%, followed by WECC-Northwest with +4.6% and WECC-Basin with 3.8%. Overall, 19 out 23 assessment areas saw demand increases from the *2025 SRA* projections.

- **Large computational and other large loads pose operational challenges for the upcoming summer.** Recent events of unexpected disconnections underscore the need for operational readiness for the upcoming summer. For example, the Eastern and ERCOT Interconnections have observed load-reduction events with each Interconnection experiencing approximately 1,500 MW of voltage-sensitive load reduction.[6] The event in the Eastern Interconnection was primarily attributed to data centers and other power electronic loads (PEL) transferring load to backup generation, which caused frequency overshoot and high voltages. The ERCOT Interconnection event involved many different types of loads of varying sizes reducing consumption during an extended low-voltage period in West Texas due to a protection system misoperation. These load-reduction events highlight some of the potential risks posed by large loads utilizing the BPS and why NERC is closely examining this issue. NERC issued a Level 3 essential actions alert related to large loads[7] as well as a reliability guideline regarding risk mitigation for emerging large loads.[8]

- **Battery resource additions help maintain stable frequency on the grid.** Since last summer, over 16 GW of nameplate battery storage capacity has been added to the grid. Texas and the Western Interconnection continue to have the strongest growth in these resources. The *2025 State of Reliability* report noted an upward trend in frequency response capability that can be attributed to the addition of battery storage resources.[9] Charged battery storage resources can respond quickly to the abrupt decline in system frequency that occurs during disturbances and sudden imbalances, helping to maintain the nominal 60 Hz system frequency and prevent equipment damage and system instability. NERC's *2026 State of Reliability* report, to be published in June, will report on this continuing trend of improved grid frequency response.

[3] Climate Prediction Center: ENSO Diagnostic Discussion
[4] Climate Prediction Center: Seasonal Drought Outlook
[5] WSOR-WA
[6] *Incident Review: Considering Simultaneous Voltage-Sensitive Load Reductions*, NERC, January 2025. Available: https://www.nerc.com/pa/rrm/ea/Documents/Incident_Review_Large_Load_Loss.pdf
[7] NERC Level 3 Alert: Computational Load Modeling, Studies, Instrumentation, Commissioning, Operations, Protection, and Control
[8] Risk Mitigation for Emerging Large Loads
[9] NERC State of Reliability reports

- **The overlap of early summer heat and spring maintenance outages can lower operating reserves in the shoulder season and early summer.** March 2026 was the warmest March in the 132 years of recordkeeping in the contiguous United States.[10] The average temperature across the country was 9.4°F above the 20th-century average. Raising the average were at least 10 states in the U.S. West that had their warmest March on record. The widespread heat-dome bled across the border and infused unseasonably warm temperatures into British Columbia as well, with at least five communities in the southern part of the province recording their warmest overnight low temperatures ever observed for the month of March.[11] Some assessment areas in the West have reported that extended lead times for hydro unit overhauls and the limited availability of engineering, procurement, and construction contractors are contributing to longer outage durations that complicate maintenance planning. Longer-than anticipated maintenance periods, in turn, can lead to higher-than-expected calls on electricity imports from neighboring regions. In other areas, there are older sites that may require extensive overhauls, such as generator rewinds that can keep resources out of service for extended periods of time, potentially longer than planned, as discovery work manifests into additional maintenance.
- **Impacts of wind drought (i.e., low wind periods) pose a risk to reliability.** Areas of the North American electric grid continue to experience periods of wind drought or steep wind down-ramping, and installed wind capacity across the BPS is up by 3% year on year. It is critical that areas experiencing these events continue to maintain operational awareness, including accurate forecasts and appropriate operating procedures to mitigate these periods. Additionally, the impact of wind ramp events—particularly down ramp—must be anticipated and planned for such that appropriate resources are ready to replace the energy lost during these conditions. It is not uncommon for areas to experience several thousands of megawatts of wind energy coming off-line during these events. For example, in January 2025, MISO experienced a wind reduction event of 1,600 MW per hour, which also coincided with a solar ramping down and evening load ramp up.[12]

[10] Assessing the U.S. Temperature and Precipitation Analysis in March 2026 | News | National Centers for Environmental Information (NCEI)
[11] Blazing hot: 1,000+ records fall in brutal March heat wave - The Weather Network
[12] *Incident Review: Preparing the Grid for Wind Energy Droughts and Down-Ramps*, https://www.nerc.com/globalassets/our-work/reports/event-reports/incident_review_low_wind_event.pdf

Recommendations

To reduce the risk of electricity shortfalls on the BPS this summer, NERC recommends the following:

- Reliability Coordinators (RC), Balancing Authorities (BA), and Transmission Operators (TOP) in the elevated-risk areas identified in the key findings should take the following actions:
  - Review seasonal operating plans and protocols for communicating and resolving potential supply shortfalls in anticipation of above-normal demand levels.
  - Consider the potential for higher-than-anticipated forced generator outage rates in operating plans due to plant age, operating patterns, or limited pre-seasonal maintenance availability.
  - Employ conservative generation and transmission outage coordination procedures and operate conservatively commensurate with long-range weather forecasts to ensure adequate resource availability. Past system performance reviews noted that early declaration of conservative operations in advance of extreme conditions helped reduce grid congestion and enhance transfer capability.[13]
  - Engage state or provincial regulators and policymakers to prepare for efficient implementation of demand-side management mechanisms called for in operating plans.
- RCs, TOPs, and BAs should review outage coordination processes and policies and consider if adjustments are needed to account for potential above-normal temperatures to extend beyond the traditional summer season. Those same entities should also be prepared to adjust operating plans in early summer for delayed return-to-service of BPS generation and transmission elements.
- BAs should consider the following steps to reduce risks to system balance from conditions that could affect resources or demand for the upcoming summer:
  - **Wind energy:** In areas with ample wind resources, employ proactive operating plans for low-wind events and wind down-ramping events when weather conditions are developing or are uncertain.
  - **Hydro availability and output:** In areas with a predominance of hydro generation in the supply stack, consider in operating plans the potential for low water conditions to affect hydro generation. Coordinate a sufficient supply of alternative resource types and ready necessary demand-side management mechanisms if needed.
  - **Large computational load disconnects:** Be aware of the potential for load reductions from large computational loads in response to system conditions and include conservative practices in operating plans. Refer to NERC's incident reviews for details of recent events involving voltage-sensitive data centers and cryptocurrency mining facilities.[14]

[13] See notable operations practices in Appendix 2 of the *January 2025 Arctic Events System Performance Review | FERC, NERC, and its Regional Entities: A Joint Staff Report*, April 2025.

[14] See Incident Review section of NERC Event Analysis page.

Risk Highlights

Summer Temperature and Drought Forecasts

During the summer season, heat drives peak electricity demand as consumers use more electricity to cool their homes and businesses. March of this year brought record heat for the month and exacerbated concerns over persisting or worsening drought, concerns that gained even more traction following an underwhelming snowpack peak in the Pacific Northwest in April. Assessment area load forecasts account for many years of historical demand data, often up to 30 years, to predict summer peak demand and prepare for more extreme conditions. Peak demand hours may not coincide with the highest risk hours in the summer as the resource mix shifts during a 24-hour cycle, particularly when there are prolonged periods of above-normal temperatures. Coordinating pre-season preparations and maintenance remains critical to avoiding forced outages where possible and mitigating risks to BPS reliability.

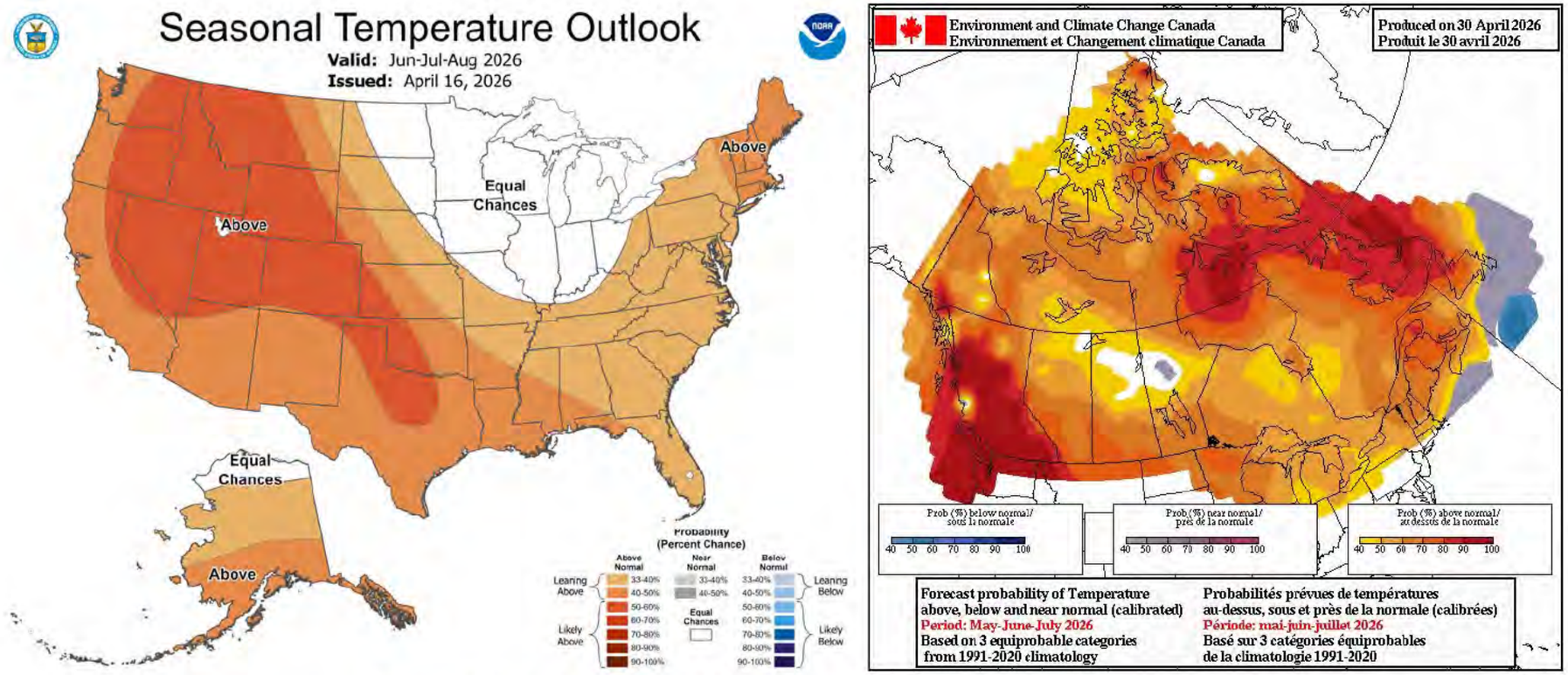


Figure 2: United States and Canada Summer Temperature Outlook[15]

[15] Seasonal forecasts obtained from U.S. National Weather Service and Natural Resources Canada: https://www.cpc.ncep.noaa.gov/products/predictions/long_range/ and https://weather.gc.ca/saisons/prob_e.html

Demand and Resource Trends

Strong load growth from data centers and large loads continues to propel North American electricity demand forecasts higher, with an increase in peak demand since Summer 2025 exceeding the change observed from the prior summer. Resource additions over the past year have outpaced demand growth, contributing to higher reserves.

Summer Electricity Demand Continues to Rise

Aggregated peak demand across all assessment areas has increased by over 11 GW since 2025, comparing forecasted net internal demand (NID). This measure of peak demand is inclusive of the benefits from demand response, which offset total internal demand (TID) (see Figure 3). NID continues to accelerate. The year-on-year increase in peak demand for Summer 2025 was 10 GW—more than double the increase in peak demand from 2023 to 2024.

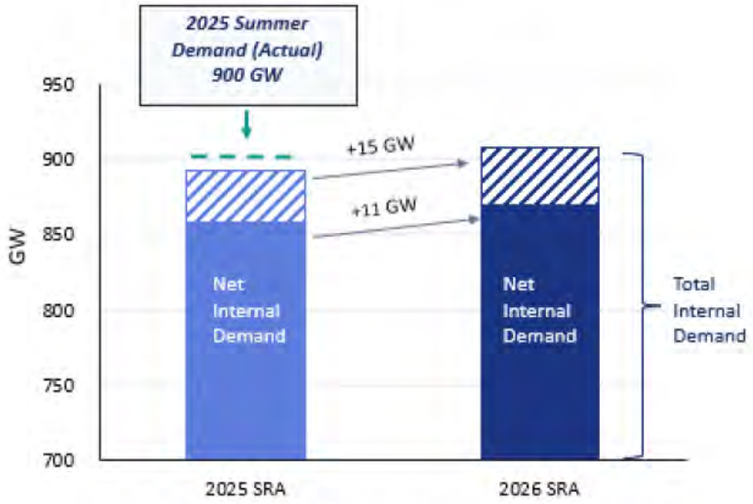


Figure 3: BPS Total and Net Internal Demand
Aggregated Peak Demand from All Assessment Areas

Nearly all assessment areas are experiencing demand growth. Peak demand forecasts have risen since 2025 in 19 of the 23 assessment areas. The largest increases are in parts of the U.S. West. In Canada, all provinces are forecasted to have increases of 2% or more except for Québec, which is forecasting a 1% decline in peak demand. Texas RE-ERCOT is a notable exception to the growth trend this summer. TID in ERCOT declined by 1.9 GW (2.3%), largely driven by updated forecasting that accounts for observed behavior of large computational loads at peak demand. NID, which includes demand response, is 3.7 GW lower (4.6%) compared to last summer because more data centers can be curtailed by grid operators when needed to prevent grid emergencies. A summary of assessment area demand changes is provided in the Net Internal Demand section.

More Resources Available for Summer

BPS resources for the upcoming summer have jumped by over 58.5 GW with the addition of substantial amounts of solar PV and battery resources and some new natural gas-fired generators (see Figure 4). Sixteen of the 23 assessment areas have increased available capacity ahead of summer. Solar PV is the leading type of new resource (+30.5 GW nameplate additions, contributing an additional 16.4 GW of capacity at peak demand). Battery additions account for 14.7 GW in increased on-peak capacity. These resources also help balance variability in solar PV and wind resources, as well as demand fluctuations. Other capacity changes since 2025 amounting to 19 GW are attributed to resource additions of other types as well as changes to generator availability (e.g., completion of extended nuclear generator outages, changes to maintenance plans). The addition of solar and batteries, which perform well under more hours of the day during summer than they do in winter, is helping to meet escalating demand and increase reserves in many assessment areas.

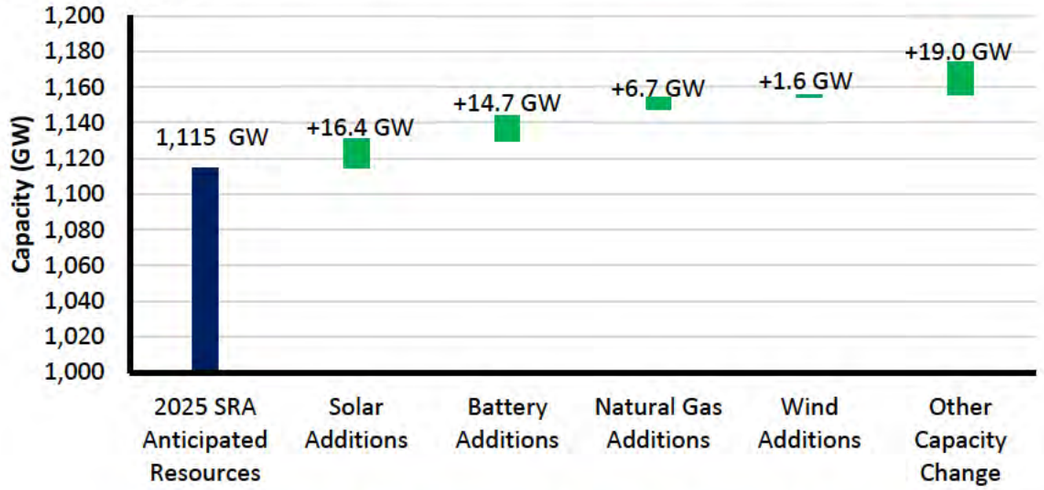


Figure 4: Summer BPS Resource Capacity Change Since 2025

Generators Extended by Federal Power Act Emergency Authority

Starting in 2025, the Department of Energy (DOE) issued emergency orders, pursuant to section 202(c) of the Federal Power Act, requiring that six different power plants maintain operational availability. Thermal generators with diverse fuel sources can be an important electricity resource, especially during winter when solar PV and battery resources are less capable compared to summer months. The DOE has since renewed those emergency orders, extending availability requirements into late May and early June (see Table 1). These plants and units were not incorporated into the anticipated resources of their corresponding assessment areas for Summer 2026 but may be called upon within the orders' time frames.

Table 1: Power Plants Impacted by Department of Energy 202(c) Orders in 2025 and 2026

Assessment Area	Plant Name	Nameplate Capacity (MW)	Summer Capacity (MW)	DOE 202(c) Order Expiration
MISO	J.H. Campbell	782	760	5/18/2026
MISO	F.B. Culley Generating Station	104	90	6/21/2026
MISO	Schahfer Generating Station	847	722	6/21/2026
PJM	Eddystone Generating Station	782	760	5/24/2026
WECC-NW	Centralia Generating Station	730	670	6/14/2026
WECC-RM	Craig Station	446	427	6/28/2026

Risk Assessment Discussion

NERC assesses the risk of electricity supply shortfall in each assessment area for the upcoming season by considering Planning Reserve Margins, seasonal risk scenarios, probability-based risk assessments, and other available risk information. NERC provides an independent assessment of the potential for each assessment area to have sufficient operating reserves under normal conditions as well as above-normal demand and low-resource output conditions selected for the assessment. A summary of the assessment approach is provided in Table 2.

Table 2: Seasonal Risk Assessment Summary

Category	Criteria[1]
High Potential for insufficient operating reserves in normal peak conditions	• Planning Reserve Margins do not meet Reference Margin Levels • Probabilistic indices exceed benchmarks (e.g., LOLH of 2 hours or higher across the season) • Analysis of the risk hour(s) indicates resources will not be sufficient to meet operating reserves under normal peak-day demand with **normal resource scenarios**[2]
Elevated Potential for insufficient operating reserves in above-normal conditions	• Probabilistic indices are low but not negligible (e.g., LOLH above 0.1 hours across the season) • Analysis of the risk hour(s) indicates resources will not be sufficient to meet operating reserves under extreme peak-day demand with **normal resource scenarios**[2] (i.e., typical or expected outage and derate scenarios for conditions) • Analysis of the risk hour(s) indicates resources will not be sufficient to meet operating reserves under normal peak-day demand with **reduced resource scenarios**[3] (i.e., extreme outage and derate scenarios)
Normal Sufficient operating reserves expected	• Probabilistic indices are negligible (e.g., LOLH below 0.1 hours across the season) • Analysis of the risk hour(s) indicates resources will be sufficient to meet operating reserves under normal and extreme peak-day demand and outage scenarios[4]

Table Notes:
[1] The table provides general criteria. Other factors may influence a higher or lower risk assessment.
[2] **Normal resource scenarios** include planned and typical forced outages as well as outages and derates that are closely correlated to the peak demand.
[3] **Reduced resource scenarios** include planned and typical forced outages and low-likelihood resource scenarios, such as extreme low-wind scenarios, low-hydro scenarios during drought years, or high thermal outages when such a scenario is warranted.
[4] Even in normal risk assessment areas, extreme demand and extreme outage scenarios that are not closely linked may indicate risk of operating reserve shortfall.

Assessment of Planning Reserve Margins and Operational Risk Analysis

Anticipated Reserve Margins, which provide the Planning Reserve Margins for normal peak conditions, as well as reserve margins for seasonal risk scenarios of more extreme conditions are provided in Table 3.

Table 3: Seasonal Risk Scenario On-Peak Reserve Margins

Assessment Area	Anticipated Reserve Margin	Anticipated Reserve Margin with Typical Outages	Anticipated Reserve Margin with Higher Demand, Outages, Derates in Extreme Conditions
MISO	31.1%	21.6%	3.8%
MRO-Manitoba	13.2%	9.5%	4.3%
MRO-SaskPower	29.2%	23.2%	7.3%
MRO-SPP	26.8%	21.4%	3.8%
NPCC-Maritimes	83.8%	73.4%	53.3%
NPCC-New England	14.0%	4.0%	-0.9%
NPCC-New York	34.2%	15.0%	7.5%
NPCC-Ontario	32.4%	32.4%	12.3%
NPCC-Québec	34.5%	16.4%	7.3%
PJM	26.2%	16.1%	3.8%
SERC-C	18.9%	13.9%	5.6%
SERC-E	26.3%	17.4%	10.3%
SERC-FP	25.8%	20.7%	13.6%
SERC-SE	36.9%	33.1%	24.7%
TRE-ERCOT	67.9%	60.2%	20.4%
WECC-AB	32.3%	28.2%	9.1%
WECC-Basin	37.6%	34.9%	11.5%
WECC-BC	40.5%	40.0%	9.6%
WECC-Cal	55.6%	54.3%	17.0%
WECC-Mex	32.5%	25.5%	11.0%
WECC-NW	26.9%	25.2%	8.8%
WECC-RM	51.9%	49.2%	21.5%
WECC-SW	48.1%	44.7%	25.2%

Seasonal risk scenarios for each assessment area are presented in the Regional Assessments Dashboards section. The on-peak reserve margin and seasonal risk scenario charts in each

dashboard provide potential summer peak demand and resource condition information, as well as risk hour resource condition information for areas where the risk hour differs from the peak demand hour. The reserve margins on the right side of the dashboard pages provide a comparison to the previous year's assessment. The seasonal risk scenario charts present deterministic scenarios for further analysis of different demand and resource levels with adjustments for normal and extreme conditions. The assessment areas determined the adjustments to capacity and peak demand based on methods or assumptions that are summarized in the seasonal risk scenario charts; more information about these dashboard charts is provided in the Data Concepts and Assumptions section.

