



Hurricane Dorian | Report #8

REPORT TIME & DATE: 9:00 AM EDT | Wednesday, September 04, 2019
INCIDENT START DATE: August 28, 2019
PRIMARY LOCATION(S): Florida, Georgia, South Carolina, and North Carolina
REPORT DISTRIBUTION: Public

EXECUTIVE SUMMARY

As of 8:00 AM EDT, Hurricane Dorian was 95 miles east-northeast of Daytona Beach, FL, moving north-northwest at 8 MPH, with maximum sustained winds of 105 MPH (category 2). Hurricane-force winds extend outward up to 60 miles and tropical storm-force winds extend outward up to 175 miles from the center. A turn toward the north is forecast by this evening, followed by a turn toward the north-northeast on Thursday morning. On this track, the core of Hurricane Dorian will move close to the Florida east coast and the Georgia coast through tonight. The center of Dorian is forecast to move near or over the coast of South Carolina and North Carolina Thursday through Friday morning. The DOE Energy Response Organization is activated to coordinate Emergency Support Function (ESF) – 12 response efforts. DOE is holding regular calls with industry and interagency partners to assess preparations, potential post-storm requirements, and any unmet needs.

Electricity Sector Summary

- Utilities across the potentially affected region are preparing for potential impacts from Dorian.
- Utilities are holding daily mutual assistance coordination calls and mutual assistance crews are pre-positioning throughout the potentially impacted region from over 36 states, the District of Columbia, and Canada to support restoration efforts post-storm.

Oil & Natural Gas Sector Summary

- Per the Energy Information Administration, stocks of fuel in the Lower Atlantic Region (PADD 1C: WV, VA, NC, SC, GA, and FL) are within the 5-year range, with gasoline 2% above the 5-year average and distillate (diesel) stocks 1% above 5-year average in the region.
- Jet fuel stocks are 11% above the 5-year average across the East Coast (PADD 1).
- While stocks throughout the region are robust, there have been reports of rolling retail fuel station outages from increased demand. Industry partners are working closely with the states to help expedite fuel resupply shipments.
- Retail fuel availability across Florida has stabilized.
- Widespread retail fuel station outages are not expected in Georgia or the Carolinas due to the smaller area forecast for potential impacts compared to the early forecast for Florida.
- Petroleum markets remain fully mobilized to resupply stations across the potential impacted states as needed.

