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U.S. Department of Energy
Office of Oil and Gas Global
Security and Supply Docket
Room FE-34
P.O. Box 44375
Washington, D.C. 20026-4375
Attention: Office of Natural Gas Regulatory Activities

Re: Cameron LNG, LLC

**DOE/FE Order Nos. 3059-B; 3620-A; 3680-B; 3391-C; 3797-A; and 3846-B FE
Docket Nos. 11-145-LNG; 14-204-LNG; 15-36-LNG; 11-162-LNG; 15-67-
LNG; and 15-90-LNG**

Semi-Annual Report

To the Office of Oil and Gas Global Security and Supply:

Cameron LNG, LLC (Cameron) is currently authorized to export domestically produced liquefied natural gas (LNG) by vessel from the Cameron LNG Terminal,¹ located in Cameron and Calcasieu Parishes, Louisiana, under the following orders:

¹ Cameron's facilities include the Liquefaction Project (Trains 1-3) and the Expansion Project (Trains 4-5).

- (i) DOE/FE Order Nos. 3059², 3620³, and 3680⁴, authorizing exports to any country with which the United States currently has, or in the future will have, a free trade agreement (FTA) requiring national treatment for trade in natural gas (FTA countries), under Natural Gas Act (NGA) Section 3(c);⁵ and
- (ii) DOE/FE Order Nos. 3391-A⁶, 3797⁷, and 3846⁸, authorizing exports to any other country with which trade is not prohibited by U.S. law or policy (non-FTA countries), under NGA Section 3(a).⁹

These orders authorize exports of LNG in a total combined volume equivalent to 1,287 billion cubic feet per year (Bcf/yr) of natural gas to FTA and non-FTA countries on a non-additive basis. Cameron is authorized to export LNG under each of the FTA and non-FTA orders through December 31, 2050.

One of the conditions of each of the DOE/FE authorizations listed above is that Cameron file semi-annual written reports (on or before April 1 and October 1 of each year) describing the progress of the planned liquefaction facility from which Cameron will export LNG. Cameron hereby submits its

² *Cameron LNG, LLC*, DOE/FE Order No. 3059, FE Docket No. 11-145-LNG, Order Granting Long-Term Multi- Contract Authorization to Export Liquefied Natural Gas by Vessel from the Cameron LNG Terminal to Free Trade Agreement Nations (Jan. 17, 2012), *amended by* DOE/FE Order No. 3059-A (Aug. 13, 2018) (extending commencement deadline), *amended by* DOE/FE Order No. 3059-B (Dec. 30, 2020) (extending export term for authorizations).

³ *Cameron LNG, LLC*, DOE/FE Order No. 3620, FE Docket No. 14-204-LNG, Order Granting Long-Term, Multi- Contract Authorization to Export Liquefied Natural Gas by Vessel from the Cameron LNG Terminal in Cameron Parish, Louisiana, to Free Trade Agreement Nations (Apr. 9, 2015), *amended by* DOE/FE Order No. 3620-A (Dec. 30, 2020) (extending export term for authorizations).

⁴ *Cameron LNG, LLC*, DOE/FE Order No. 3680, FE Docket No. 15-36-LNG, Order Granting Long-Term, Multi- Contract Authorization to Export Liquefied Natural Gas by Vessel from the Cameron LNG Terminal in Cameron and Calcasieu Parishes, Louisiana, to Free Trade Agreement Nations (July 10, 2015), *amended by* DOE/FE Order No. 3680-A (Nov. 2, 2020) (extending commencement deadline), *amended by* DOE/FE Order No. 3680-B (Dec. 30, 2020) (extending export term for authorizations).

⁵ 15 U.S.C. § 717b(c).

⁶ *Cameron LNG, LLC*, DOE/FE Order No. 3391-A, FE Docket No. 11-162-LNG, Final Opinion and Order Granting Long-Term Multi-Contract Authorization to Export Liquefied Natural Gas by Vessel From the Cameron LNG Terminal in Cameron Parish, Louisiana, to Non-Free Trade Agreement Nations (Sept. 10, 2014), *reh'g denied by* DOE/FE Order No. 3391-B (Sep. 24, 2015), *amended by* DOE/FE Order No. 3391-C (Dec. 30, 2020) (extending export term for authorizations).

⁷ *Cameron LNG, LLC*, DOE/FE Order No. 3797, FE Docket No. 15-967-LNG, Final Opinion and Order Granting Long-Term, Multi-Contract Authorization to Export Liquefied Natural Gas by Vessel From the Cameron Terminal Located in Cameron and Calcasieu Parishes, Louisiana, to Non-Free Trade Agreement Nations (Mar. 18, 2016), *amended by* DOE/FE Order No. 3797-A (Dec. 30, 2020) (extending export term for authorizations).

⁸ *Cameron LNG, LLC*, DOE/FE Order No. 3846, FE Docket No. 15-90-LNG, Opinion and Order Granting Long-Term, Multi-Contract Authorization to Export Liquefied Natural Gas by Vessel From Trains 4 and 5 of the Cameron LNG Terminal in Cameron and Calcasieu Parishes, Louisiana, to Non-Free Trade Agreement Nations (July 15, 2016), *amended by* DOE/FE Order No. 3846-A (Nov. 2, 2020) (extending commencement deadline), *amended by* DOE/FE Order No. 3846-B (Dec. 30, 2020) (extending export term for authorizations).