The seasonal risk scenario charts can be expressed in terms of reserve margins: In Table 3, each assessment area's Anticipated Reserve Margins are shown alongside the reserve margins for a typical generation outage scenario (where applicable) and the extreme demand and resource conditions in their seasonal risk scenario.

Highlighted in orange are the areas identified as having resource adequacy or energy risks for the summer in the Key Findings section. The typical outage reserve margin includes anticipated resources minus the capacity that is likely to be on maintenance or forced outage during peak demand conditions. If the typical maintenance or forced outage margin is the same as the Anticipated Reserve Margin, it is because an assessment area has already factored typical outages into the anticipated resources. The extreme conditions margin includes all components of the scenario and represents the most severe operating conditions of an area's summer risk scenario. Note that any reserve margin below zero indicates that the resources fall below demand in the scenario.

In addition to the peak demand and seasonal risk hour scenario charts, the assessment areas provided a resource adequacy risk assessment that was probability-based for the summer season. Results are summarized in Table 4. The risk assessments account for the hour(s) of greatest risk of resource shortfall. For most areas, the hour(s) of risk coincides with the time of forecasted peak demand; however, some areas incur the greatest risk at other times based on the varying demand and resource profiles. Various risk metrics are provided and include LOLE, LOLH, EUE, and the probabilities of an EEA occurrence.

Energy Emergency Alerts

Extreme generation outages, low resource output, and peak loads similar to those experienced in wide-area heat events and the heat domes experienced in western parts of North America during the last three summers are ongoing reliability risks in certain areas for Summer 2026. When forecasted resources in an area fall below expected demand and operating reserve requirements, BAs may need to employ operating mitigations or EEAs to obtain the capacity and energy necessary for reliability. A description of each EEA level is provided below.

EEA Levels

EEA Level	Description	Circumstances
EEA1	All available generation resources in use	• The BA is experiencing conditions in which all available generation resources are committed to meet firm load, firm transactions, and reserve commitments and is concerned about sustaining its required contingency reserves. • Non-firm wholesale energy sales (other than those that are recallable to meet reserve requirements) have been curtailed.
EEA2	Load management procedures in effect	• The BA is no longer able to provide its expected energy requirements and is an energy-deficient BA. • An energy-deficient BA has implemented its operating plan(s) to mitigate emergencies. • An energy-deficient BA is still able to maintain minimum contingency reserve requirements.
EEA3	Firm load interruption is imminent or in progress	• The energy-deficient BA is unable to meet minimum contingency reserve requirements.

Table 4: Probability-Based Risk Assessment		
Assessment Area	**Type of Assessment**	**Results and Insight from Assessment**
MISO	Planning Year 2026–2027 LOLE Study Report	MISO's values for LOLH and EUE are taken from the noted assessment report, where the annual LOLE was set at 1 day in 10 years or 0.1 LOLE but equated to 0.076 LOLE for the summer. For Summer 2026, LOLH is 0.235 hrs/year and EUE is 983.8 MWH/year for the Reference Margin Level. Expectations for load loss and unserved energy are less than these amounts because MISO's resources are above the Reference Margin Level.
MRO-Manitoba	2024 and 2025 NERC Probabilistic Assessment (ProbA)	Manitoba Hydro's probability-based resource adequacy risk assessments for the summer season display risk when hydro flow conditions are low and load is higher than expected. Based on the analysis that was conducted for the 2024 and 2025 ProbA, this risk was considered low as normalized EUE was less than 2 parts per million and LOLH was less than 0.2 hrs/year.
MRO-SaskPower	Probability-based capacity adequacy assessment Summer 2026	SaskPower conducted a probability-based capacity adequacy assessment for the 2026 Summer season. This assessment considered uncertainties in load forecasts, wind forecasts, and forced generation outages to calculate the expected number of hours with energy deficiencies (LOLH). LOLH equated to 0.09 hrs/season, and the month of highest risk has shifted from June to September, when the system experiences the largest uncertainties in load and generator availability forecasts. September risk makes up over 50% of summer season risk within this assessment area. SaskPower indicated that in extreme conditions, it may have to use short-term power transfers from neighboring utilities, maintenance rescheduling, and/or demand-response programs to prevent energy shortfall.
MRO-SPP	SPP East Assessment Area and 2024 NERC Probabilistic Assessment (ProbA)	Based on SPP East's probabilistic assessment and the 2024 NERC ProbA, risk observed in summer 2026 was minimal. Risk hours that materialized during simulations occurred during late afternoon and early evening periods and were driven by high demand and low wind conditions.
NPCC	NPCC conducted an all-hour probabilistic assessment that consisted of a base case and several more severe scenarios examining low resources and higher loads. The highest peak load scenario has a 7% probability of occurring.	NPCC Regional Entity assesses that there will be an adequate supply of electricity across the Regional Entity this summer. Necessary strategies and procedures are in place to deal with operational challenges and emergencies as they may develop. Preliminary results of the probabilistic analysis by assessment area are below. NPCC anticipates releasing the assessment in May.
NPCC-Maritimes		The preliminary results of NPCC's probabilistic assessment indicate that the Maritimes Area is not expected to require use of its established operating procedures designed to mitigate resource shortages during Summer 2026 based on a probabilistic-based assessment. The Maritimes Area did not demonstrate any measurable amounts of cumulative LOLE, LOLH, or EUE risks, and established operating procedures were sufficient to maintain a balance over the May–September summer period for all the scenarios modeled.
NPCC-New England		The preliminary results[16] of NPCC's probabilistic assessment indicate that use of New England's established operating procedures are sufficient to maintain a balance between electricity supply and expected 50/50 demand if needed to mitigate resource shortages. Preliminary cumulative LOLE (days/season), LOLH (hours/season), and EUE (MWh/season) risks were reported as negligible over the summer May to September period for the expected load with expected resources scenario. Under an extreme scenario, the estimated cumulative LOLE risk is 0.343 days/period, with associated LOLH of1.178 hours/period and EUE of 628 MWh/period with the highest risk occurring in June, with some in July and August.

[16] Based on preliminary runs from March 31, 2026

Table 4: Probability-Based Risk Assessment

Assessment Area	Type of Assessment	Results and Insight from Assessment
NPCC-New York		The preliminary results of NPCC's probabilistic assessment indicate that use of New York's established operating procedures are sufficient to maintain a balance between electricity supply and expected 50/50 demand if needed to mitigate resource shortages during Summer 2026 with less than 0.017 days of LOLE, 0.042 hours of LOLH, and 20 MWh of EUE, which is below elevated risk criteria under the scenario of highest peak load and reduced resource conditions; the estimated cumulative risk reached 0.655 days of LOLE, 2.004 hours of LOLH, and 1,262 MWh of EUE, with the greatest risks occurring in July and August.
NPCC-Ontario		The preliminary results of NPCC's probabilistic assessment indicate that operating procedures are not needed to maintain a balance between electricity supply and demand. Even under peak load and low-resource conditions, the risk of LOLE remained negligible. This stability is supported by nearly 1,100 MW of new capacity from recent gas facility upgrades and storage projects. Consequently, no emergency operating procedures were required to maintain the balance between supply and demand.
NPCC-Québec		The preliminary results of NPCC's probabilistic assessment indicate that Québec area is not expected to require use of its operating procedures designed to mitigate resource shortages during Summer 2026 based on a probabilistic-based assessment. Québec did not demonstrate any measurable amounts of cumulative LOLE, LOLH, or EUE risks over the May–September summer period for all the scenarios modeled since the system is winter peaking. The Québec area expects to be able to help other areas if needed.
PJM	2023 PJM Reserve Requirement Study (RRS)	The RRS analyzed a wide range of load scenarios (low, regular, and extreme) as well as multiple scenarios for system-wide unavailable capacity due to forced outages, maintenance outages, and ambient derations. During extreme high temperatures that can cause record demand, PJM anticipates the need for demand-response resources to help reduce load at times this summer. PJM is forecasting 26% installed reserves (including expected committed demand response), which is above the reserve requirement margin of 18.6% necessary to meet the 1-day-in-10-years LOLE criterion.
SERC	Probabilistic resource adequacy assessment for the 2026 Summer season	SERC performed a probabilistic resource adequacy assessment for the summer season (June–September) using the PowerGEM SERVM model. The analysis is based on an 8,760 hourly model with 5,375 Monte Carlo simulations per hour and incorporates data across 43 historical weather years (1980–2022), load forecast uncertainty, generator forced outages, power transfer between SERC assessment areas, and variable energy resource performance.
SERC-Central		Results from the summer 2026 probabilistic risk assessment indicate that resources will be sufficient to meet projected demand and do not exhibit any EUE or LOLH.
SERC-East		Simulations performed show that small amounts of EUE materialized in a single summer evening hour under a high-stress scenario involving elevated load, reduced solar output during the evening ramp, and coincident generator outages. The magnitude and frequency of the event are low and do not indicate a broader resource adequacy concern.
SERC-Florida Peninsula		No EUE or LOLH materialized within SERC-Florida Peninsula across all simulations, which resulted in an implied LOLE of approximately zero. These results indicate that available resources are sufficient to meet projected demand under modeled conditions.
SERC-Southeast		The probabilistic assessment did not identify any loss of load events for SERC-Southeast during the Summer 2026 season. EUE and LOLH were both zero across all simulation hours.
Texas RE-ERCOT	ERCOT probabilistic assessment using the PRRM	The simulation indicates low risk of having to declare an EEA for hour 21, the highest risk hour for the peak load day in August (which is also the expected summer peak load day) with a probability of declaring an EEA of 0.43%. This is categorized by ERCOT as "low risk" per its criteria of hourly EEA probability that is equal to or less than 10%. For the *2025 SRA*, ERCOT reported EEA declaration probability for hour ending 21 of 3.1%. The large decrease in EEA probabilities is due to the addition of 8,780 MW of BESS capacity in 2025 and 2,677 MW more as of March 2026.

Table 4: Probability-Based Risk Assessment		
Assessment Area	**Type of Assessment**	**Results and Insight from Assessment**
WECC	Probabilistic resource adequacy assessment for the 2026 Summer season	For the 2026 SRA, WECC, for the first time, performed a probabilistic resource adequacy assessment using the PowerGEM SERVM model based on an 8,760 hourly model that incorporates data across 43 historical weather years, load forecast uncertainty, generator forced outages, power transfers, and variable energy resources shapes. With this shift, WECC opted to default to the NERC defined Reference Margin Level and change its reporting to reflect the different data construct and reporting of results.
WECC-AB		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC–Basin		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC-BC		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC-CA		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC-Mex		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC-RM		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.
WECC-NW		WECC's probabilistic analysis showed EUE at 2.7 MWh and LOLH of 0.1 hours weighted average under a range of weather scenarios for demand and energy availability conditions.
WECC-SW		WECC's probabilistic analysis showed no LOLH or EUE under a range of demand and energy availability conditions.

Regional Assessments Dashboards

The following assessment area dashboards and summaries were developed based on data and narrative information collected by NERC from the six Regional Entities on an assessment area basis. Guidelines and definitions are in the Data Concepts and Assumptions table. On-peak reserve margin bar charts show the Anticipated Reserve Margin compared to a Reference Margin Level that is established for the areas to meet resource adequacy criteria. Prospective Reserve Margins can give an indication of additional on-peak capacity but are not used for assessing adequacy. The operational risk analysis shown in the following regional assessments dashboard pages provides a deterministic scenario for understanding how various factors that affect resources and demand can combine to impact overall resource adequacy. For each assessment area, there is a risk-period scenario graphic; the left blue column shows anticipated resources (from the Demand and Resource Tables section), and the orange column at the right shows the two demand scenarios of the normal peak net internal demand (from the Demand and Resource Tables section) and the extreme summer peak demand determined by the assessment area. The middle red or green bars show adjustments that are applied cumulatively to the anticipated resources. Adjustments may include reductions for typical generation outages (maintenance and forced not already accounted for in anticipated resources) and additions that represent the quantified capacity from operational tools (if any) that are available during scarcity conditions but have not been accounted for in the SRA reserve margins. Resources throughout the scenario are compared against expected operating reserve requirements that are based on peak load and normal weather. The cumulative effects from extreme events are also factored in through additional resource derates or low-output scenarios. In addition, results from a probability-based resource adequacy assessment are shown in the Highlights section of each dashboard. Methods varied by assessment area and provided further insights into the risk conditions forecasted for the summer period.





MISO

The Midcontinent Independent System Operator, Inc. (MISO) is a not-for-profit, member-based organization that administers wholesale electricity markets that provide customers with valued service; reliable, cost-effective systems and operations; dependable and transparent prices; open access to markets; and planning for long-term efficiency. MISO manages energy, reliability, and operating reserve markets that consist of 36 local Balancing Authority and 394 market participants, serving approximately 42 million customers. Although parts of MISO fall in three Regional Entities, MRO is responsible for coordinating data and information submitted for NERC's reliability assessments.

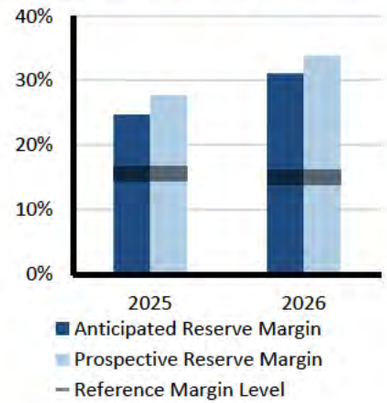
Highlights

- Although MISO's peak load has increased by 2.5 GW from the *2025 SRA*, MISO is not anticipating operational or reliability issues for the 2026 Summer season. Load growth is driven by increased projections of data center load and is expected to accelerate in 2027 and beyond, which may lead to increased reliability risk in the future if resource additions cannot keep pace with rising load forecasts.
- MISO's capacity resources have improved since Summer 2025, and new additions are made up of predominantly solar resource installations, along with smaller amounts of natural gas, wind, and battery storage resources. Solar resources are helping the system serve peak load but are shifting risk hours to later in the day where intermittent resource capabilities are low and temperatures are above expected conditions.
- MISO benefits from transmission connections with neighbors to meet extreme weather conditions, and reliance may increase when extreme conditions arise.

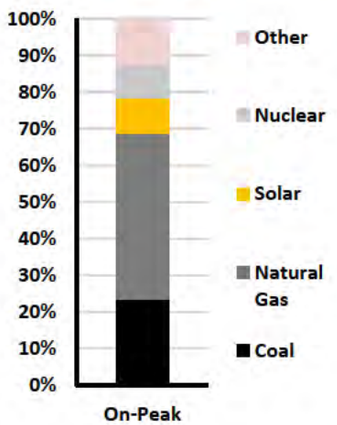
Risk Scenario Summary

Expected resources meet operating reserve requirements for assessed scenarios. Above-normal summer peak load combined with low resource conditions could result in the need to employ operating mitigations (e.g., load-modifying resources) and EEAs. Emergency declarations that can only be called upon when available generation is at maximum capability are necessary to access demand-response resources when operating reserve shortfalls are projected.

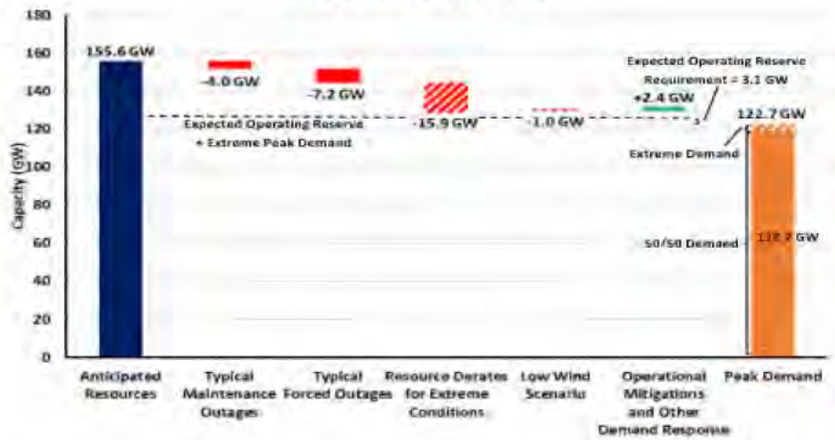
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand forecast (50/50) plus transmission losses.

Maintenance Outages: Rolling three-year average of maintenance outages that occurred during the summer (June-September) peak hour.

Forced Outages: Rolling three-year average of forced outages that occurred during the summer (June–September) peak hour.

Extreme Derates: Rolling three-year average of maintenance and planned outages that occurred across thermal resources during the summer (June-September) peak hour, plus a reduction in solar resource performance during the risk hour.

Operational Mitigations: A total of 2.4 GW capacity resources available during extreme conditions.



MRO-Manitoba Hydro

Manitoba Hydro provides electricity to approximately 601,000 electric customers in Manitoba and provides approximately 291,000 customers with natural gas in Southern Manitoba. The service area is the province of Manitoba, which is 251,000 square miles. Manitoba Hydro is a provincial crown corporation and one of the largest integrated electricity and natural gas distribution utilities in Canada. Manitoba Hydro is winter peaking. Manitoba Hydro is its own Planning Coordinator (PC) and BA. Manitoba Hydro is a coordinating member of MISO. MISO is the RC for Manitoba Hydro.

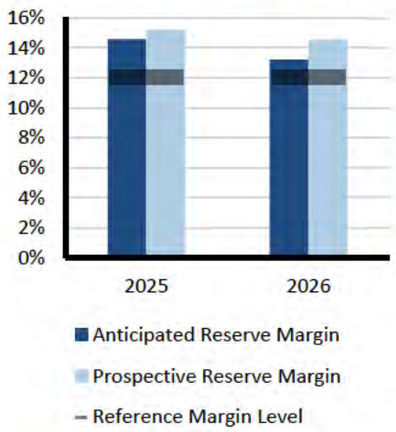
Highlights

- Manitoba Hydro is not anticipating any operational challenges or emerging reliability issues in its assessment area for Summer 2026.
- Manitoba Hydro's demand increase of 2.5% is driven primarily by population and economic growth, including electrification of a large industrial customer to reduce carbon emissions. Currently, new cryptocurrency operations cannot connect in Manitoba due to a moratorium.
- The 2024 ProbA for the 2026 load year shows an EUE of 4 MWh and an LOLH of 0.05 hours.
- Manitoba Hydro's reservoir storage conditions are below average, but winter snowfall has been above average, which should favorably impact spring runoff. The Manitoba Hydro system is designed and operated such that reliable operations can be maintained under extreme drought. Manitoba Hydro expects to reliably supply its internal demand and export obligations, even if extreme drought develops through 2026–2027.
- Manitoba Hydro continues to monitor summer resource adequacy in the MISO area but does not believe that there are significant seasonal reliability issues in MISO or in other neighboring assessment areas that have potential to impact Manitoba Hydro operations for Summer 2026.
- The Anticipated Reserve Margin for Summer 2026 exceeds the 12% Reference Margin Level.

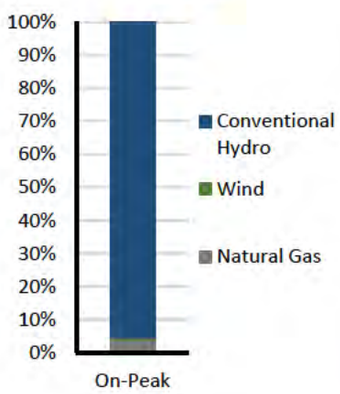
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

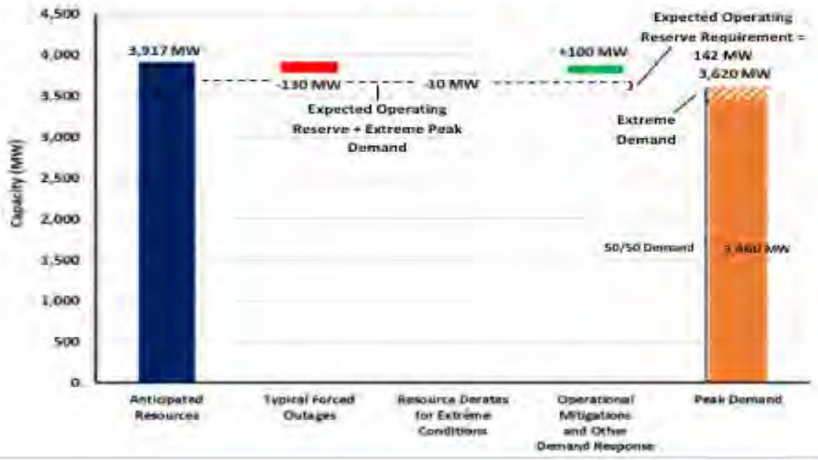
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: 50/50 Demand with allowance for extreme demand based on a 90th percentile extreme weather scenario of 36.0 C (96.8 F).

Forced Outages: Typical forced outages.

Extreme Derates: Summer wind capacity accreditation of 18.2% of nameplate rating based on MISO seasonal analysis. No further wind output derates based on experience; wind farms constitute less than 1% of Manitoba Hydro's available capacity.

Operational Mitigations: Utilize Curtailable Rate Program to manage peak demand; assume 100 MW of non-firm imports available.



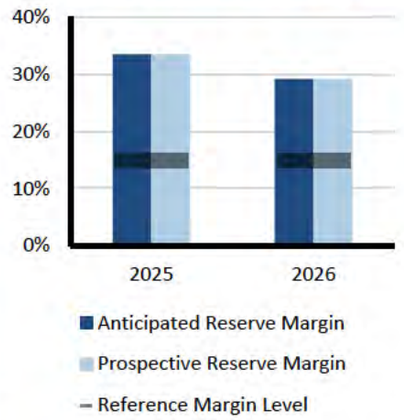
MRO-SaskPower

MRO-SaskPower is an assessment area that covers the Canadian province of Saskatchewan. The province has a geographic area of 651,900 square kilometers (251,700 square miles) and a population of just over 1.1 million people. The Saskatchewan Power Corporation (SaskPower) is the PC and RC for the province of Saskatchewan and is the principal supplier of electricity in the province. SaskPower is a provincial Crown corporation and, under provincial legislation, is responsible for the reliability oversight of the Saskatchewan BES and its interconnections. Overall, SaskPower operates nearly 14,816 circuit-km of transmission lines, 65 high-voltage switching stations, and 191 distribution substations. Peak electricity demand on the SaskPower system currently occurs during the winter season.

Highlights

- Although Saskatchewan is mainly a winter-peaking region, summer can also bring high electricity demand due to extreme heat.
- There is a 1.9% increase in TID from the *2025 SRA* projection. This growth is mainly driven by population growth in the province, expansion projects, reduced self-generation in the industrial sector, and increased electrification.
- SaskPower conducted a probability-based capacity adequacy assessment for the 2026 Summer season. This assessment considered uncertainties in load forecasts, wind forecasts, and forced generation outages to calculate the expected number of hours with energy deficiencies (LOLH). According to probabilistic in-house model, the LOLH for an elevated risk scenario for the 2026 Summer season is 0.09 hours, which is nearly in line with the 0.1 LOLH risk criteria NERC sets for the elevated-risk level. The month with the highest LOLH is September (0.05 hours).
- Based on the planned maintenances, typical forced outages from historical data, and expected renewable generation under the normal and extreme demand conditions, SaskPower does not anticipate any reliability issues during Summer 2026. Under extreme conditions, however, SaskPower may have to use short-term power transfers from neighboring utilities, maintenance outage deferrals, and/or demand-response programs to maintain sufficient supplies.

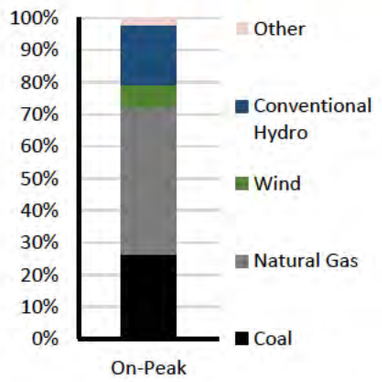
On-Peak Reserve Margin



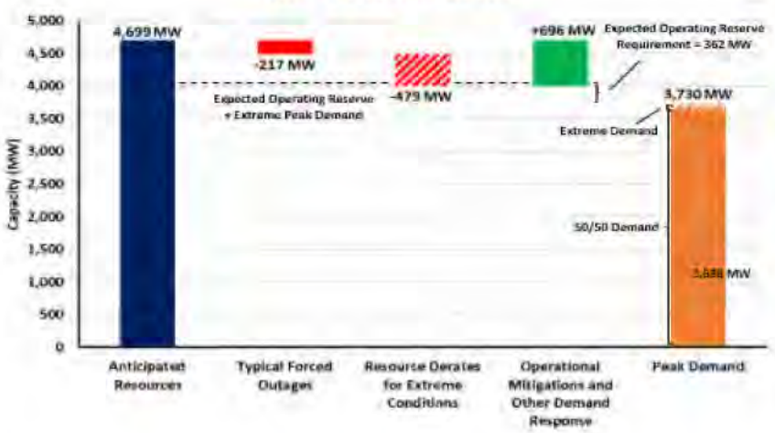
Risk Scenario Summary

Expected resources meet operating reserve requirements under normal peak demand and outage conditions. During extreme summer conditions causing above-normal demand or generator outages, SaskPower can experience operating reserve shortfalls that it would mitigate using rescheduled planned maintenance, short-term power transfers from neighboring utilities, and/or available demand-response programs.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and above-normal scenario based on peak demand with lighting and all consumer loads.

Forced Outages: Based on historic generation stats and SaskPower's forced outage rate models.

Extreme Derates: Based on the wind turbines datasheet and the percentage of the total available wind that will be cut off when the temperature is extremely high (40 degrees and higher).

Operational Mitigations: Estimated non-firm imports and standby generators on 2–7 days' notice. In addition, 176 MWs of demand response can be called upon during operating emergencies.



MRO-SPP

The Southwest Power Pool (SPP) PC footprint covers 546,000 square miles and encompasses all or parts of Arkansas, Iowa, Kansas, Louisiana, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, South Dakota, Texas, and Wyoming. The SPP long-term assessment is reported based on the PC footprint, which touches parts of the MRO Regional Entity and the WECC Regional Entity. The SPP assessment area footprint has approximately 61,000 miles of transmission lines, 756 generating plants, and 4,811 transmission-class substations, and it serves a population of more than 18 million.

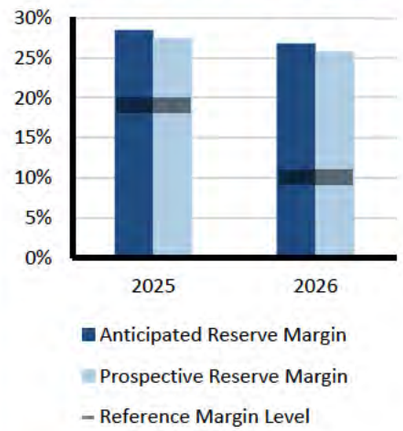
Highlights

- At this time, SPP does not anticipate any operational challenges that would result in reliability risk under normal conditions.
- SPP has operational procedures in place to manage generation outages taken over the summer to ensure appropriate generation is in place for high load. These procedures utilize probabilistic forecasts on factors such as load, generation, and outages to prepare for upcoming peak conditions.
- With heavy reliance on wind generation, SPP's greatest summer risk periods are when wind availability is low. If these low wind periods correspond to peak load conditions, then the combination presents extra risk for the area.
- SPP is projecting a 1.5% increase in forecasted 2026 Summer peak load vs. 2025 Summer peak actuals. Solar PV and energy storage continue to grow rapidly.

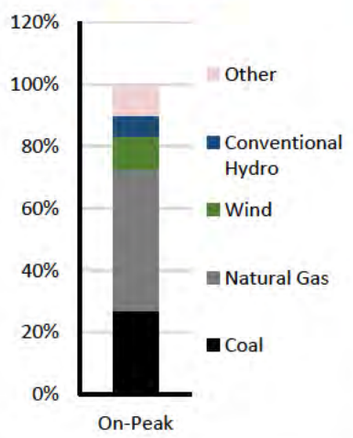
Risk Scenario Summary

Expected resources are sufficient to meet operating reserve requirements under normal peak-demand and outage scenarios. A combination of higher-than-average demand or lower-than-expected wind generation could result in the need for operating mitigations (e.g., demand response and transfers from neighboring systems), including resource advisories and EEAs, where appropriate.

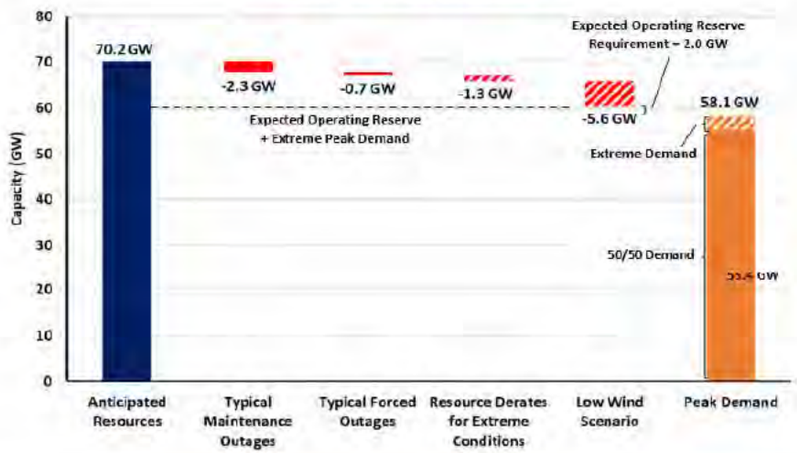
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and extreme demand is a 4.9% increase from net internal demand.

Maintenance and Forced Outages: Represent five-year historical averages; calculated from SPP's generation assessment process.

Extreme Derates: Additional unavailable capacity from operational data at high-demand periods.

Low Wind Scenario: Derates reflecting an average low-wind day in the summer.



NPCC-Maritimes

NPCC-Maritimes is an assessment area that covers the Canadian Maritime provinces—New Brunswick, Nova Scotia, and Prince Edward Island—and the northernmost portion of the U.S. state of Maine. The area covers approximately 150,000 square kilometers (58,000 square miles) and has a total population of nearly 1.9 million people. The New Brunswick Power Corporation (NB Power) is the BA for New Brunswick, Prince Edward Island, and the northern portion of Maine. Nova Scotia Power Inc. (NSPI) is the BA for Nova Scotia. NB Power's system is electrically interconnected with NPCC-Québec and NPCC-New England, and the electric systems in the provinces of Nova Scotia and Prince Edward Island have ties with New Brunswick but no direct ties with other assessment areas. Peak electricity demand in NPCC-Maritimes occurs during the winter season.

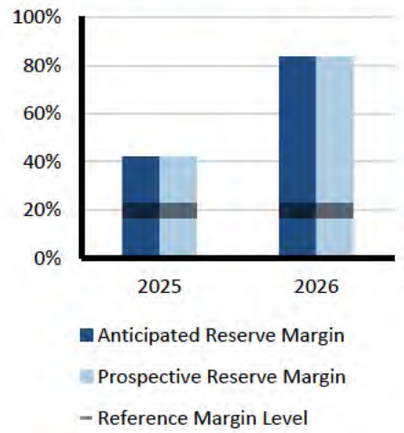
Highlights

- There are no anticipated issues for the Maritimes in the upcoming summer assessment period with sufficient firm capacity to meet the forecast peak demand.
- The Maritimes has not identified any operational issues that are expected to impact system reliability. Emergency operations and planning procedures are in place to mitigate operational events.
- Maritimes summer on-peak reserve margin is largely driven by resource maintenance outages. As a result of fewer planned outages (~1,000 MW) at peak, the 2026 on-peak reserve margin doubled from the 2025 SRA (84% compared to 42%).
- The preliminary results of NPCC's probabilistic assessment indicate that the Maritimes area is not expected use their operating procedures during the Summer of 2026 to maintain sufficient supply. The Maritimes area did not demonstrate any measurable amounts of cumulative LOLE, LOLH, or EUE risks, and established operating procedures were sufficient to maintain an energy balance over the May–September summer period for all the scenarios.
- Although margins can go negative in May under the high load (above 90:10) scenario, there are opportunities to purchase non-firm energy through the interconnections with neighboring control areas as this scenario does not coincide with either the Maritimes or the NPCC summer peaks.
- Dual-fueled units will have sufficient supplies of heavy fuel oil (HFO) on site to enable sustained operation in the event of natural gas supply interruptions.

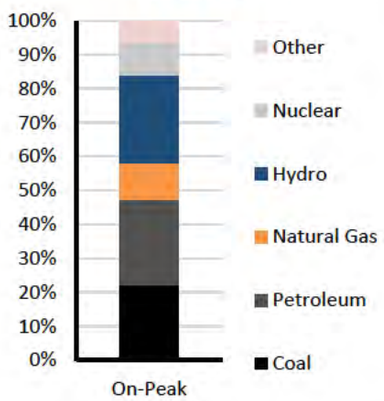
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and above 90/10 extreme demand forecast.

Forced Outages: Based on historic operating experience.

Extreme Derates: A low-likelihood scenario comprising a 100% derate of solar and storage, a 50% derate of wind (calm weather), and a 50% derate to natural gas (fuel supply issue).

Operational Mitigations: Changes to system operating conditions in the Maritimes area (i.e., transmission and/or generator outages) will be managed using short-term operating procedures (STOP), which would outline any special operating conditions for the operators.



NPCC-New England

NPCC-New England is an assessment area consisting of the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont that is served by ISO New England (ISO-NE) Inc. ISO-NE is a regional transmission organization that is responsible for the reliable day-to-day operation of New England's bulk power generation and transmission system, administration of the area's wholesale electricity markets, and management of the comprehensive planning of the regional BPS.

The New England BPS serves approximately 14.5 million customers over 68,000 square miles.

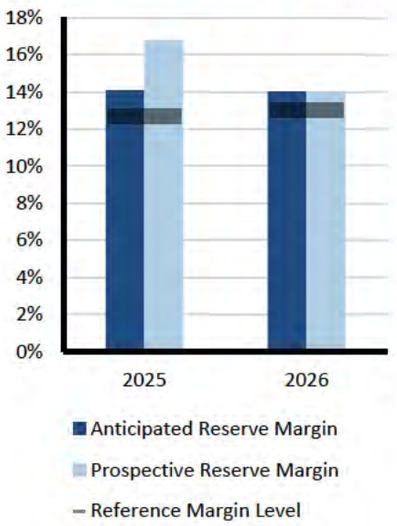
Highlights

- The New England area Anticipated Reserve Margin of 14% marginally exceeds the Reference Margin Level of 13%, avoiding a shortfall between anticipated resources and the reference level for reserves. There is, however, a 41 MW shortfall if resource additions are not included.
- ISO-NE assumes a net interchange of 409 MW, which is capacity-backed; however, ISO-NE typically imports around 3,000 MW during summer peak load conditions.
- ISO-NE does not anticipate any operational challenges or reliability issues for the upcoming 2026 Summer assessment period and forecasts adequate transmission capability and manageable capacity margins to meet the expected peak demand and operating reserves.
- Since January 2026, New England has added NECEC, a symmetric monopole +/- 320kV HVdc line from the 735 kV Appalaches substation in Québec to a new 345 kV substation, Merrill Road in Lewiston, Maine. NECEC will be used as an "import-only" tie with Hydro Québec and is capable of importing up to 1,200 MW into New England, but only on a non-firm basis for the coming summer.
- A probabilistic assessment was conducted for New England, modeling both NPCC and its neighboring regions. The analysis simulated a base case (50/50 normal demand) alongside a highest peak load scenario, which has a 7% probability of occurrence. The preliminary results of the probabilistic assessment indicate that use of New England's established operating procedures is sufficient to maintain a balance between electricity supply and expected 50/50 demand if needed to mitigate resource shortages during Summer 2026. Under the scenario of highest peak load levels and reduced resource conditions, the estimated cumulative risk reached 0.343 days of LOLE, 1.178 hours of LOLH, and 628 MWh of EUE, with the greatest risks occurring in June and July. The final NPCC 2026 Summer Reliability Assessment will be approved in May 2026.

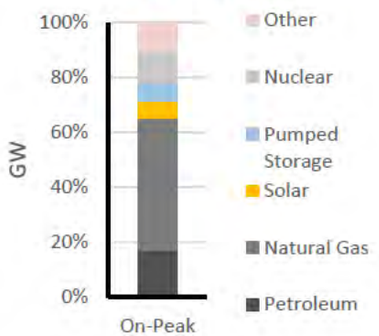
Risk Scenario Summary

The New England area expects to have sufficient resources to meet the 2026 summer peak demand forecast through the use of its established operating procedures and significant imports over its many ties to its neighbors that have historically been able to provide up to 3,000 MW during summer peak load conditions.

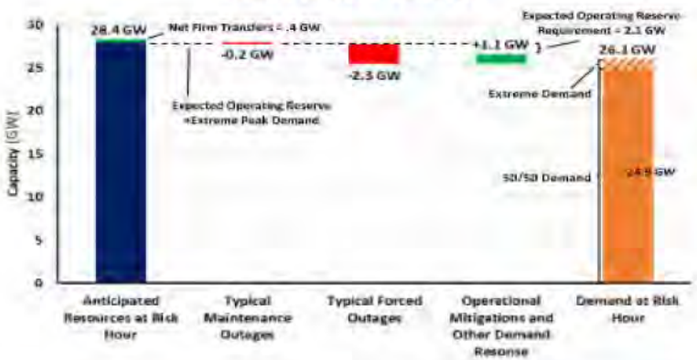
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Forecasted risk hour demand (50/50) and (90/10) extreme demand adder.

Maintenance Outages: Historical average of maintenance outages.

Typical Forced Outages: Based on historical average of forced outages for summer period.

Operational Mitigations: Based on load and capacity relief assumed available from invocation of ISO-NE operating procedures.



NPCC-New York

NPCC-New York is an assessment area consisting of the New York ISO (NYISO) service territory. NYISO is responsible for operating New York's BPS, administering wholesale electricity markets, and conducting system planning. NYISO is the only BA within the state of New York. The BPS in New York encompasses over 11,000 miles of transmission lines and 760 power generation units and serves 20.2 million customers. For this SRA, the established Reference Margin Level is 15%. Wind, grid-connected solar PV, and run-of-river totals were derated for this calculation. However, New York requires load-serving entities to procure capacity for their loads equal to their peak demand plus an installed reserve margin (IRM). The IRM requirement represents a percentage of capacity above peak load forecast and is approved annually by the New York State Reliability Council. The council approved the 2026–2027 IRM at 24.5%.

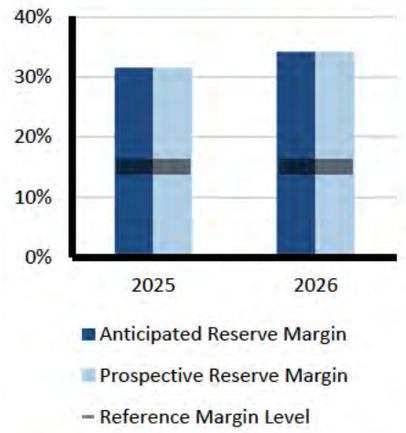
Highlights

- NYISO is not anticipating any operational issues in the New York control area for the upcoming summer.
- Adequate capacity margins are projected for the summer peak, and prospective transactions with neighbors should mitigate reliability concerns. Operating procedures should be sufficient to handle any issues that may occur.
- The preliminary results of the NPCC probabilistic assessment indicate that use of New York's established operating procedures is sufficient to maintain a balance between electricity supply and expected 50/50 demand if needed to mitigate resource shortages during Summer 2026. The expected load and resource scenario resulted in negligible risks over the May to September summer period, with less than 0.017 days of LOLE, 0.042 hours of LOLH, and 20 MWh of EUE.
- In contrast, under the scenario of highest peak load and reduced resources, the estimated cumulative risk reached 0.655 days of LOLE, 1.996 hours of LOLH, and 1,255 MWh of EUE, with the greatest risks occurring in July and August.
- to coordinate extensively with neighboring RCs and BAs to improve situational awareness and vet needs for firm or non-firm transfers to address extreme system conditions

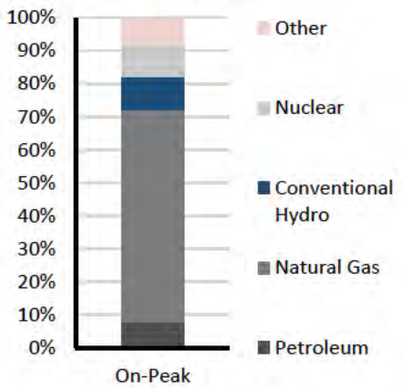
Risk Scenario Summary

The preliminary results of NPCC's probabilistic assessment indicate that New York's established operating procedures are sufficient to maintain a balance between electricity supply and expected demand, if needed, to mitigate shortages during Summer 2026.

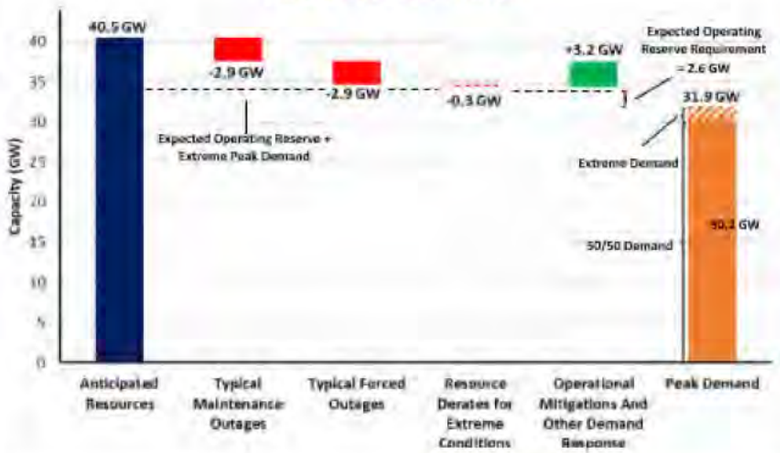
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: The risk period is at the time of peak demand.

Demand Scenarios: Net internal demand (50/50) and (90/10) extreme demand forecast. **Maintenance Outages:** Based on historical performance and the new NYISO capacity accreditation process.

Forced Outages: Based on historical five-year averages.

Extreme Derates: Estimated resources unavailable in extreme conditions.

Operational Mitigations: A total of 3.2 GW based on operational/emergency procedures in area emergency operations manual.



NPCC-Ontario

NPCC-Ontario is an assessment area that covers the Canadian province of Ontario. The province of Ontario covers more than 1 million square kilometers (415,000 square miles) and has a population of over 16 million people. The Independent Electricity System Operator (IESO) is the BA for the province of Ontario. NPCC-Ontario is electrically interconnected with NPCC-Québec, MRO-Manitoba, MISO, and NPCC-New York. Peak electricity demand in NPCC-Ontario occurs during the summer season.

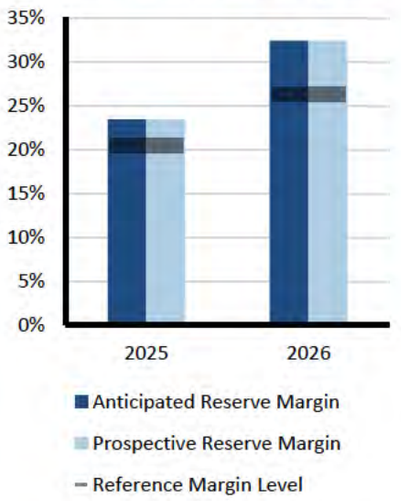
Highlights

- Ontario is well prepared for Summer 2026, and the IESO expects that the electricity system will remain reliable.
- Demand increased 2.7% over last year, driven in part by a rise in certain economic indicators, such as higher total employment, across the forecast horizon. However, uncertainty persists in the current economic environment with Ontario's largest trading partner.
- Existing-certain capacity is 8.4% higher than last year, reflecting the addition of new units. Established resource adequacy policy sets out a competitive strategy for securing new resources in the short, medium, and long terms. Also, Darlington G4 nuclear refurbishment was completed early and will be available for the summer period.
- Net firm capacity transfers increased 30.6% from Summer 2025. Although the capacity auction secured fewer imports for Summer 2026 compared to Summer 2025, IESO has chosen to utilize 300 MW of the 2015 Capacity Sharing Agreement with Hydro-Québec for the period commencing June 1, 2026, and ending September 30, 2026.
- Anticipated resources are projected 9% higher than Summer 2025 due to upgrades at existing natural gas facilities and new energy storage facilities anticipated to be coming on-line this summer.
- The preliminary results of NPCC's probabilistic assessment indicate that operating procedures were not needed to maintain a balance between electricity supply and demand. Even under peak load and low-resource conditions, the risk of LOLE remained negligible. This stability is supported by nearly 1,100 MW of new capacity from recent gas facility upgrades and storage projects. Consequently, no emergency operating procedures were required to maintain the balance between supply and demand.