⁹ 15 U.S.C. § 717b(a).

semi-annual report for the six-month period ending September 30, 2024.

On December 7, 2012, in Docket No. CP13-25-000, Cameron filed an application with the Federal Energy Regulatory Commission (FERC) for authorization under Section 3 of the Natural Gas Act (NGA)¹⁰ to site, construct, and operate facilities for the liquefaction and export of domestically-produced natural gas at its existing LNG import terminal (Liquefaction Project). In an Order issued on June 19, 2014, FERC granted that authorization.¹¹ As of August 10, 2020, all three liquefaction trains of the Liquefaction Project were in commercial service. Additionally, Cameron has executed long-term contracts with project customers for export of LNG from the Liquefaction Project facilities.

On September 28, 2015, in Docket No. CP15-560-000, Cameron filed an application with FERC for authorization under Section 3 of the NGA to site, construct, and operate certain additional facilities for the liquefaction and export of domestically-produced natural gas at its existing LNG terminal (Expansion Project). In an Order issued on May 5, 2016, FERC granted that authorization.¹² On January 24, 2020, in Docket No. CP15-560-000, Cameron filed a request with FERC for an extension of time to construct and place into service the previously authorized Expansion Project facilities. On March 25, 2020, FERC granted a 48-month extension of time, through May 5, 2024, to complete all phases of the project as approved under Docket No. CP15- 560-000.¹³ On November 8, 2021, in Docket No. CP15-560-000, Cameron filed a request with FERC to waive the Commission's pre-filing process prior to submission of proposed amendments to the Expansion Project. On December 22, 2021, FERC granted the waiver request. Subsequently, on January 18, 2022 in Docket No. CP22-41-000, Cameron filed an abbreviated application with FERC for a limited amendment to the Expansion Project. In an Order issued on March 16, 2023, FERC granted that authorization, which includes the use of electric-driven refrigeration compressors.¹⁴ Per the requirements of the Order, all amended Expansion Project facilities must be constructed and made available for service by March 16, 2028.

Following completion of front-end engineering and design contracts with two parties, Bechtel Energy Inc. (Bechtel) and a joint venture between JGC America Inc. and Zachry Industrial Inc., Cameron selected Bechtel as the contractor for the Expansion Project. Bechtel subsequently performed

¹⁰ 15 U.S.C. § 717b.

¹¹ *Cameron LNG, LLC*, 147 FERC ¶ 61,230 (2014).

¹² *Cameron LNG, LLC*, 155 FERC § 61,141 (2016).

¹³ *Cameron LNG, LLC*, Docket No. CP15-560-000 (Mar. 25, 2020) (delegated letter order).

¹⁴ *Cameron LNG, LLC*, 182 FERC § 61,173 (2023).

value engineering and cost and schedule optimization work that was anticipated to culminate in an engineering, procurement and construction contract for the detailed design, equipment procurement, and construction of the Expansion Project.

After completion of the additional engineering work, Bechtel was not selected to proceed with the Expansion Project. Cameron re-bid the EPC work for the Expansion Project to further optimize the Expansion Project cost and schedule, and is conducting additional value engineering work through the end of 2024.

Procurement efforts are continuing. Cameron purchased 36” cryogenic butterfly valves to be used for tie-ins to support dual-loading operations from both onsite jetties. Additionally, Cameron entered into reservation agreements with the manufacturer of the main power transformers for future use in the Liquefaction Project.

Cameron and Entergy Louisiana, LLC, executed a new electric service agreement and tariff riders for the supply to Cameron of up to 950 MW of renewable power from new renewable resources to be located in Louisiana. 500 MW of the new renewable resources would fully offset the scope 2 emissions for the Liquefaction Project after being placed in service and the agreements provide a path toward full offset of scope 2 emissions for the Expansion Project. The electric service agreement and new tariff riders were approved by the existing lenders to the Liquefaction Project and the tariff was approved by the Louisiana Public Service Commission.

The Hackberry Carbon Sequestration project (Hackberry CS), a carbon capture storage facility designed to sequester CO₂ from industrial sources, continues to be advanced by affiliates of the Cameron joint venture partners. Hackberry CS would capture CO₂ from the Liquefaction Project and the Expansion Project and sequester it under nearly 8,000 acres of land to be obtained from Cameron. Hackberry CS prepared and submitted a UIC Class VI sequestration well application and other required state and federal long-lead permits in the third quarter of 2021 and anticipates approval to begin construction of a sequestration well in the first quarter of 2025. Hackberry CS could provide a commercially feasible method to reduce the carbon intensity of LNG from the Liquefaction Project and the Expansion Project, subject to final determination of the Hackberry CS cost and commercial arrangements, receipt of all permits and a final investment decision.

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Please contact me with any questions regarding this filing.

Respectfully submitted,

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