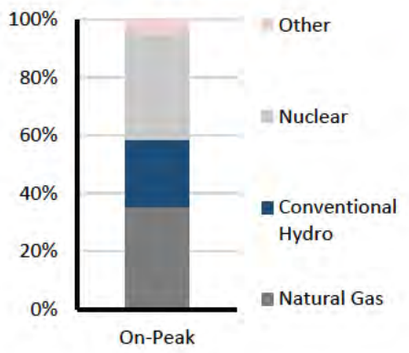
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

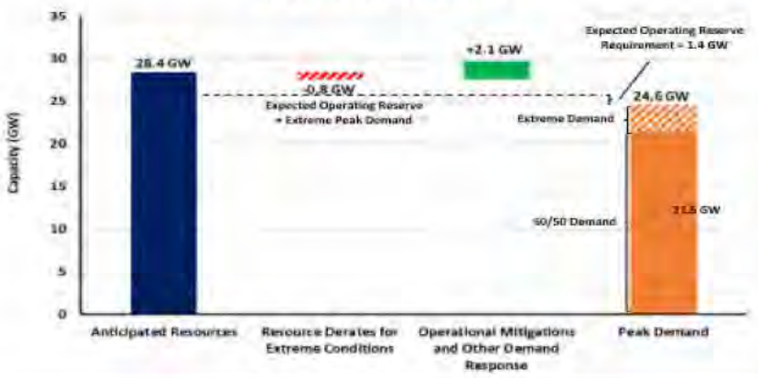
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50 forecast) and highest weather-adjusted daily demand based on 31 years of demand history, and extreme weather represents a 97/3 distribution of probabilistically modeled data.

Extreme Derates: Derived from weather-adjusted temperature ratings of thermal units and adjustments to expected hydro production for low water conditions.

Operational Mitigations: The operational procedures used to mitigate extreme conditions total approximately 2,100 MW for the On-Peak Risk Scenario, consisting of Imports, Public Appeals, and voltage reductions.



NPCC-Québec

NPCC-Québec is an assessment area that covers the Canadian province of Québec. The province of Québec covers over 1.5 million square kilometers (nearly 600,000 square miles) and has a population of nearly 9 million people. Hydro-Québec is the BA for the province of Québec. The Québec BPS is one of the four electric Interconnections in North America. It is a predominantly hydroelectric-generation-based system that is electrically interconnected with NPCC-Ontario, NPCC-New York, NPCC-New England, and NPCC-Maritimes. Peak electricity demand in NPCC-Québec occurs during the winter season.

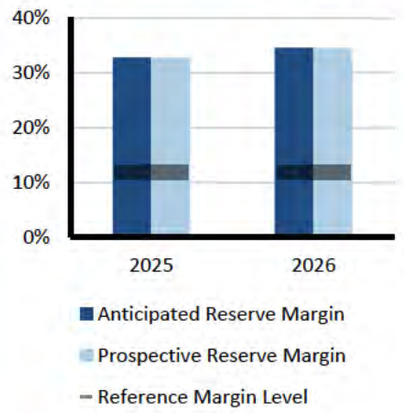
Highlights

- Québec is a winter-peaking hydroelectric system. Despite reduced generation because of reduced runoff in northern Québec since 2023, the Québec area expects no issues in meeting its operational needs this summer.
- Load (NID) is projected to decrease by 1% with respect to 2025.
- Net firm capacity exports have significantly increased (+1,018 MW) this year, as the CHPE is positioned to provide firm capacity to New York for the summer.
- There is a significant change to existing-certain capacity (3.7% or +1,192 MW). Hydro-Québec includes its planned outages in its certain capacity. This year, Hydro-Québec improved its modeling of its outages partially to account for its flexibility in managing outages; notably, the ability to recall certain outages to improve margins during peak events is highlighted.
- The preliminary results of NPCC's probabilistic assessment indicate that Québec area is not expected to require use of operating procedures designed to mitigate resource shortages during Summer 2026. Québec did not demonstrate any measurable amounts of cumulative LOLE, LOLH, or EUE risks over the May–September summer period for all the scenarios modeled since the system is winter peaking. The Québec area expects to be able to help other areas if needed.

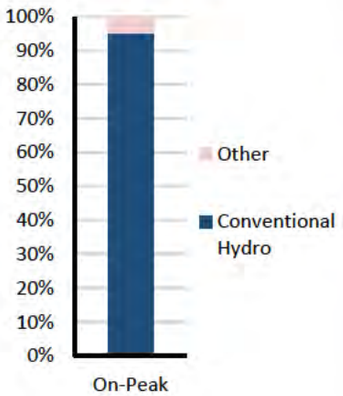
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

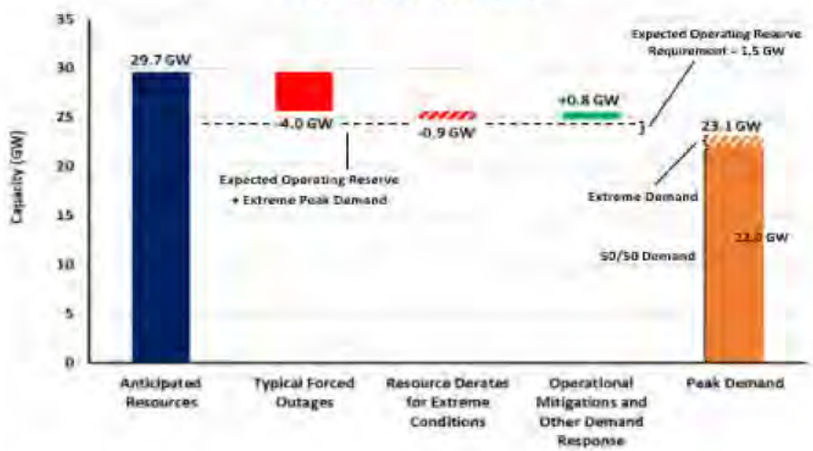
On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenario: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Based on historical data and trending.

Extreme Derates: Estimated resources unavailable in extreme conditions.

Operational mitigations: An operational procedure used to mitigate extreme conditions and not already included in margins is the depletion of some operating reserves by 750 MW.



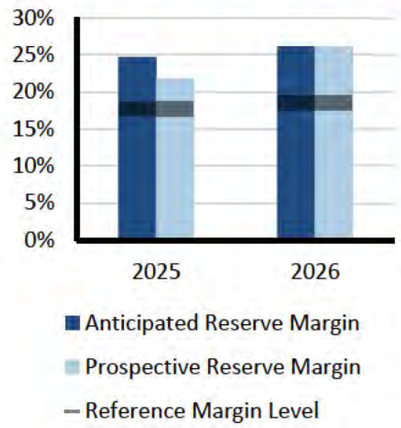
PJM

PJM Interconnection is a regional transmission organization that coordinates the movement of wholesale electricity in all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia, and the District of Columbia. PJM's footprint covers approximately 369,054 square miles and serves more than 67 million people. PJM is the area's BA, Transmission and Resource Planner, Interchange Authority, TOP, Transmission Service Provider, and RC. PJM is electrically interconnected with MISO, NPCC-New York, SERC-Central, and SERC-East. Peak electricity demand in PJM occurs during the summer season.

Highlights

- PJM is expecting a low risk of resources falling below the required reserve requirement during Summer 2026.
- PJM is forecasting ~26% installed reserves (including expected committed demand resources), which is above the PJM reserve requirement margin of 18.6% that is necessary to meet the 1-day-in-10-years LOLE criterion. The highest risk for unserved energy is at peak demand hour.
- If extreme high temperatures are experienced, PJM anticipates the need for demand-response resources to help reduce load.
- New and better load forecasts and advancement of planned resources have improved PJM's reserve margin looking into this summer over previous assessments.
- The LOLH and EUE values reported in the 2024 LTRA for 2026 were 0.12 hours/year and 537.52 MWh/year, respectively. These values corresponded to a 17.8% operable margin (also reported in the 2024 LTRA). Since the expected actual reserve margin for the PJM system is 26% in 2026, the LOLH and EUE values associated with a 26% reserve margin are expected to be lower than those reported in the 2024 LTRA.

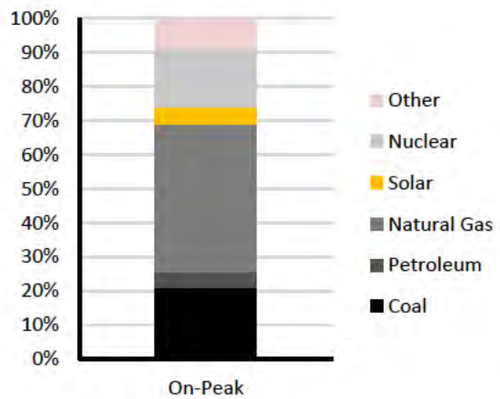
On-Peak Reserve Margin



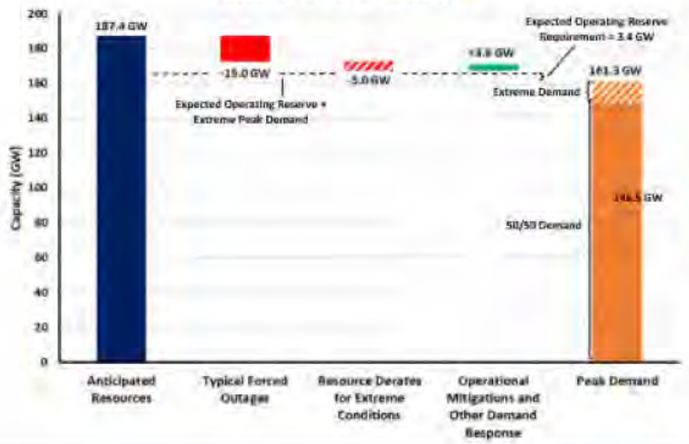
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Based on historical data and trending.

Extreme Derates: Accounts for thermal capacity contributions due to performance in extreme conditions.

Operational Mitigations: A total of 3.6 GW estimated based on operational/emergency procedures. This includes 500 MWs of additional demand response that can be called upon during operating emergencies.



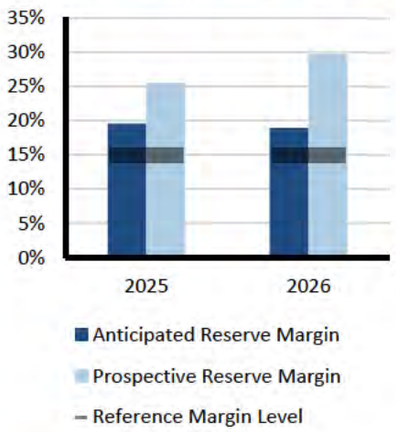
SERC-Central

SERC-Central is an assessment area within the SERC Regional Entity and includes all or portions of Alabama, Georgia, Iowa, Kentucky, Mississippi, Missouri, North Carolina, Oklahoma, Tennessee, and Virginia. SERC-Central is a dual-peaking assessment area, experiencing peak electricity demand during both the summer and winter seasons. The PCs in this subregion include Associated Electric Cooperative Inc., Louisville Gas & Electric/Kentucky Utilities, Owensboro, KY Municipal Utilities, and the Tennessee Valley Authority. Other SERC member entities in this subregion include Brookfield/Smoky Mountain, Memphis Light, Gas and Water Division, and Nashville Electric Service.

Highlights

- No significant reliability concerns were identified.
- Modest load growth (~1–3%) is driven by residential, industrial, and emerging data center demand.
- Increased demand response (DR) results from new demand-side management (DSM) programs and large industrial load enrollments.
- Adequate capacity, transfers, resource assumptions and reserve margins remain sufficient to support reliability.
- Robust operational planning and coordination, with DSM/DR programs providing additional flexibility during peak conditions.
- ProbA results show negligible risk for this summer.

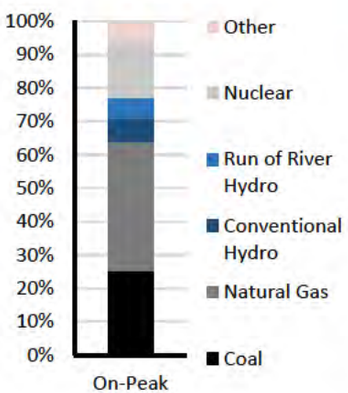
On-Peak Reserve Margin



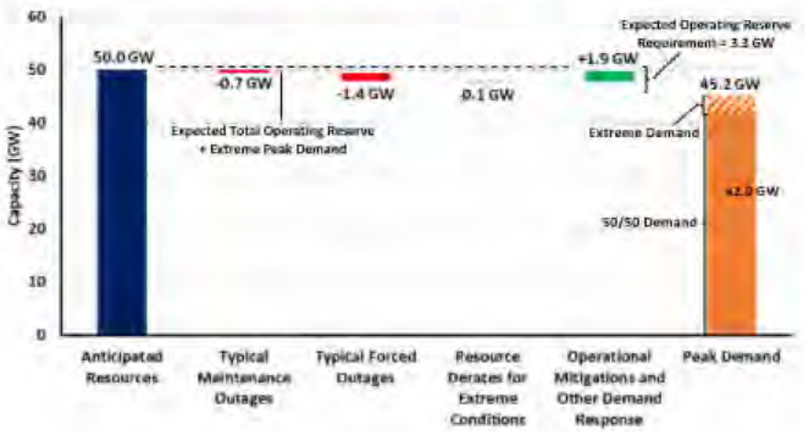
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and extreme demand forecast based on extreme summer weather (equals or exceeds the (90/10) demand forecast).

Maintenance Outages: Adjusted for higher outages resulting from extreme summer temperatures and aggregated on a SERC subregional level.

Forced Outages: Accounts for reduced thermal capacity contributions due to performance in extreme conditions.

Operational Mitigations: 1.9 GW based on operational/emergency procedures.



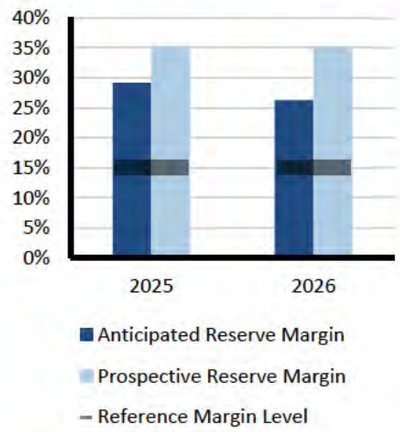
SERC-East

SERC-East is an assessment area within the SERC Regional Entity and includes North Carolina and South Carolina. SERC-East is a winter-peaking assessment area. The PCs in this subregion include Cube Hydro Carolinas LLC, Dominion Energy South Carolina Inc., Duke Energy Carolinas LLC, Duke Energy Progress LLC, and the South Carolina Public Service Authority (Santee Cooper). Other SERC member entities in this subregion include the Cube Hydro Carolinas-Yadkin Division and Southeastern Power Administration.

Highlights

- No significant operational challenges or emerging reliability issues were identified; system conditions remain adequate for Summer 2026.
- Fuel supply, generation availability, and transmission operations are expected to be adequate, with no major outages anticipated to impact reliability.
- Minimal changes are expected in demand and resource mix; reserve margins remain above planning targets despite updated solar/storage accreditation.
- Strong coordination processes and established operating procedures support reliable peak demand management.
- ProbA results show negligible risk for this summer.

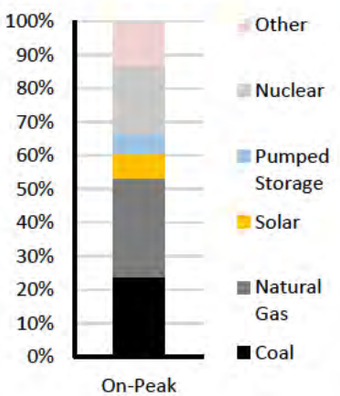
On-Peak Reserve Margin



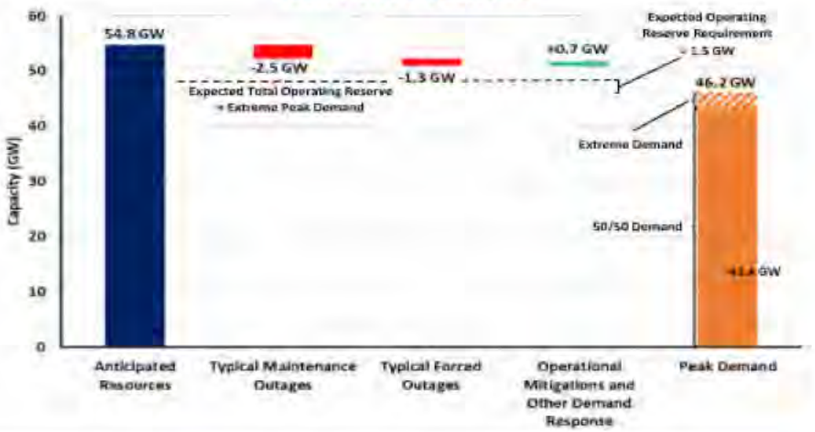
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and extreme demand forecast based on extreme summer weather (equals or exceeds the (90/10) demand forecast).

Maintenance Outages: Adjusted for higher outages resulting from extreme summer temperatures and aggregated on a SERC subregional level.

Forced Outages: Accounts for reduced thermal capacity contributions due to performance in extreme conditions.

Operational Mitigations: A total of 728 MW based on operational/emergency procedures.



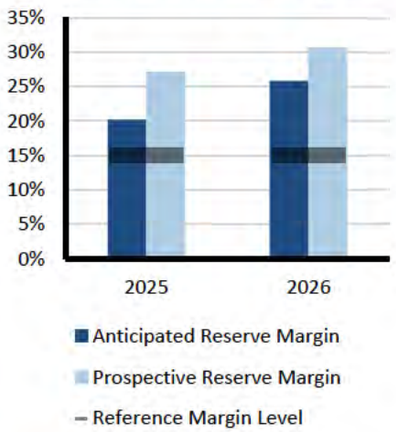
SERC-Florida Peninsula

SERC-Florida Peninsula is an assessment area within the SERC Regional Entity and includes all of Florida. SERC-Florida Peninsula is a summer-peaking assessment area. The PCs in this subregion include Duke Energy Florida LLC, the Florida Municipal Power Agency, Florida Power & Light Company, Florida Reliability Coordinating Council Inc., Gainesville Regional Utilities, the City of Homestead, JEA, Lakeland Electric, the Orlando Utilities Commission, Seminole Electric Cooperative, the City of Tallahassee, and Tampa Electric Company.

Highlights

- No significant operational challenges or emerging reliability issues were identified; system conditions remain stable for Summer 2026.
- There is an adequate demand and capacity outlook, with minimal year-over-year changes and no significant operational risks.
- There is strong resource adequacy, with projected reserve margins (~26%) well above the 15% reference margin.
- DR (~3,350 MW available) and established coordination practices support peak demand and emergency preparedness.
- ProbA results show negligible risk for this summer.

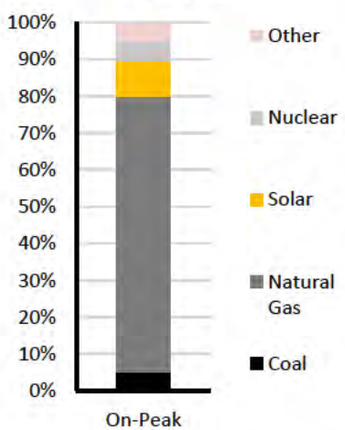
On-Peak Reserve Margin



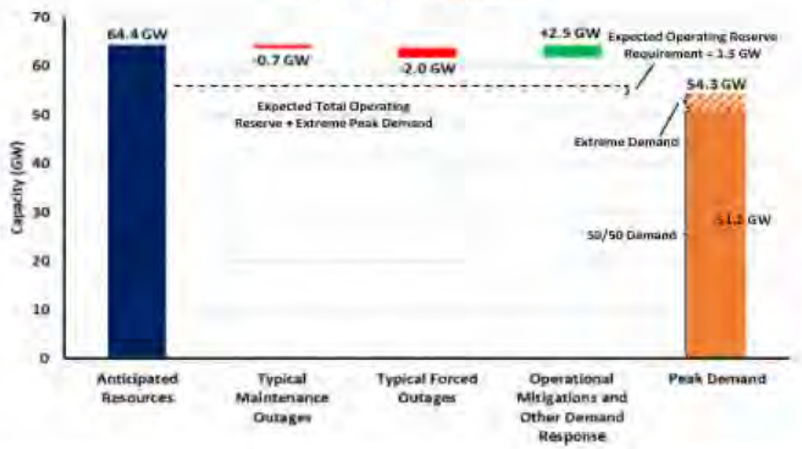
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and extreme demand forecast based on extreme summer weather (equals or exceeds the (90/10) demand forecast).

Maintenance Outages: Adjusted for higher outages resulting from extreme summer temperatures and aggregated on a SERC subregional level.

Forced Outages: Accounts for reduced thermal capacity contributions due to performance in extreme conditions.

Operational Mitigations: A total of 2.5 GW based on operational/emergency procedures.



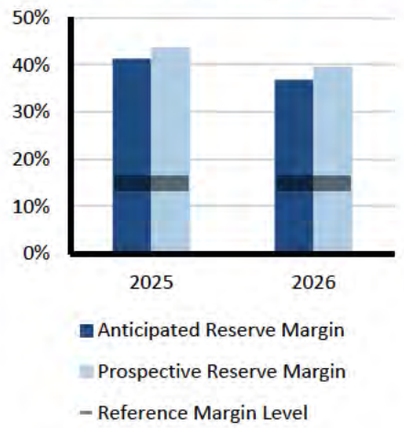
SERC-Southeast

SERC-Southeast is an assessment area within the SERC Regional Entity and includes all or portions of Alabama, Florida, Georgia, and Mississippi. SERC-Southeast is a summer-peaking assessment area. The PCs in this subregion include Georgia Transmission Corporation, the Municipal Electric Authority of Georgia, PowerSouth Energy Cooperative, and Southern Company Services, Inc. - Trans.

Highlights

- No significant reliability risks were identified; fuel supply and generation portfolios remain diverse and adequate.
- Natural gas pipeline constraints and increasing solar penetration present manageable operational considerations, not reliability threats.
- Moderate load growth (~1–3%), driven by economic conditions, residential and commercial expansion, and emerging data center load.
- Limited reliance on DR; existing operating practices and planning processes are sufficient to meet peak demand.
- ProbA results show negligible risk for this summer.

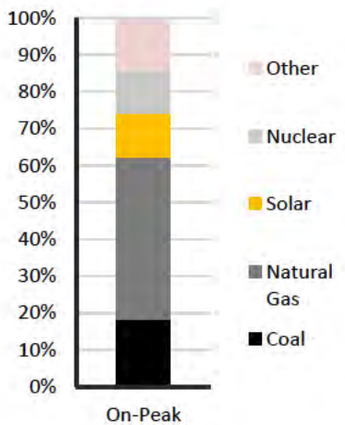
On-Peak Reserve Margin



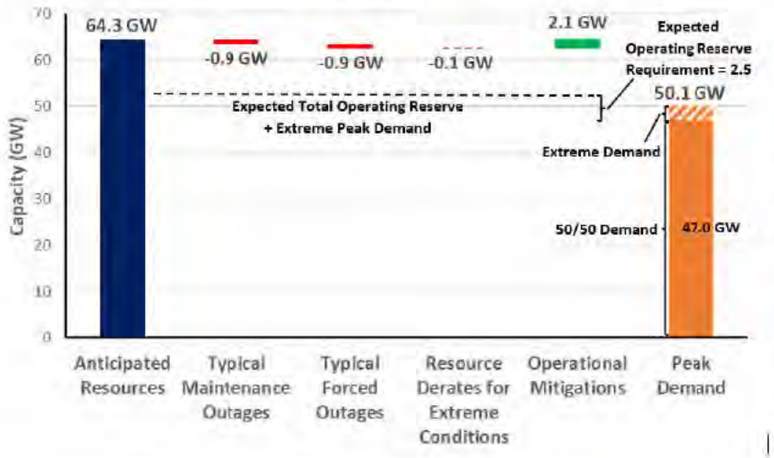
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and extreme demand forecast based on extreme summer weather (equals or exceeds the (90/10) demand forecast).

Maintenance Outages: Adjusted for higher outages resulting from extreme summer temperatures and aggregated on a SERC subregional level.

Forced Outages: Accounts for reduced thermal capacity contributions due to performance in extreme conditions.

Extreme Derates: Estimated resources unavailable in extreme conditions.

Operational Mitigations: A total of 2.1 GW based on operational/emergency procedures.



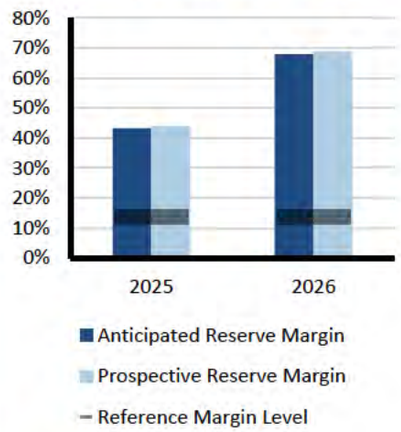
Texas RE-ERCOT

The Electric Reliability Council of Texas (ERCOT) is the independent system operator (ISO) for the ERCOT Interconnection and is located entirely in the state of Texas; it operates as a single BA. It also performs financial settlement for the competitive wholesale bulk power market and administers retail switching for nearly 8 million premises in competitive choice areas. ERCOT is governed by a board of directors and subject to oversight by the Public Utility Commission of Texas and the Texas Legislature. ERCOT is summer peaking, and the forecasted summer peak load month is August. It covers approximately 200,000 square miles, connects over 54,100 miles of transmission lines, has over 1,460 generation units, and serves more than 26 million customers. Texas RE is responsible for the Regional Entity functions described in the Energy Policy Act of 2005 for ERCOT. On November 3, 2022, the Public Utility Commission of Texas issued an order directing ERCOT to assume the duties and responsibilities of the reliability monitor for the Texas grid.

Highlights

- Given an Anticipated Reserve Margin of 67.9% and Reference Reserve Margin of 13.75%, ERCOT expects to have sufficient operating reserves for the August peak load hour given expected normal system summer conditions.
- Continued growth in load and intermittent resources drives a higher risk of emergency conditions in the evening hours when solar generation ramps down and loads are high.
- The probability of an EEA during the expected August (and summer) peak load day continues to drop relative to previous SRAs due to continued robust growth in battery energy storage capacity (up 2,677 MW year-on-year as of March 2026). The EEA probability for the highest-risk hour—hour ending 9:00 p.m.—is 0.43%, down from 3.1% previously.
- The projected EEA risk does not account for regional constraints in Far West Texas, which may lead to a reliance on price-responsive demand in certain low-generation scenarios.
- An identified risk is the potential of newly interconnected large loads (mainly data centers and crypto-mining facilities) to trip and potentially cause grid stability problems. ERCOT has implemented mandatory ride-through capabilities and requires dynamic model submissions, among other solutions, to address this risk.
- The risk assessment process for this SRA will be the same as ERCOT's upcoming August 2026 Monthly Outlook of Resource Adequacy (MORA) to be released on June 5.

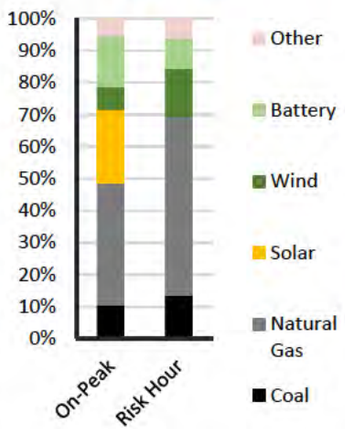
On-Peak Reserve Margin



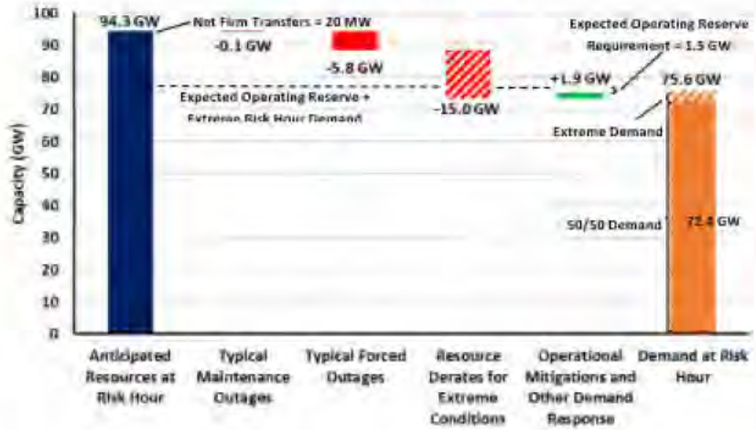
Risk Scenario Summary

The risk of having to declare an EEA for hour 21 is low (0.43%), according to ERCOT's probabilistic reserve risk model (PRRM) simulation results. The highest risk hour for the peak load day in August (which is also the expected summer peak load day).

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Hour: The highest risk hour, HE 2100 (9:00 pm CDT).

Demand Scenarios: Net internal demand, and an adjustment to extreme demand based on the 95th percentile of the PRRM's distribution of load simulation outcomes for the highest-risk hour (HE 2100).

Forced Outages: The adjustment is the 95th percentile of 10,000 daily thermal forced outage values generated by the PRRM, less the 50th percentile value.

Low-Wind Scenario: The adjustment is the 50th percentile of 10,000 wind generation values for hour ending 2100 generated by the PRRM, less the 0th percentile value.

Extreme Derates: The adjustment is the 50th percentile of 10,000 solar generation values for hour ending 2100 generated by the PRRM, less the 0th percentile value.

Operational Mitigations: Additional capacity from switchable generation and additional imports.



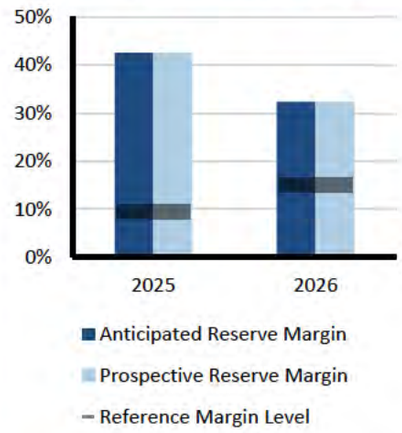
WECC-Alberta

WECC-Alberta is an assessment area that covers the Canadian province of Alberta. The province has a geographic area of 661,848 square kilometers (255,541 square miles) and a population of almost 5 million people. The Alberta Electric System Operator (AESO) is the province's planning entity and RC responsible for safe, reliable, and economic operation of the Alberta Interconnected Electric System. AESO is a non-profit corporation that operates a system that includes approximately 26,000 kilometers of transmission lines and connects approximately 426 qualified generating units and nearly 250 market participants through a wholesale market. Alberta's transmission system has three interties with neighboring areas—Saskatchewan (see MRO-SaskPower), British Columbia (see WECC-British Columbia), and Montana (see WECC-Northwest). Peak electricity demand on the AESO system currently occurs during the winter season.

Highlights

- Anticipated Reserve Margins for the summer exceed the NERC-prescribed Reference Margin Level. Additionally, WECC's probabilistic analysis shows no LOLH or EUE under a range of demand and energy availability conditions.
- Peak demand is projected to increase by 2.1% over last summer's forecast.
- Wide-area heat events and wildfires that affect resource and transmission availability across the Western Interconnection are a reliability concern. Firm imports may be limited at this time if neighboring areas are also experiencing peak loads, limiting energy availability.

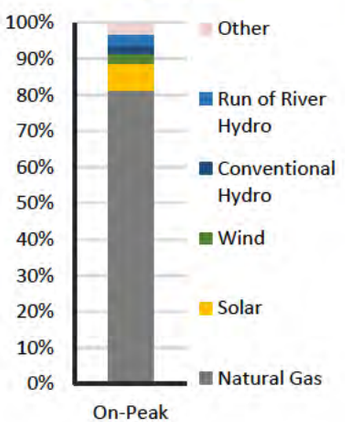
On-Peak Reserve Margin



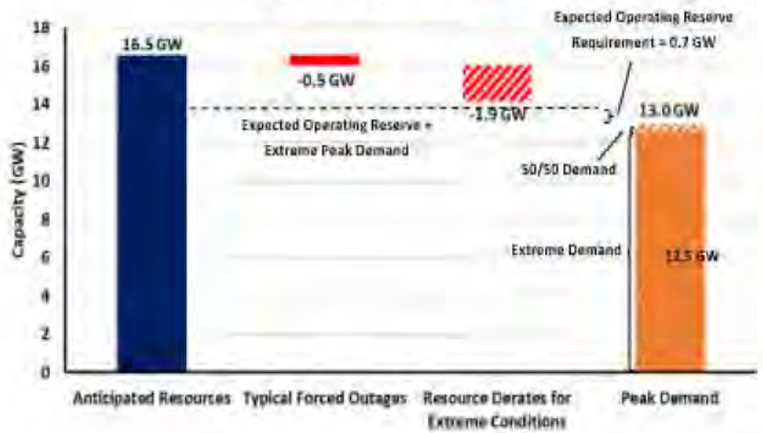
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: (90/10) resource performance distribution at peak hour.



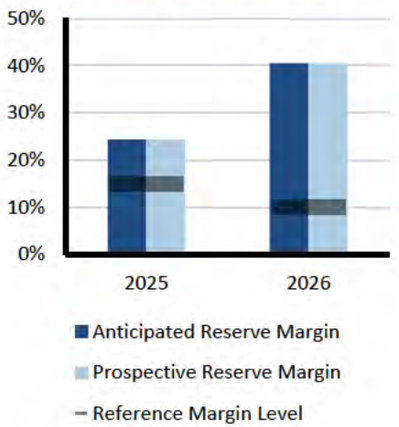
WECC-Basin

WECC-Basin is a summer-peaking assessment area in the WECC Regional Entity that includes Utah, southern Idaho, and a portion of western Wyoming, covering Idaho Power and PacifiCorp's eastern Balancing Authority Area. The population of this area is approximately 5.4 million. It has 15,910 miles of transmission. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 40 BAs, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 84.5 million customers, it is geographically the largest and most diverse Regional Entity.

Highlights

- WECC-Basin has established a 15% Reference Margin Level for the 2026 Summer assessment period.
- Wildfires remain a reliability concern for the region, particularly in areas with remote generation such as remotely located hydro. Mitigation programs such as hardening and public safety shutoff programs are in place.
- Extreme temperatures pose a risk to the area, impacting load levels and renewable variability. WECC-Basin is positioned to rely on imports during such conditions, which also poses a risk of concurrent impacts should neighbors experience similar conditions.
- Load forecasts for the area are projected to be 2.5% higher than 2025 Summer actuals.
- Wind, solar, and energy storage resources continue to grow.
- Reserve margins are not anticipated to fall below the 15% Reference Margin Level for 2026 Summer. Both Anticipated and Prospective Reserve Margins are expected to be adequate at 37.6%

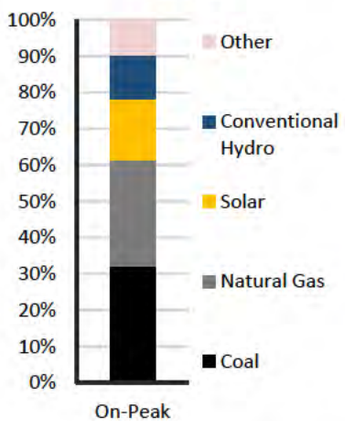
On-Peak Reserve Margin



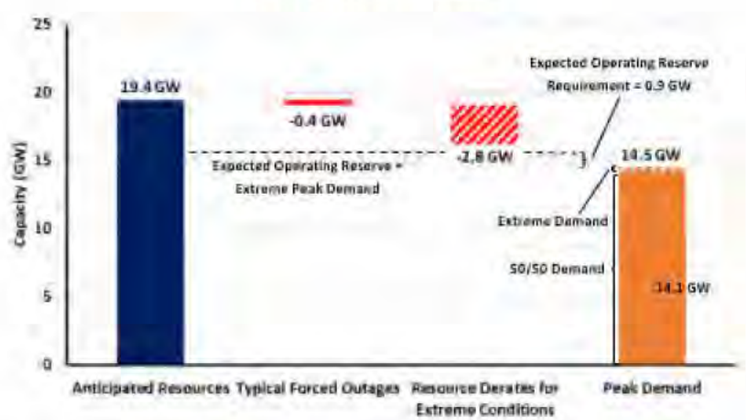
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios with imports.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: (90/10) resource performance distribution at peak hour.



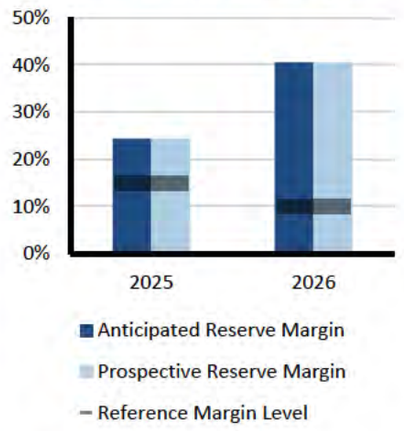
WECC-British Columbia

WECC-British Columbia is an assessment area that covers the Canadian province of British Columbia. The province has a geographic area of 944,735 square kilometers (364,764 square miles) and a population of just over 5 million people. BC Hydro is the Planning Entity and RC for the province of British Columbia and is the principal supplier of electricity for the province. BC Hydro is a provincial Crown corporation and, under provincial legislation, is responsible for the oversight of the British Columbia BES and its interconnections. BC Hydro operates an integrated system supported by 32 hydroelectric plants, approximately 80,000 kilometers of transmission and distribution lines, and 125 contracts with independent power producers. BC Hydro's transmission system has two interties with neighboring areas—the U.S. state of Washington (see WECC-Northwest) and Alberta (see WECC-Alberta). Peak electricity demand on the BC Hydro system currently occurs during the winter season.

Highlights

- Anticipated Reserve Margins for the summer exceed the NERC-recommended Reference Margin Level.
- WECC's probabilistic analysis shows no LOLH nor EUE under a range of demand and energy availability conditions.
- Peak net internal demand is projected to increase 2.4% over last summer's forecast while anticipated resources increase by 15.7%.
- Wide-area heat events or wildfires that affect resource and transmission availability across the Western Interconnection are a reliability concern. Energy imports may be limited at this time if neighboring areas are also experiencing peak loads, limiting energy availability.
- Supply chain constraints and economic uncertainty may impact Tier 1 resources.

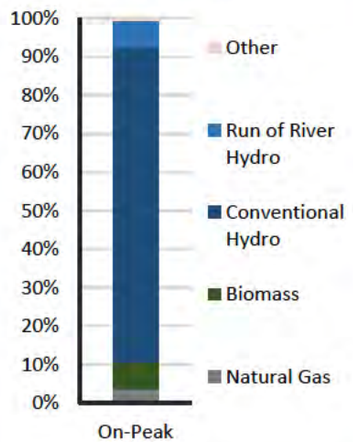
On-Peak Reserve Margin



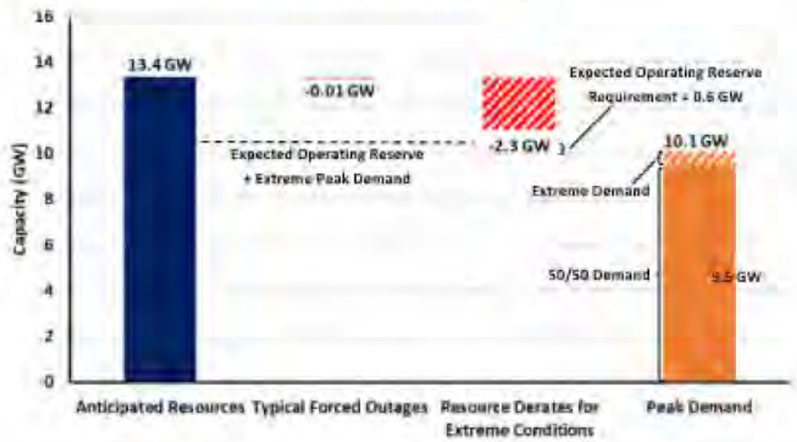
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: (90/10) resource performance distribution at peak hour.



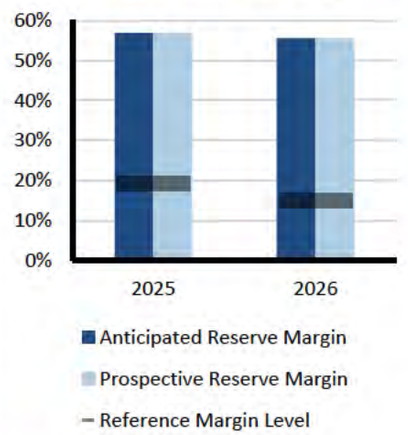
WECC-California

WECC-California is a summer-peaking assessment area in the Western Interconnection that includes most of California and a small section of Nevada. The assessment area has a population of over 42.5 million people. The area includes the California ISO, the Los Angeles Department of Water and Power, the Turlock Irrigation District, and the Balancing Area of Northern California. It has 32,712 miles of transmission. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 40 BAs, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 84.5 million customers, it is geographically the largest and most diverse Regional Entity.

Highlights

- Anticipated Reserve Margins for the summer exceed the NERC-prescribed Reference Margin Level. WECC's probabilistic analysis shows no LOLH or EUE under a range of demand and energy availability conditions.
- Extreme heat and wildfires exacerbated by continued climate change may impact generation and transmission resources and remain a reliability concern.
- Cyber attacks pose significant reliability concerns for the area.
- Supply chain constraints and economic uncertainty may impact Tier 1 resources.
- Inverter-based resource (IBR) output variability remains a concern, such as from the evening ramp requirements from declining solar and Santa Ana winds, which can overspeed wind turbines, requiring them to curtail.

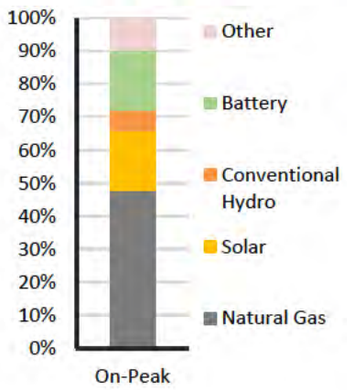
On-Peak Reserve Margin



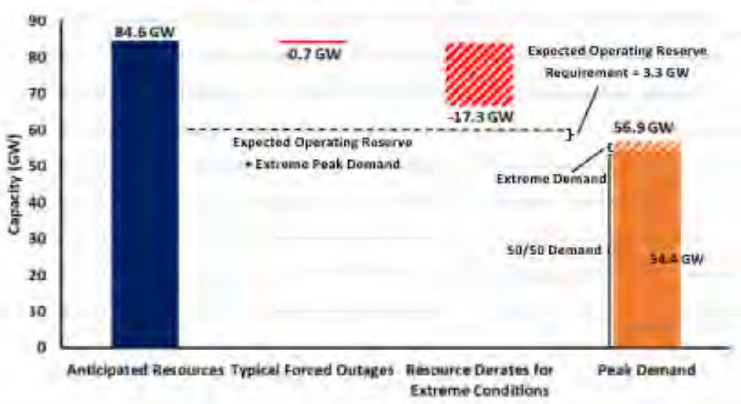
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: On-peak risk scenario.

Demand Scenarios: 50/50 and 90/10. Significant difference in delta from 2025. May be from switch to SERVM and weather year adjustment taken out.

Forced Outages: Based on historical average of forced outages for a specified period/conditions (e.g., average of forced outages for June through September weekdays, over the past three years), or area-specific methodology for determining anticipated forced outages for non-intermittent resources (e.g., thermal, hydro).

Extreme Derates: Capacity derate for resources for extreme conditions. The derate accounts for reduced capacity contributions due to performance in extreme conditions for thermal, wind, PV, storage, and other.



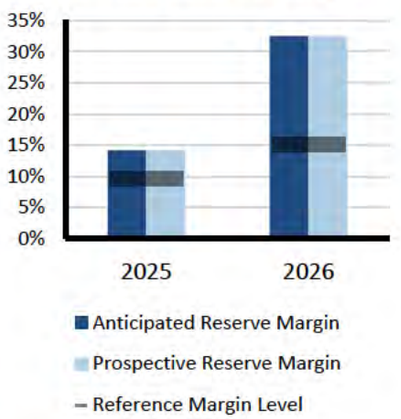
WECC-Mexico

WECC-Mexico is a summer-peaking assessment area in the Western Interconnection that includes the northern portion of the Mexican state of Baja California, which has a population of 3.8 million people and includes Centro Nacional de Control de Energía (CENACE). It has 1,568 miles of transmission. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 40 BAs, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 84.5 million customers, it is geographically the largest and most diverse Regional Entity.

Highlights

- WECC-Mexico has added an additional 1 GW of natural-gas-fired resources since last summer, greatly improving its outlook from the *2025 SRA*.
- Anticipated Reserve Margins for the summer exceed the NERC-prescribed Reference Margin Level. WECC's probabilistic analysis shows no LOLH or EUE under a range of demand and energy availability conditions. Anticipated resources are projected to be 15.5% higher.
- Operating reserves are a concern in this region during periods of extreme heat and elevated demand. High loading on Path 45 (See: WECC Path Rating Catalog) coupled with outages or derates to large thermal assets in this region can result in the declaration of an EEA and a request for assistance from RC West.
- Some generating units have reached advanced operational age, resulting in an observable increase in the forced outage rate. This condition increases the risk of capacity shortfalls and may compromise system reliability during peak seasonal demand.

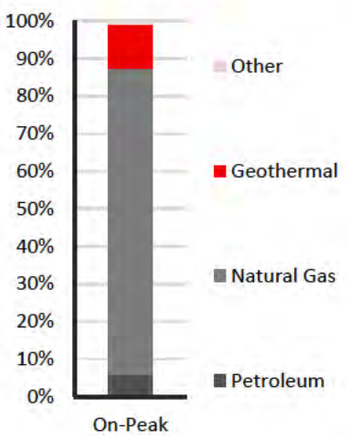
On-Peak Reserve Margin



Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy at peak demand hour.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: Using (90/10) resource performance distribution at peak hour.



WECC-Northwest

WECC-Northwest is a winter-peaking assessment area in the WECC Regional Entity. The area includes Montana, Oregon, and Washington and parts of northern California and northern Idaho. The population of the area is approximately 13.6 million. It has 32,751 miles of transmission. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 40 BAs, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 84.5 million customers, it is geographically the largest and most diverse Regional Entity.

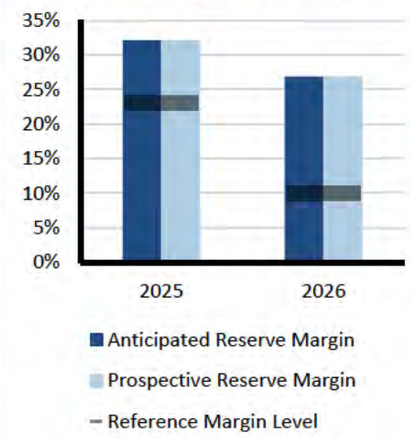
Highlights

- Anticipated Reserve Margins for the summer exceed the NERC-prescribed Reference Margin Level. WECC's probabilistic analysis shows EUE at 2.7 MWh and LOLH of 0.1 hours weighted average under a range of weather scenarios for demand and energy availability conditions.
- The EUE and LOLH occurs in hours 17 and 18 in August and September, with the vast majority September hour 18.
- Peak net internal demand is projected to grow 4.6% over last summer's forecasts; however, anticipated resources are showing just a 1.5% increase in energy availability, leading to tighter margins.
- Wide-area heat events, wildfires, and low snow-water equivalents due to a changing climate impact generation resource and transmission availability and remain a continued reliability concern. Firm imports may be limited at this time if neighboring areas are also experiencing peak loads or derates, limiting energy availability.
- Supply chain constraints and economic uncertainty may impact Tier 1 resources.
- There have been instances where operators had difficulty maintaining frequency due to sudden disconnection of large loads necessitating additional regulation capability.

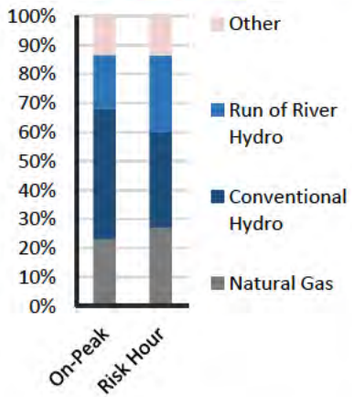
Risk Scenario Summary

Expected resources do not meet operating reserve requirements under the assessed extreme scenarios. WECC's probabilistic analysis showed EUE at 2.7 MWh and LOLH of 0.1 hours weighted average under a range of weather scenarios for demand and energy availability conditions, placing the area at risk of shortfall during extreme conditions.

On-Peak Reserve Margin



Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Modeled output depicting load-loss event from the probabilistic model.

Risk Period: Off-peak highest risk hour is primarily 6 p.m. in September.

Demand Scenarios: Modeled load for the risk hour during load-loss event.

Typical Forced Outages: Based on historical average of forced outages for the period.

Extreme Derates: Modeled outage and derates to account for underperformance of resources at the risk hour.

Operational Mitigations: An operational procedure used to mitigate extreme conditions not already included in the margins is the depletion of operating reserves by 1.7 GW. WECC did not use an operational model prior to this year's report, and it the first time the model includes operating reserves of 6% withheld through unserved energy.



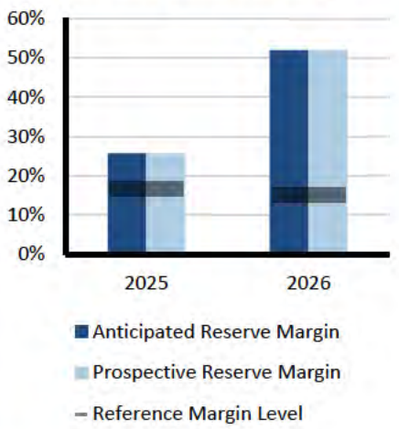
WECC-Rocky Mountain

WECC-BC (British Columbia) is a winter-peaking assessment area in the WECC Regional Entity that consists of the province of British Columbia, Canada. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 39 Balancing Authorities, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 82 million customers, it is geographically the largest and most diverse Regional Entity. WECC's service territory extends from Canada to Mexico. It includes the provinces of Alberta and British Columbia in Canada, the northern portion of Baja California in Mexico as well as all or portions of the 14 Western United States in between.

Highlights

- WECC-Rocky Mountain has established a 15% Reference Margin Level for the 2026 Summer assessment period.
- Anticipated Reserve Margins for the summer exceed the NERC-recommended Reference Margin Level.
- Wildfires in the region, along with extreme heat conditions for the summer, pose the greatest reliability risk scenario for the Rocky Mountains. These conditions can impact rural co-ops disproportionately.
- The existing certain and Anticipated Reserve Margins are projected to be at 43% and 52%, respectively, above the established 15% for the summer. Projections for summer load indicate minimal growth from 2025 and are 0.6% higher than 2025 Summer peak load conditions.

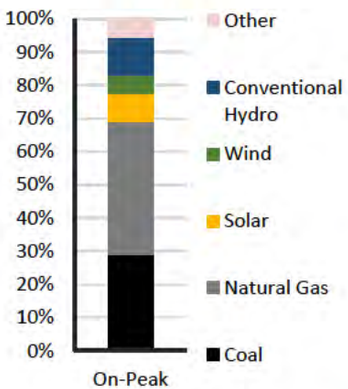
On-Peak Reserve Margin



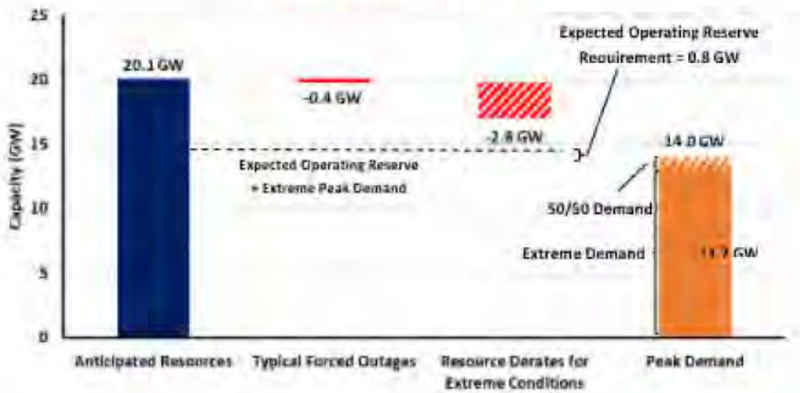
Risk Scenario Summary

Expected resources meet operating reserve requirements under assessed scenarios with imports.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy occurs at the hour of peak demand.

Demand Scenarios: Net internal demand (50/50) and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: (90/10) resource performance distribution at peak hour.



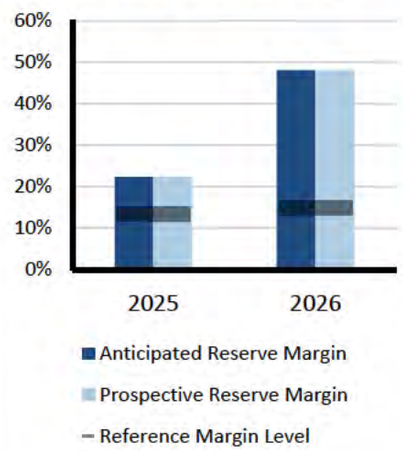
WECC-Southwest

WECC-Southwest is a summer-peaking assessment area in the Western Interconnection that includes all of Arizona and New Mexico, most of Nevada, and small parts of California and Texas. The area has a population of approximately 13.6 million. It has 23,084 miles of transmission. WECC is responsible for coordinating and promoting BES reliability in the Western Interconnection. WECC's 329 members include 40 BAs, representing a wide spectrum of organizations with an interest in the BES. Serving an area of nearly 1.8 million square miles and more than 84.5 million customers, it is geographically the largest and most diverse Regional Entity.

Highlights

- Anticipated Reserve Margins for the summer exceed the NERC-prescribed Reference Margin Level. WECC's probabilistic analysis shows no LOLH or EUE under a range of demand and energy availability conditions.
- Peak net internal demand is projected to grow 9.5% over last summer's forecasts. DR availability has also increased from 199 MW to 364 MW.
- Anticipated resource capacity is expected to be 32.5% higher than last summer, mostly due to methodological changes to capacity of incoming future resources. Supply chain constraints and economic uncertainty may impact Tier 1 resources.
- Elevated forced outage rates due to the amount of aging generation capacity along with extensive overhaul requirements can keep resources out of service for extended periods of time.
- Extreme heat events can result in prolonged periods of elevated demand, derates to thermal generation, and—given the large area that heat waves cover—drastically reduced import capability from neighboring areas. The area also faces significant wildland fire potential this summer. Wildfires have the potential to interrupt large numbers of customers by damaging generation, transmission, and distribution assets.

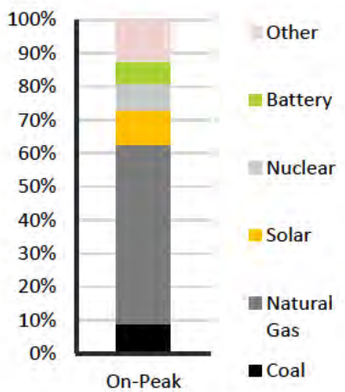
On-Peak Reserve Margin



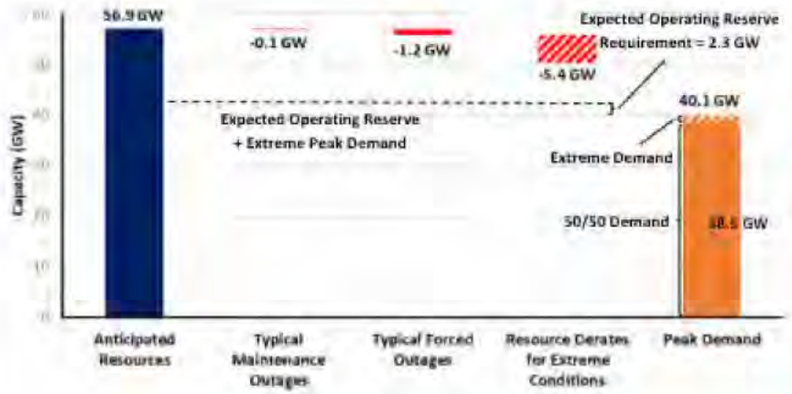
Risk Scenario Summary

Expected resources meet operating reserve requirements under the assessed scenarios.

Fuel Mix



Risk Period Scenario



Scenario Description (See Data Concepts and Assumptions)

Risk Period: Highest risk for unserved energy occurs at the hour of peak demand (5:00 p.m. local).

Demand Scenarios: Net internal demand (50/50) at risk hour and (90/10) demand forecast.

Forced Outages: Average seasonal outages.

Extreme Derates: Using (90/10) scenario.

Data Concepts and Assumptions

The table below explains data concepts and important assumptions used throughout this assessment.

General Assumptions
• Reliability of the interconnected BPS is comprised of both adequacy and operating reliability:
▪ Adequacy is the ability of the electric system to supply the aggregate electric power and energy requirements of the electricity consumers at all times while taking into account scheduled and reasonably expected unscheduled outages of system components.
▪ Operating reliability is the ability of the electric system to withstand sudden disturbances, such as electric short-circuits or unanticipated loss of system components.
• The reserve margin calculation is an important industry planning metric used to examine future resource adequacy.
• All data in this assessment is based on existing federal, state, and provincial laws and regulations.
• Differences in data collection periods for each assessment area should be considered when comparing demand and capacity data between year-to-year seasonal assessments.
• A positive net transfer capability would indicate a net importing assessment area; a negative value would indicate a net exporter.
Demand Assumptions
• Electricity demand projections, or load forecasts, are provided by each assessment area.
• Load forecasts include peak hourly load[17] or total internal demand for the summer and winter of each year.[18]
• Total internal demand projections are based on normal weather (50/50 distribution)[19] and are provided on a coincident[20] basis for most assessment areas.
• Net internal demand is used in all reserve margin calculations, and it is equal to total internal demand then reduced by the amount of controllable and dispatchable demand response projected to be available during the peak hour.

[17] https://www.nerc.com/pa/Stand/Glossary%20of%20Terms/Glossary_of_Terms.pdf used in NERC Reliability Standards

[18] The summer season represents June–September and the winter season represents December–February.

[19] Essentially, this means that there is a 50% probability that actual demand will be higher and a 50% probability that actual demand will be lower than the value provided for a given season/year.

[20] Coincident: This is the sum of two or more peak loads that occur in the same hour. Noncoincident: This is the sum of two or more peak loads on individual systems that do not occur in the same time interval; this is meaningful only when considering loads within a limited period of time, such as a day, a week, a month, a heating or cooling season, and usually for not more than one year. SERC calculates total internal demand on a noncoincidental basis.

Resource Assumptions

Resource planning methods vary throughout the North American BPS. NERC uses the categories below to provide a consistent approach for collecting and presenting resource adequacy. Because the electrical output of VERs (e.g., wind, solar PV) depends on weather conditions, their contribution to reserve margins and other on-peak resource adequacy analysis is less than their nameplate capacity.

Anticipated Resources:

- **Existing-Certain Capacity**: Included in this category are commercially operable generating units or portions of generating units that meet at least one of the following requirements when examining the period of peak demand for the summer season: unit must have a firm capability and have a power purchase agreement with firm transmission that must be in effect for the unit; unit must be classified as a designated network resource; and/or, where energy-only markets exist, unit must be a designated market resource eligible to bid into the market.
- **Tier 1 Capacity Additions**: This category includes capacity that either is under construction or has received approved planning requirements.
- **Net Firm Capacity Transfers (Imports minus Exports)**: This category includes transfers with firm contracts.

Prospective Resources: Includes all anticipated resources plus the following:

Existing-Other Capacity: Included in this category are commercially operable generating units or portions of generating units that could be available to serve load for the period of peak demand for the season but do not meet the requirements of existing-certain.

Reserve Margin Descriptions

Planning Reserve Margin: This is the primary metric used to measure resource adequacy; it is defined as the difference in resources (anticipated or prospective) and net internal demand then divided by net internal demand and shown as a percentage.

Reference Margin Level: The assumptions and naming convention of this metric vary by assessment area. The Reference Margin Level can be determined using both deterministic and probabilistic (based on a 0.1/year loss-of-load study) approaches. In both cases, this metric is used by system planners to quantify the amount of reserve capacity in the system above the forecasted peak demand that is needed to ensure sufficient supply to meet peak loads. Establishing a Reference Margin Level is necessary to account for long-term factors of uncertainty involved in system planning, such as unexpected generator outages and extreme weather impacts that could lead to increase demand beyond what was projected in the 50/50 load forecast. In many assessment areas, a Reference Margin Level is established by a state, provincial authority, ISO/Regional Transmission Organization (RTO), or other regulatory body. In some cases, the Reference Margin Level is a requirement. Reference Margin Level s may be different for the summer and winter seasons. If a Reference Margin Level is not provided by an assessment area, NERC applies 15% for predominantly thermal systems and 10% for predominantly hydro systems.

Seasonal Risk Scenario Chart Description

Each assessment area performed an operational risk analysis that was used to produce the seasonal risk scenario charts in the Regional Assessments Dashboards. The chart presents deterministic scenarios for further analysis of different resource and demand levels: The left blue column shows anticipated resources, and the two orange columns at the right show the two demand scenarios of the normal peak net internal demand and the extreme summer peak demand—both determined by the assessment area. The middle red or green bars show adjustments that are applied cumulatively to the anticipated resources, such as the following:

- Reductions for typical generation outages (i.e., maintenance and forced outages that are not already accounted for in anticipated resources)
- Reductions that represent additional outage or performance derating by resource type for extreme, low-probability conditions (e.g., drought condition impacts on hydroelectric generation, low-wind scenario affecting wind generation, fuel supply limitations, or extreme temperature conditions that result in reduced thermal generation output)
- Additional capacity resources that represent quantified capacity from operational procedures, if any, that are made available during scarcity conditions

Not all assessment areas have the same categories of adjustments to anticipated resources. Furthermore, each assessment area determined the adjustments to capacity based on methods or assumptions that are summarized below the chart. Methods and assumptions differ by assessment area and may not be comparable.

The chart enables evaluation of resource levels against levels of expected operating reserve requirement and the forecasted demand. Furthermore, the effects from extreme events can also be examined by comparing resource levels after applying extreme scenario derates and/or extreme summer peak demand.

Resource Adequacy

The Anticipated Reserve Margin, which is based on available resource capacity, is a metric used to evaluate resource adequacy by comparing the projected capability of anticipated resources to serve forecast peak demand.[21] Large year-to-year changes in anticipated resources or forecast peak demand (net internal demand) can greatly impact Planning Reserve Margin calculations. All assessment areas have sufficient Anticipated Reserve Margins to meet or exceed their Reference Margin Level for Summer 2026 as shown in Figure 5.

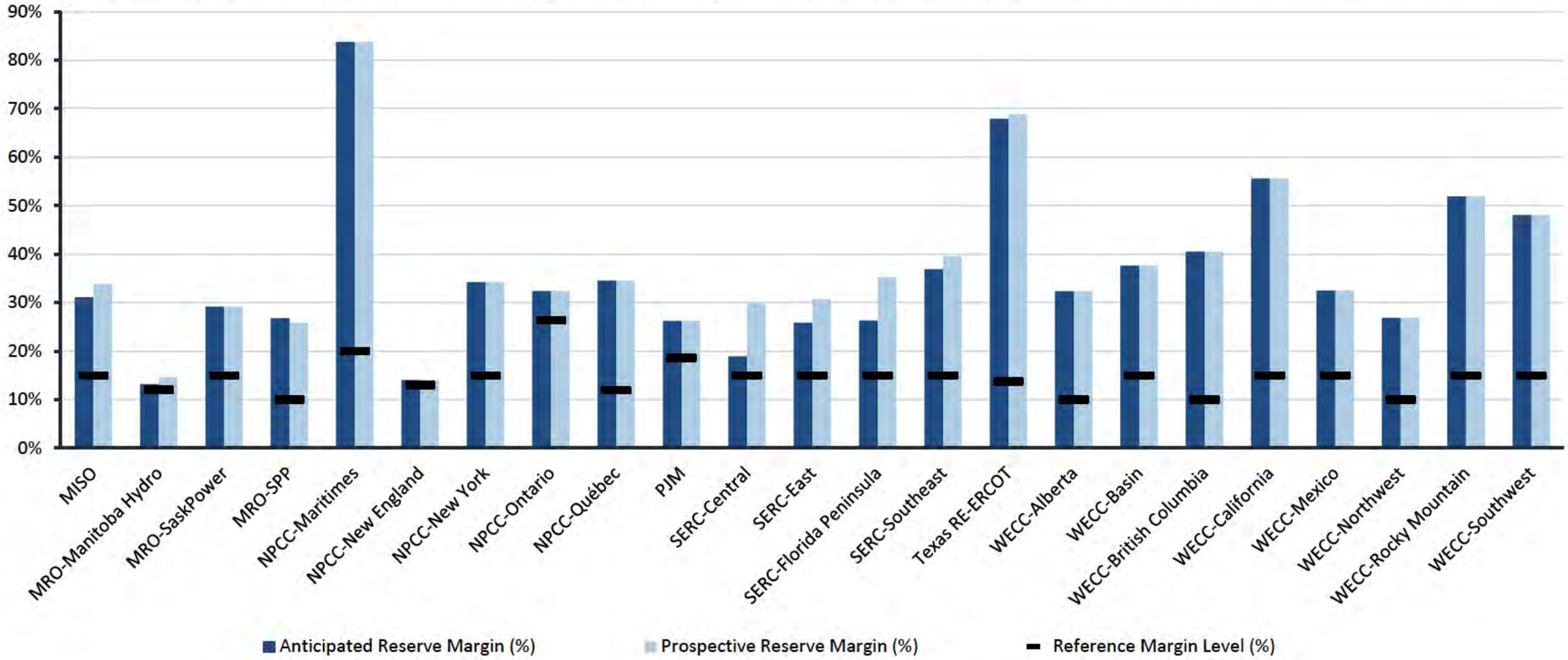


Figure 5: Summer 2026 Anticipated/Prospective Reserve Margins Compared to Reference Margin Level

[21] Generally, anticipated resources include generators and firm capacity transfers that are expected to be available to serve load during electrical peak loads for the season. Prospective resources are those that could be available but do not meet criteria to be counted as anticipated resources. Refer to the Data Concepts and Assumptions section for additional information on Anticipated/Prospective Reserve Margins, anticipated/prospective resources, and Reference Margin Levels.

Changes from Year to Year

Figure 6 provides the relative change in the forecast Anticipated Reserve Margins from the 2025 Summer to the 2026 Summer. A significant decline can signal potential operational issues for the upcoming season. Additional details for each assessment area are provided in the Data Concepts and Assumptions and Regional Assessments Dashboards sections.

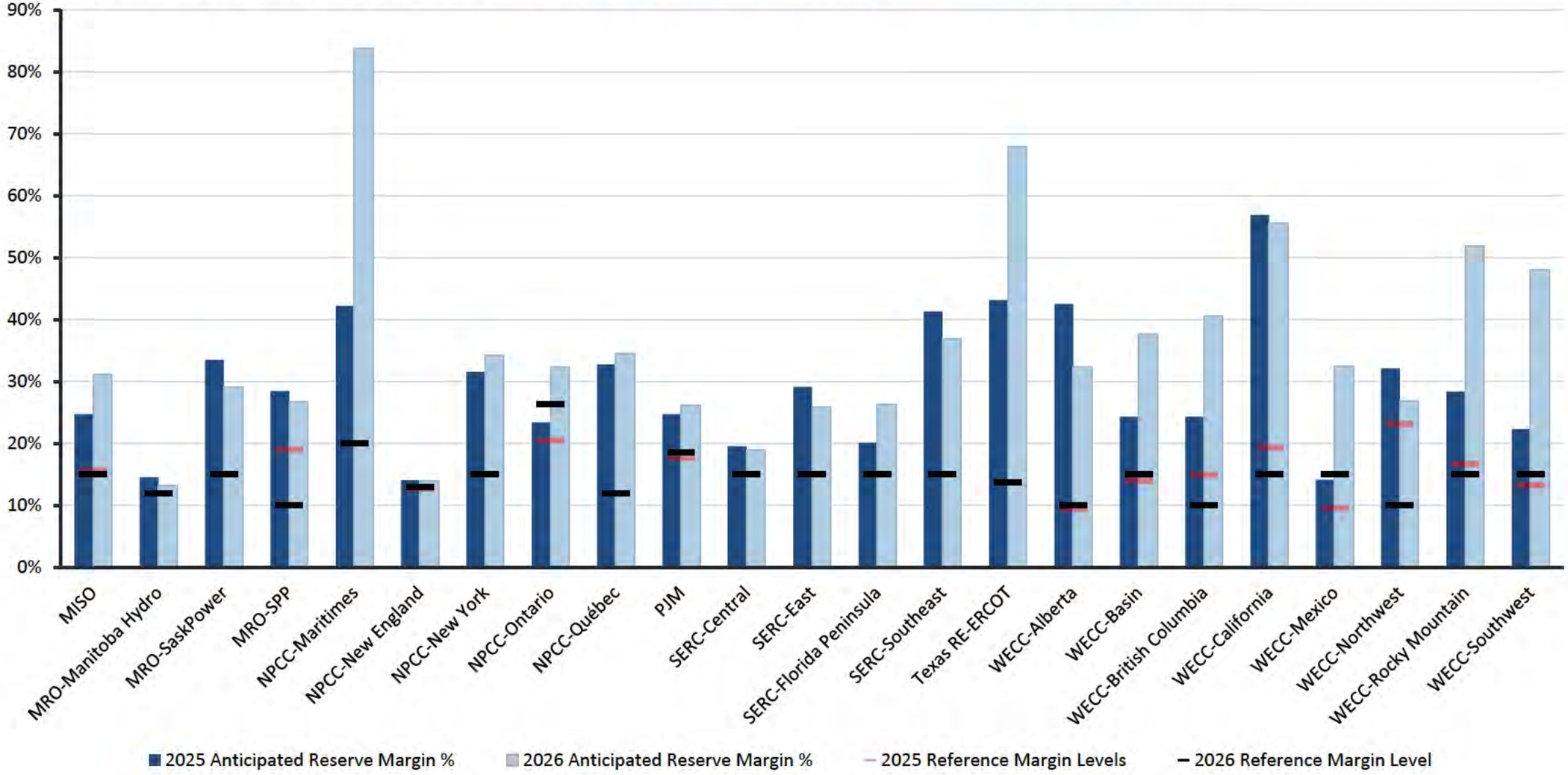


Figure 6: Summer 2025 and Summer 2026 Anticipated Reserve Margins Year-to-Year Change

Net Internal Demand

The changes in forecasted net internal demand for each assessment area are shown in Figure 7.[22] Assessment areas develop these forecasts based on historic load and weather information as well as other long-term projections.

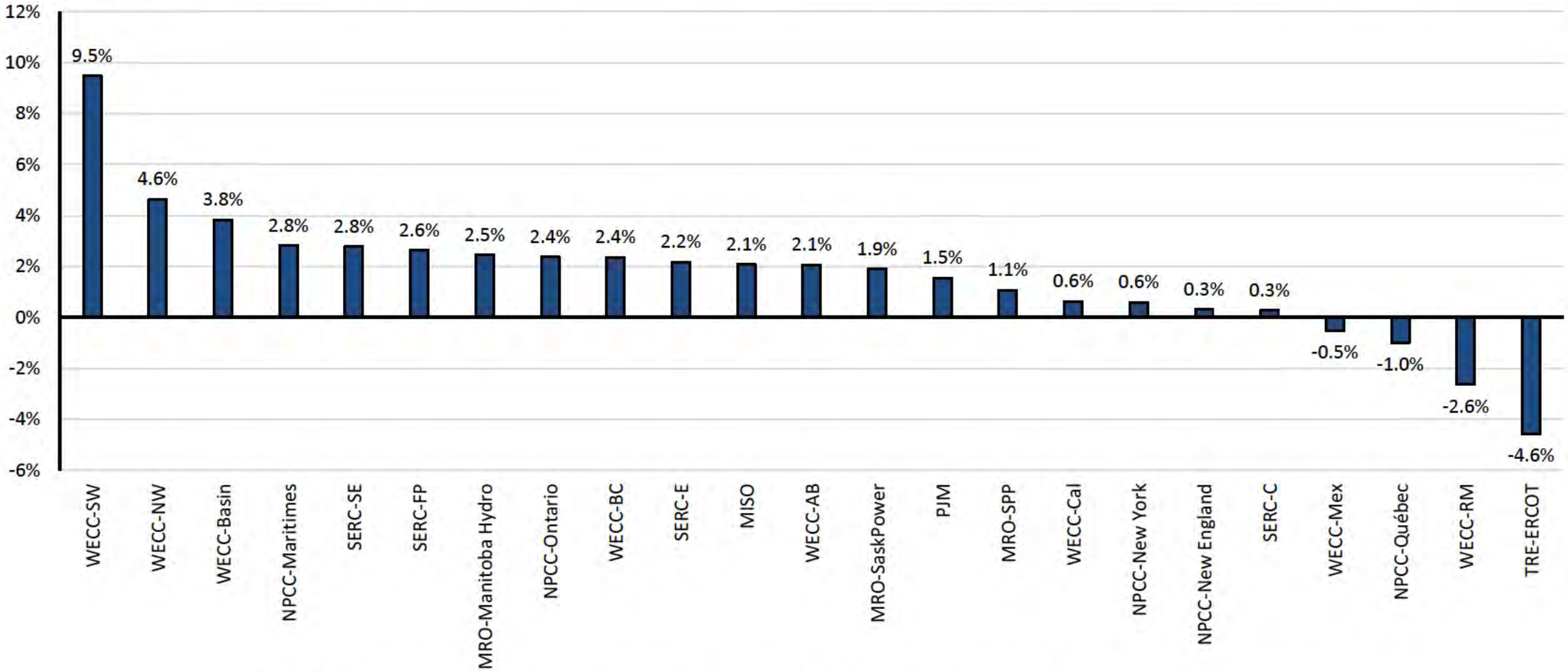


Figure 7: Changes in Net Internal Demand—Summer 2025 Forecast Compared to Summer 2026 Forecast

[22] The lower demand forecast in Texas RE-ERCOT is the result of updated load modeling that reflects the observed behavior of load during peak periods and more demand response from large computational loads.

Demand and Resource Tables

The tables in this section contain peak demand and supply capacity data (i.e., resource adequacy data) for each assessment area.

MISO			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	125,313	127,824	2.0%
Demand Response: Available	9,004	9,100	1.1%
Net Internal Demand	116,309	118,725	2.1%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	142,793	152,382	6.7%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	2,280	3,259	42.9%
Anticipated Resources	145,073	155,641	7.3%
Existing-Other Capacity	1,190	0	-100.0%
Prospective Resources	148,543	158,900	7.0%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	24.7%	31.1%	6.4
Prospective Reserve Margin	27.7%	33.8%	6.1
Reference Margin Level	15.7%	15.0%	-0.7

MRO-Manitoba Hydro			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	3,377	3,611	6.9%
Demand Response: Available	0	151	-
Net Internal Demand	3,377	3,460	2.5%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	5,583	5,631	0.9%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	-1,714	-1,714	0.0%
Anticipated Resources	3,869	3,917	1.2%
Existing-Other Capacity	21	46	114.6%
Prospective Resources	3,890	3,963	1.9%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	14.6%	13.2%	-1.4
Prospective Reserve Margin	15.2%	14.5%	-0.7
Reference Margin Level	12.0%	12.0%	0.0

MRO-SaskPower			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	3,620	3,688	1.9%
Demand Response: Available	50	50	0.0%
Net Internal Demand	3,570	3,638	1.9%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	4,477	4,409	-1.5%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	290	290	0.0%
Anticipated Resources	4,767	4,699	-1.4%
Existing-Other Capacity	0	0	-
Prospective Resources	4,767	4,699	-1.4%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	33.5%	29.2%	-4.4
Prospective Reserve Margin	33.5%	29.2%	-4.4
Reference Margin Level	15.0%	15.0%	0.0

MRO-SPP			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	56,168	57,122	1.7%
Demand Response: Available	1,408	1,772	25.8%
Net Internal Demand	54,760	55,350	1.1%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	70,549	69,317	-1.7%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	-201	851	-524.0%
Anticipated Resources	70,348	70,168	-0.3%
Existing-Other Capacity	0	0	-
Prospective Resources	69,801	69,621	-0.3%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	28.5%	26.8%	-1.7
Prospective Reserve Margin	27.5%	25.8%	-1.7
Reference Margin Level	19.0%	10.0%	-9.0

NPCC-Maritimes			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	3,584	3,691	3.0%
Demand Response: Available	327	342	4.6%
Net Internal Demand	3,257	3,349	2.8%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	4,348	5,721	31.6%
Tier 1 Planned Capacity	220	280	27.3%
Net Firm Capacity Transfers	63	153	142.9%
Anticipated Resources	4,631	6,154	32.9%
Existing-Other Capacity	0	0	-
Prospective Resources	4,631	6,154	32.9%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	42.2%	83.8%	41.6
Prospective Reserve Margin	42.2%	83.8%	41.6
Reference Margin Level	20.0%	20.0%	0.0

NPCC-New York			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	31,471	31,578	0.3%
Demand Response: Available	1,487	1,415	-4.8%
Net Internal Demand	29,984	30,163	0.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	37,682	37,324	-1.0%
Tier 1 Planned Capacity	0	210	-
Net Firm Capacity Transfers	1,769	2,941	66.3%
Anticipated Resources	39,451	40,475	2.6%
Existing-Other Capacity	0	0	-
Prospective Resources	39,451	40,475	2.6%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	31.6%	34.2%	2.6
Prospective Reserve Margin	31.6%	34.2%	2.6
Reference Margin Level	15.0%	15.0%	0.0

NPCC-New England			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	25,202	25,228	0.1%
Demand Response: Available	399	346	-13.3%
Net Internal Demand	24,803	24,882	0.3%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	27,054	27,667	2.3%
Tier 1 Planned Capacity	0	295	-
Net Firm Capacity Transfers	1,245	409	-67.1%
Anticipated Resources	28,299	28,371	0.3%
Existing-Other Capacity	668	0	-100.0%
Prospective Resources	28,967	28,371	-2.1%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	14.1%	14.0%	-0.1
Prospective Reserve Margin	16.8%	14.0%	-2.8
Reference Margin Level	12.7%	13.0%	0.3

NPCC-Ontario			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	21,955	22,545	2.7%
Demand Response: Available	998	1,088	9.1%
Net Internal Demand	20,957	21,457	2.4%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	24,760	26,837	8.4%
Tier 1 Planned Capacity	413	670	62.2%
Net Firm Capacity Transfers	689	900	30.6%
Anticipated Resources	25,862	28,407	9.8%
Existing-Other Capacity	0	0	-
Prospective Resources	25,862	28,407	9.8%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	23.4%	32.4%	9.0
Prospective Reserve Margin	23.4%	32.4%	9.0
Reference Margin Level	20.5%	26.3%	5.9

NPCC-Québec			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	23,283	22,490	-3.4%
Demand Response: Available	1,020	450	-55.9%
Net Internal Demand	22,263	22,040	-1.0%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	32,132	33,324	3.7%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	-2,582	-3,670	42.1%
Anticipated Resources	29,550	29,655	0.4%
Existing-Other Capacity	0	0	-
Prospective Resources	29,550	29,655	0.4%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	32.7%	34.5%	1.8
Prospective Reserve Margin	32.7%	34.5%	1.8
Reference Margin Level	11.9%	11.9%	0.0

SERC-Central			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	42,765	44,369	3.8%
Demand Response: Available	864	2,354	172.3%
Net Internal Demand	41,900	42,016	0.3%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	46,949	47,603	1.4%
Tier 1 Planned Capacity	592	202	-66.0%
Net Firm Capacity Transfers	2,554	2,158	-15.5%
Anticipated Resources	50,095	49,962	-0.3%
Existing-Other Capacity	2,475	4,546	83.7%
Prospective Resources	52,570	54,508	3.7%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	19.6%	18.9%	-0.6
Prospective Reserve Margin	25.5%	29.7%	4.3
Reference Margin Level	15.0%	15.0%	0.0

PJM			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	154,144	156,373	1.4%
Demand Response: Available	7,898	7,864	-0.4%
Net Internal Demand	146,246	148,509	1.5%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	186,638	188,854	1.2%
Tier 1 Planned Capacity	0	0	-
Net Firm Capacity Transfers	-4,200	-1,427	-66.0%
Anticipated Resources	182,438	187,427	2.7%
Existing-Other Capacity	0	0	-
Prospective Resources	178,238	187,427	5.2%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	24.7%	26.2%	1.5
Prospective Reserve Margin	21.9%	26.2%	4.3
Reference Margin Level	17.7%	18.6%	0.9

SERC-East			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	44,015	44,765	1.7%
Demand Response: Available	1,558	1,387	-11.0%
Net Internal Demand	42,457	43,378	2.2%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	54,665	54,637	0.0%
Tier 1 Planned Capacity	17	23	36.9%
Net Firm Capacity Transfers	150	119	-20.7%
Anticipated Resources	54,832	54,780	-0.1%
Existing-Other Capacity	2,628	3,890	48.1%
Prospective Resources	57,459	58,670	2.1%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	29.1%	26.3%	-2.8
Prospective Reserve Margin	35.3%	35.3%	0.0
Reference Margin Level	15.0%	15.0%	0.0

SERC-Florida Peninsula			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	52,987	54,477	2.8%
Demand Response: Available	3,158	3,335	5.6%
Net Internal Demand	49,829	51,142	2.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	59,395	64,163	8.0%
Tier 1 Planned Capacity	102	58	-43.4%
Net Firm Capacity Transfers	381	131	-65.6%
Anticipated Resources	59,878	64,352	7.5%
Existing-Other Capacity	3,482	2,481	-28.7%
Prospective Resources	63,360	66,833	5.5%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	20.2%	25.8%	5.7
Prospective Reserve Margin	27.2%	30.7%	3.5
Reference Margin Level	15.0%	15.0%	0.0

Texas RE-ERCOT			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	85,151	83,224	-2.3%
Demand Response: Available	3,292	5,100	54.9%
Net Internal Demand	81,859	78,124	-4.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	112,321	125,975	12.2%
Tier 1 Planned Capacity	4,854	5,189	6.9%
Net Firm Capacity Transfers	20	20	0.0%
Anticipated Resources	117,195	131,184	11.9%
Existing-Other Capacity	0	0	-
Prospective Resources	117,770	131,903	12.0%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	43.2%	67.9%	24.8
Prospective Reserve Margin	43.9%	68.8%	25.0
Reference Margin Level	13.75%	13.75%	0.0

SERC-Southeast			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	47,049	48,625	3.3%
Demand Response: Available	1,338	1,642	22.7%
Net Internal Demand	45,711	46,983	2.8%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	64,111	64,391	0.4%
Tier 1 Planned Capacity	0	375	-
Net Firm Capacity Transfers	489	-467	-195.5%
Anticipated Resources	64,600	64,299	-0.5%
Existing-Other Capacity	1,077	1,277	18.7%
Prospective Resources	65,676	65,576	-0.2%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	41.3%	36.9%	-4.5
Prospective Reserve Margin	43.7%	39.6%	-4.1
Reference Margin Level	15.0%	15.0%	0.0

WECC-AB			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	12,246	12,499	2.1%
Demand Response: Available	0	0	-
Net Internal Demand	12,246	12,499	2.1%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	17,176	16,179	-5.8%
Tier 1 Planned Capacity	281	323	15.1%
Net Firm Capacity Transfers	0	40	-
Anticipated Resources	17,457	16,542	-5.2%
Existing-Other Capacity	0	0	-
Prospective Resources	17,457	16,542	-5.2%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	42.6%	32.3%	-10.2
Prospective Reserve Margin	42.6%	32.3%	-10.2
Reference Margin Level	9.4%	15.0%	5.6

WECC-BC			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	9,309	9,529	2.4%
Demand Response: Available	0	0	-
Net Internal Demand	9,309	9,529	2.4%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	11,313	12,307	8.8%
Tier 1 Planned Capacity	260	469	80.3%
Net Firm Capacity Transfers	0	612	-
Anticipated Resources	11,573	13,388	15.7%
Existing-Other Capacity	0	0	-
Prospective Resources	11,573	13,388	15.7%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	24.3%	40.5%	16.2
Prospective Reserve Margin	24.3%	40.5%	16.2
Reference Margin Level	14.9%	10.0%	-4.9

WECC-California			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	54,797	55,073	0.5%
Demand Response: Available	746	685	-8.2%
Net Internal Demand	54,051	54,388	0.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	75,726	78,788	4.0%
Tier 1 Planned Capacity	8,470	2,085	-75.4%
Net Firm Capacity Transfers	598	3,751	527.2%
Anticipated Resources	84,794	84,623	-0.2%
Existing-Other Capacity	0	0	-
Prospective Resources	84,794	84,623	-0.2%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	56.9%	55.6%	-1.3
Prospective Reserve Margin	56.9%	55.6%	-1.3
Reference Margin Level	19.2%	15.0%	-4.2

WECC-Southwest			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	35,321	38,814	9.9%
Demand Response: Available	199	364	82.9%
Net Internal Demand	35,122	38,451	9.5%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	40,300	46,476	15.3%
Tier 1 Planned Capacity	1,966	6,667	239.1%
Net Firm Capacity Transfers	695	3,791	445.4%
Anticipated Resources	42,961	56,934	32.5%
Existing-Other Capacity	0	0	-
Prospective Resources	42,961	56,934	32.5%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	22.3%	48.1%	25.8
Prospective Reserve Margin	22.3%	48.1%	25.8
Reference Margin Level	13.3%	15.0%	1.7

WECC-Northwest			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	29,157	30,479	4.5%
Demand Response: Available	30	2	-93.3%
Net Internal Demand	29,127	30,477	4.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	36,388	35,708	-1.9%
Tier 1 Planned Capacity	844	477	-43.5%
Net Firm Capacity Transfers	1,249	2,483	98.8%
Anticipated Resources	38,481	38,668	0.5%
Existing-Other Capacity	0	0	-
Prospective Resources	38,481	38,668	0.5%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	32.1%	26.9%	-5.2
Prospective Reserve Margin	32.1%	26.9%	-5.2
Reference Margin Level	23.1%	10.0%	-13.1

WECC-Basin			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	14,214	14,564	2.5%
Demand Response: Available	620	448	-27.7%
Net Internal Demand	13,594	14,116	3.8%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	14,923	16,759	12.3%
Tier 1 Planned Capacity	704	1,382	96.3%
Net Firm Capacity Transfers	1,274	1,288	1.1%
Anticipated Resources	16,901	19,429	15.0%
Existing-Other Capacity	0	0	-
Prospective Resources	16,901	19,429	15.0%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	24.3%	37.6%	13.3
Prospective Reserve Margin	24.3%	37.6%	13.3
Reference Margin Level	14.0%	15.0%	1.0

WECC-Rocky Mountain			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	13,848	13,516	-2.4%
Demand Response: Available	284	310	9.1%
Net Internal Demand	13,564	13,206	-2.6%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	17,312	18,363	6.1%
Tier 1 Planned Capacity	104	1,206	1059.6%
Net Firm Capacity Transfers	0	495	-
Anticipated Resources	17,416	20,063	15.2%
Existing-Other Capacity	0	0	-
Prospective Resources	17,415	20,063	15.2%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	28.4%	51.9%	23.5
Prospective Reserve Margin	28.4%	51.9%	23.5
Reference Margin Level	16.7%	15.0%	-1.7

WECC-Mexico			
Demand, Resource, and Reserve Margins	**2025 SRA**	**2026 SRA**	**2025 vs. 2026 SRA**
Demand Projections	**MW**	**MW**	**Net Change (%)**
Total Internal Demand (50/50)	3,770	3,750	-0.5%
Demand Response: Available	0	0	-
Net Internal Demand	3,770	3,750	-0.5%
Resource Projections	**MW**	**MW**	**Net Change (%)**
Existing-Certain Capacity	4,303	4,761	10.6%
Tier 1 Planned Capacity	0	765	-
Net Firm Capacity Transfers	0	-557	-
Anticipated Resources	4,303	4,969	15.5%
Existing-Other Capacity	0	0	-
Prospective Resources	4,303	4,969	15.5%
Reserve Margins	**Percent (%)**	**Percent (%)**	**Annual Difference**
Anticipated Reserve Margin	14.1%	32.5%	18.4
Prospective Reserve Margin	14.1%	32.5%	18.4
Reference Margin Level	9.6%	15.0%	5.4

Variable Energy Resource Contributions

Because the electrical output of variable energy resources (VER) (e.g., wind, solar PV) depends on weather conditions, on-peak capacity contributions are less than nameplate capacity. The following table shows the capacity contribution (MW) of existing wind and solar PV resources at the peak demand hour for each assessment area. Resource contributions are also aggregated by Interconnection and across the entire BPS. For NERC's analysis of risk periods after peak demand (e.g., U.S. assessment areas in WECC), lower contributions of solar PV resources are used because output is diminished during evening periods.

BPS Variable Energy Resources by Assessment Area

	Wind			Solar PV			Hydro			Energy Storage Systems (ESS)		
Assessment Area / Interconnection	Nameplate Wind	Expected Wind	Expected Share of Nameplate (%)	Nameplate Solar PV	Expected Solar PV	Expected Share of Nameplate (%)	Nameplate Run-of-River Hydro	Expected Run-of-River Hydro	Expected Share of Nameplate (%)	Nameplate ESS	Expected ESS	Expected Share of Nameplate (%)
MISO	32,066	5,611	17%	20,419	12,322	60%	1,294	770	60%	3,560	3,457	97%
MRO-Manitoba Hydro*	259	47	18%	-	-	0%	202	-	0%	-	-	0%
MRO-SaskPower	816	319	39%	30	9	28%	121	74	61%	-	-	0%
MRO-SPP	35,760	8,114	23%	3,926	2,139	54%	113	66	59%	1,318	1,113	84%
NPCC-Maritimes	1,341	423	32%	148	80	54%	1,316	1,316	100%	162	106	65%
NPCC-New England	2,431	424	17%	3,609	1,728	48%	584	287	49%	723	686	95%
NPCC-New York	2,598	417	16%	661	283	43%	914	354	39%	23	-	0%
NPCC-Ontario*	4,943	735	15%	478	66	14%	-	-	0%	451	226	50%
NPCC-Québec*	4,024	885	22%	10	1	12%	444	444	100%	-	-	0%
PJM	13,855	4,570	33%	16,852	9,951	59%	2,505	2,505	100%	256	238	93%
SERC-Central	1,324	370	28%	2,303	1,446	63%	4,979	3,213	65%	100	100	100%
SERC-East	-	-	0%	7,843	4,205	54%	3,096	3,033	98%	323	235	73%
SERC-Florida Peninsula	-	-	0%	13,502	6,276	46%	-	-	0%	1,177	1,145	97%
SERC-Southeast	-	-	0%	9,412	8,087	86%	3,326	3,374	101%	164	141	86%
Texas RE-ERCOT	40,586	9,450	23%	40,279	29,682	74%	579	447	77%	21,979	20,688	94%
WECC-AB	5,684	455	8%	1,870	1,271	68%	896	481	54%	261	222	85%
WECC-Basin	5,959	360	6%	3,773	2,605	69%	884	386	44%	655	557	85%
WECC-BC*	753	60	8%	17	12	71%	1,871	888	47%	-	-	0%
WECC-Cal	7,985	907	11%	27,495	14,278	52%	1,120	628	56%	16,711	14,204	85%
WECC-Mexico	296	3	1%	350	35	10%	-	-	0%	-	-	0%
WECC-NW*	9,941	1,016	10%	1,729	1,051	61%	14,086	8,303	59%	547	461	84%
WECC-RM	5,684	1,034	18%	2,920	1,551	53%	117	61	52%	342	291	85%
WECC-SW	4,848	1,473	30%	11,112	4,868	44%	376	270	72%	3,691	3,137	85%
EASTERN INTERCONNECTION	94,474	21,180	22%	78,714	46,528	59%	18,892	15,435	82%	7,805	7,220	92%
QUÉBEC INTERCONNECTION	4,024	885	22%	10	1	12%	444	444	100%	-	-	0%
TEXAS INTERCONNECTION	40,586	9,450	23%	40,279	29,682	74%	579	447	77%	21,979	20,688	94%
WECC INTERCONNECTION[23]	41,150	5,308	13%	49,266	25,670	52%	19,350	11,017	57%	22,207	18,872	85%
All INTERCONNECTIONS	**181,153**	**36,673**	**20%**	**168,736**	**101,946**	**60%**	**38,822**	**26,899**	**69%**	**52,442**	**47,005**	**90%**

*On peak contributions from conventional hydro are not represented in this table, and in certain areas those contributions are significant.

[23] Some areas in the Western Interconnection re-categorized their hydro resources for the 2026 SRA from run-of-river hydro to conventional hydro

Review of 2025 Capacity and Energy Performance

The summer of 2025 was the 12th hottest on record for the contiguous United States[24] during the meteorological summer period (June–August) and the 11th warmest summer in Canada.[25] Cooler-than-normal temperatures were observed in the eastern U.S., whereas most of Canada experienced slightly above-normal temperatures. Despite the comparatively temperate 2025 Summer (summer of 2024 was the fourth-hottest on record in both the United States[26] and Canada[27]), U.S. electricity generation reached a record high for the assessment summer period (June – September) at 1,628 TWh[28], topping the prior year's summer electricity generation total of 1,603 TWh. The month of July in the U.S. set a new monthly generation record at 446 TWh. In Canada, the comparatively cooler summer appears to have brought electricity generation down from the 2024 summer high of 192 TWh to the 2025 total of 188 TWh[29]. Actual peak demand exceeded normal demand forecasts across 19 assessment areas and exceeded extreme demand projections from the *2025 SRA* in three assessment areas. Despite a lower average summer temperature in 2025, a widespread heatwave[30] in early summer impacted much of the central and eastern U.S., bringing record-setting temperatures across several hundred counties.

Canada experienced its second-worst wildfire year on record[31] (2023 being the worst) with fires burning an area larger than New Brunswick and Prince Edward Island combined. Saskatchewan and Manitoba comprised nearly half of the total area impacted by the fires. Drought that began in 2021 has also deepened across Canada, resulting in reduced hydroelectric power generation for a third straight year in British Columbia.

Eastern Interconnection–Canada and Québec Interconnection

In Ontario, grid operators utilized demand response resources on 10 different occasions during the summer period,[32] culminating in demand reductions of 316 MW during the time of peak demand (24,862 MW) on June 24, 2025, the single highest peak in 12 years. Other demand-side management programs further reduced peak demand by 1,800 MW, contributing to 7% total reduction in demand stemming from consumer programs.

Québec saw electricity generation of roughly 52 TWh during the summer period,[33] down from 56 TWh for Summer 2024 amid relatively cooler temperatures and a year beset by low runoff levels that have persisted since 2023.[34] The Maritimes saw a slight increase in electricity generation to 5.8 TWh for Summer 2025, up from 5.3 TWh the prior summer. Nova Scotia Power realized nearly a 20% reduction in annual 2025 power outages from the year before but still fell short of targets set by the Nova Scotia Energy Board relating to power-outage duration and frequency.

Saskatchewan saw severe storms and large hail in late August that damaged infrastructure, triggering emergency operating conditions and power outages.[35]

[24] Assessing the U.S. Temperature and Precipitation Analysis in August 2025 | News | National Centers for Environmental Information (NCEI)
[25] Climate Trends and Variations Bulletin - summer 2025 - Canada.ca
[26] U.S. sweltered through its 4th-hottest summer on record | National Oceanic and Atmospheric Administration
[27] Climate Trends and Variations Bulletin - Summer 2024 - Canada.ca
[28] U.S. Energy Information Administration - EIA - Independent Statistics and Analysis
[29] Electric power generation, monthly generation by type of electricity
[30] Assessing the U.S. Climate in June 2025 | News | National Centers for Environmental Information (NCEI)
[31] Canada's top 10 weather stories of 2025 - Canada.ca
[32] 2025 Year in Review
[33] Electric power generation, monthly generation by type of electricity
[34] Hydro-Québec - Quarterly Bulletin - Third Quarter 2025
[35] SaskPower crews still working to restore power after weekend outages - WestCentralOnline: West Central Saskatchewan's latest news, sports, weather, community events.

Eastern Interconnection–United States

New York and New England saw region-wide heat waves in June and July. ISO-NE saw peak-hour demand in June exceed its extreme demand projections from the *2024 SRA*, a significant step up from the prior year's summer peak (+7%). Heat and humidity, high demand, and some unexpected generation reductions and outages left the region short of the resources needed to maintain required operating reserves for more than three hours around the evening peak on June 24,[36] though electricity supply was not interrupted. NYISO declared an EEA Level 1 on June 24, June 25, and July 29 due to limited capacity availability,[37] resulting in the deployment of emergency DR programs and other special-case resources. Both the New York and New England ISOs saw peak loads that exceeded their demand projections.

PJM saw their third-highest all-time summer peak[38] of more than 160 GW. This exceeded extreme demand projections for the summer (159 GW). The system operator was able to manage load by calling on customers who were enrolled in financially incentivized DR programs.

MISO declared an EEA Level 1[39] on June 23 to access emergency capacity. At the time of the event, more than 4 GW of generation was trapped in the south due to transmission constraints. MISO was able to dispatch 565 MW of emergency capacity in the Midwest, but only 45% performed. MISO has been engaged in efforts to highlight the need for non-performance penalties. On June 24, when neighboring areas were experiencing peak demand, MISO had to curtail non-firm exports to avoid going into EEA. In late July, MISO experienced a shortage of operating reserves due to errors in forecasting load and renewables. This was one of 24 total instances of operating reserve shortage, double the amount from the previous year.

In SERC, an EEA Level 2 was declared in the Carolinas amid high load conditions and generation resources that were unavailable[40] during the peak of the June heat wave affecting the broader Eastern Interconnection – a precautionary reliability measure to support system operations during peak demand and generation outages. During this event, the affected service territory recorded a new all-time peak demand of 21,931 MW on June 25.

Texas Interconnection–ERCOT

Texas saw a relatively mild summer and above-average rainfall in 2025 with the June–July period ranking as the 43rd hottest out of 131 historical years. But even so, Summer 2025 load levels were comparable to the 2023 Summer load levels when the summer was far hotter.[41] Forced outages of thermal resources outstripped such forced outages from the summer of 2024, prompting a larger discharge of energy storage resources (ESR) some evenings. Texas set a new solar generation record in July at 29.3 GW, and solar contributed just under 17 GW at the hour of peak demand on August 18 (hour ending at 6:00 pm). Wind generation was relatively high at the peak demand hour and also set records in the spring. Energy storage also reached a new discharge record at 7.2 GW on August 20.

Western Interconnection

The Western Interconnection saw summer peak demand decrease slightly from the previous year's summer peak, reaching 163,140 MW in 2025, down from 168,206 MW the prior summer. Operators and RCs were able to maintain the flow of electricity through the summer months.

[36] Summer 2025 recap: Reliability maintained as grid sees highest peak in over a decade - ISO Newswire
[37] NYISO Summer 2025
[38] 2025 in Review: Operations Improvements See PJM Through Record Peaks, Growing Demand | PJM Inside Lines
[39] Microsoft PowerPoint - IMM Quarterly Report, Summer 2025
[40] DOE grants Duke Energy authority to exceed power plant permit limits during extreme heat | Utility Dive
[41] 12 Summer 2025 Operational and Market Review.pptx

Western Interconnection–Canada

Western Canada experienced a heat wave from late August and through early September, breaking daily records in British Columbia and the Yukon and exacerbating the ongoing drought in western Canada. Wildfire activity also increased due to heat and dry conditions. The same period brought generation outages that triggered emergency operations in parts of western Canada.

Western Interconnection–United States

The western United States overall navigated last summer with the BPS experiencing relatively few emergency events, and demand in western assessment areas never reached or exceeded the projections for extreme demand from the *2025 SRA*. Variable resources performed as expected with the exception of California seeing much less solar generation than anticipated, 65% less solar than was projected ahead of the prior year's assessment. California's lower-than-expected solar did not result in energy shortfalls.

In Mexico, generation losses in late August triggered Level 3 EEAs, but the overall number of Level 3 EEAs was down year-on-year and on par with the number of Level 3 EEAs triggered in 2023 for the same seasonal period.

Despite the moderation in summer heat when compared to 2024, certain Rocky Mountain states saw record temperatures with Utah and Nevada recording their warmest years on record. The Rocky Mountain region saw peak demand surpass the projected normal demand conditions but remained under extreme demand projections.

2025 Summer Demand and Generation Summary at Peak Demand							
Assessment Area	Actual Peak Demand[1] (GW)	SRA Peak Demand Scenarios[2] (GW)	Wind – Actual[1] (MW)	Wind – Expected[3] (MW)	Solar – Actual[1] (MW)	Solar – Expected[3] (MW)	Forced Outages Summary[4] (MW)
MISO	121.6	116.3 121.6	1,105	6,039	12,323	9,123	8,856
MRO-Manitoba Hydro	3.5	3.4 3.6	0	48	0	0	252
MRO-SaskPower	3.6	3.6 3.8	232	310	26	9	0
MRO-SPP	54.5	54.8 57.5	8,130	5,556	810	492	4,370
NPCC-Maritimes	3.6	3.3 3.5	151	314	69	0	33
NPCC-New England	26.6	24.7 26.4	566	142	180	1,412	1,963
NPCC-New York	32	30.0 31.7	1,256	446	164	243	1,372
NPCC-Ontario	24.9	21.0 24.5	607	742	39	66	1,532
NPCC-Québec	23.0	22.3 23.3	790	885	0	0	5,029
PJM	160.7	146.2 158.7	4,515	1,855	7,730	6,244	15,945
SERC-C	43.2	41.9 45.7	84	370	714	1,053	701
SERC-E	44.8	42.5 45.7	0	0	3,200	5,022	2,407
SERC-FP	54.6	49.8 50.8	0	0	8,035	5,749	1,599
SERC-SE	46.4	45.7 55.9	0	0	3,366	7,728	1,380
TRE-ERCOT	83.7	85.2[5] 91.3[5]	14,509	9,396	16,961	22,962	11,095
WECC-AB	12.5	12.2 12.7	2,870	796	32	1,480	**
WECC-BC	9.8	9.3 10.0	293	149	4.8	0	**
WECC-CA	54	54.1 64.3	1,744	1,207	5,064	14,756	1,063

2025 Summer Demand and Generation Summary at Peak Demand							
Assessment Area	Actual Peak Demand[1] (GW)	SRA Peak Demand Scenarios[2] (GW)	Wind – Actual[1] (MW)	Wind – Expected[3] (MW)	Solar – Actual[1] (MW)	Solar – Expected[3] (MW)	Forced Outages Summary[4] (MW)
WECC-MX	3.5	3.8 4.1	2.5	50	296	227	**
WECC-NW	29.8	29.1 32.7	1,054	3,107	1,398	666	1,825
WECC-RM	13.4	13.8 15.0	2,313	1,359	1,571	1,669	1,954
WECC-Basin	13.8	13.6 15.0	931	911	2,660	2,231	0
WECC-SW	36.9	35.1 39.0	1,230	1,091	4,472	4,293	2,323
Highlighting Notes	Actual peak demand in the highlighted areas met or exceeded extreme scenario levels.		Actual wind output in highlighted areas was significantly below seasonal forecast.		Actual solar output in highlighted areas was significantly below seasonal forecast.		Actual forced outages above or below forecast by factor of two

Table Notes:
[1] Actual demand, wind, and solar values for the hour of peak demand in U.S. areas were obtained from the assessment areas.
[2] See NERC *2025 SRA* demand scenarios for each assessment area (pp. 14–33). Values represent the normal summer peak demand forecast and an extreme peak demand forecast that represents a 90/10, or once-per-decade, peak demand. Some areas use other basis for extreme peak demand.
[3] Expected values of wind and solar resources from the *2025 SRA*.
[4] Values from NERC Generator Availability Data System for the 2025 summer hour of peak demand in each assessment area. Highlighted areas had actual forced outages that were more than twice the value for typical forced outage rates used in the 2024 summer risk period scenarios in the *2025 SRA*.
[5] Texas RE-ERCOT peak demand scenarios are obtained by adding expected demand response (3.2 GW) to the demand scenarios found on p. 30 of the 2025 SRA.
**Data unavailable - Canadian assessment areas report to the NERC Generator Availability Data System on a voluntary basis, which can contribute to the absence of some values in certain assessment areas.

BEFORE THE UNITED STATES DEPARTMENT OF ENERGY

Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and Northern Indiana Public Service Company LLC	)))))	Order No. 202-26-29
Federal Power Act Section 202(c) Emergency Order: Midcontinent Independent System Operator and CenterPoint Energy Indiana South	))))	Order No. 202-26-30

Exhibit to
Motion to Intervene and Request for Rehearing and Stay of
Public Interest Organizations

Exhibit 190
MISO ERAS Cycle 4 Release

MISO accelerates resource additions with fourth ERAS cycle

3.3 GW of proposed capacity will strengthen reliability and meet growing demand

For Immediate Release

May 27, 2026

Media Contact

McKenzie Barbknecht

CARMEL, Ind. — MISO today announced the fourth cycle of projects to be evaluated under its Expedited Resource Addition Study (ERAS) process, marking another step forward in accelerating the deployment of critical generation resources across the region.

This latest cycle includes five projects totaling approximately 3.3 gigawatts (GW) of proposed new capacity. The portfolio consists of a mix of natural gas and solar resources located across MISO's North, Central and South regions. The projects are expected to be in-service by 2029.

"ERAS continues to deliver meaningful progress by moving viable projects forward with greater speed," said Aubrey Johnson, MISO's Vice President of System Planning and Competitive Transmission. "Each cycle reinforces its value as part of a coordinated strategy to meet evolving system needs."

The fourth cycle of ERAS projects includes:

- Big Cedar Combined Cycle (Alliant Energy) – 950 megawatts (MW) of new gas generation in Iowa
- Merom Generating Station (Hallador Power Company) – 515 MW of new gas generation in Indiana
- Neenah Generating Station (Alliant Energy/Wisconsin Power and Light Company) – 150 MW of new gas generation in Wisconsin
- Pumpkin Patch Solar (Pumpkin Patch Solar, LLC) – 200 MW of new solar generation in Illinois
- Richland Parish 3 & 4 (Entergy Louisiana) – 1,531 MW of new gas generation in Louisiana

Since its launch, the ERAS program has accepted or is currently validating 57 projects representing nearly 28 GW of proposed capacity. Of these, 25 projects representing approximately 11 GW of proposed capacity have advanced to completed generator interconnection agreements, with an additional 15 projects representing

approximately 8 GW of proposed capacity nearing completion. The program is capped at 68 projects and is scheduled to sunset on August 31, 2027.

“ERAS is one of several coordinated efforts underway to improve how projects advance through the generator interconnection process,” Johnson added. “From queue caps to new automation tools, we’re taking concrete steps to reduce timelines and better support our members and the communities that depend on them.”

To date, MISO has studied more than 19 GW of proposed capacity through the ERAS process.

Note: An earlier version of this news release included Blue Jacket Solar (Blue Jacket Solar, LLC), a 200 MW project in Illinois, and Malden Combined-Cycle Power Plant (NIPSCO), an 859 MW project in Indiana, which have since withdrawn from the ERAS process. It also included Tradewater Energy Storage (NextEra Energy), a 230 MW project in Kentucky, which was listed due to an administrative error and has since withdrawn. Big Cedar Combined Cycle (Alliant Energy), a 950 MW gas project in Iowa, has been added to this study cycle.

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MEDIA CONTACT:
McKenzie Barbknecht

About MISO

Midcontinent Independent System Operator (MISO) is an independent, not-for-profit organization that delivers safe, cost-effective electric power across 15 U.S. states and the Canadian province of Manitoba. 45 million people depend on MISO to generate and transmit the right amount of electricity every minute of every day. MISO is committed to reliable, nondiscriminatory operation of the bulk power transmission system and collaborating with all stakeholders to create cost-effective and innovative solutions for our changing industry. MISO operates one of the world’s largest energy markets with more than $53 billion in annual gross market energy transactions.

News Release Link

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