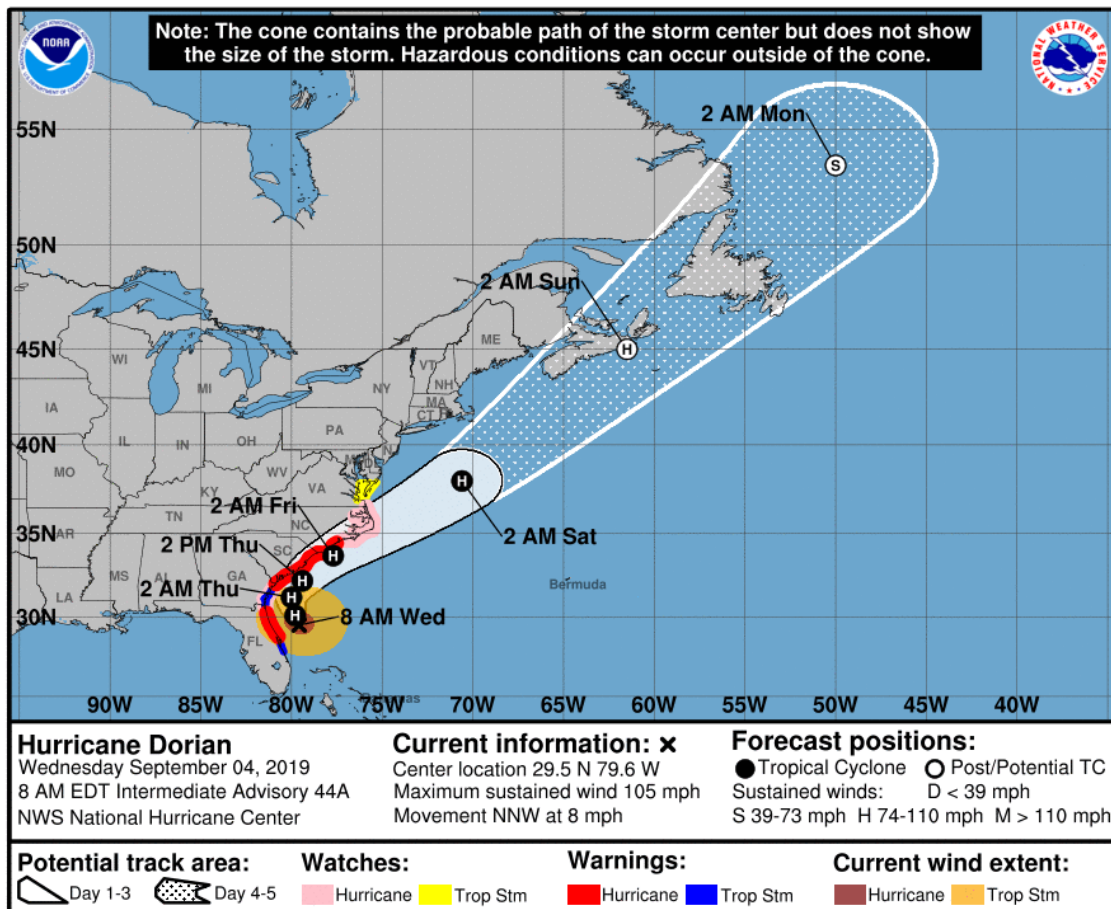


Hurricane Dorian

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Dorian is expected to produce 5 to 10 inches of rainfall, with isolated totals up to 15 inches, across coastal areas of the Carolinas and 3 to 6 inches, with isolated totals up to 9 inches, along the Atlantic Coast from Daytona Beach, FL to the Georgia-South Carolina border. Storm surge of 5 to 8 feet is possible from Isle of Palms, SC to Myrtle Beach, SC; 4 to 7 feet from the Savannah River to Isle of Palms, SC and Myrtle Beach, SC, to Cape Lookout, NC; and 4 to 6 feet from Cape Lookout, NC to Duck, NC, including Pamlico and Albemarle Sounds and the Neuse and Pamlico Rivers. Storm surge of 2 to 5 feet possible extending south to the Volusia/Brevard County line in Florida and north to Hampton Roads, VA.

A hurricane warning is in effect from the Volusia/Brevard county line to Ponte Vedra Beach, FL and north of the Savannah River to Surf City, NC. A tropical storm warning is in effect from the Sebastian Inlet, FL to the Volusia/Brevard county line and North of Ponte Vedra Beach, FL to the Savannah River.

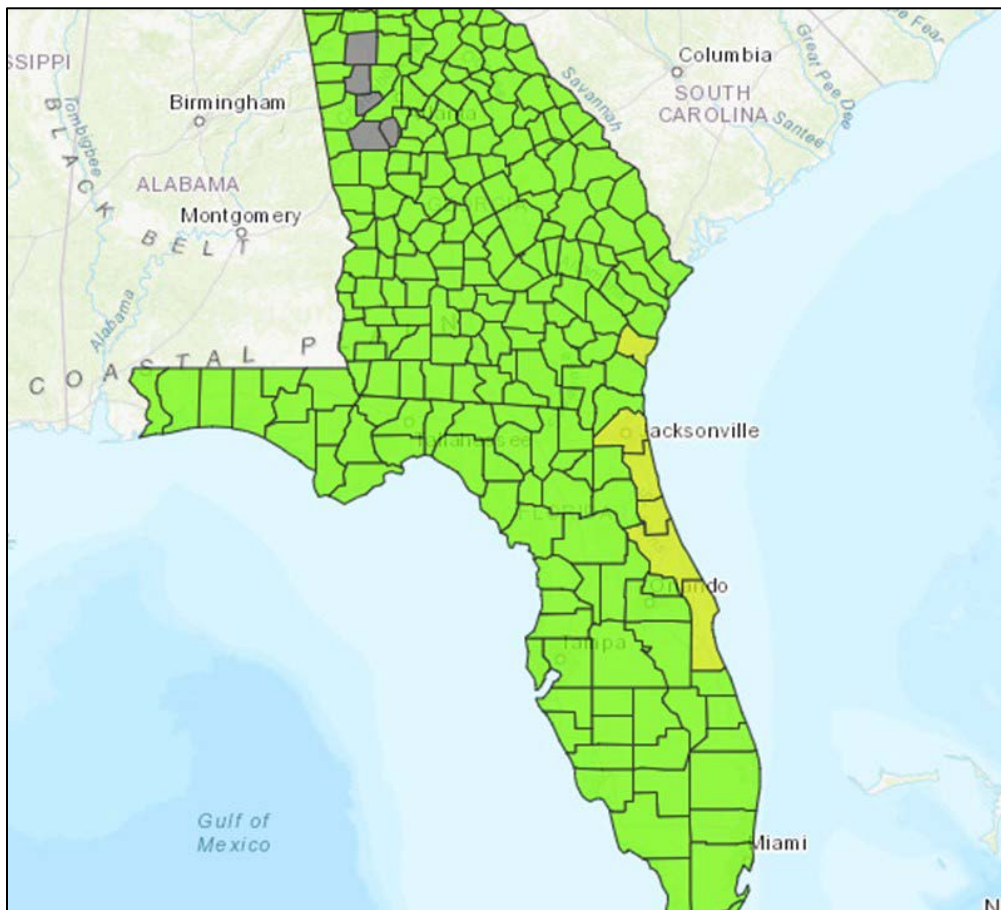


ELECTRICITY SECTOR

CURRENT POWER OUTAGES

- As of 9:00 AM EDT September 4, there are approximately 13,785 customers without power in Florida and Georgia.

ELECTRICITY OUTAGES <i>as of 9:00 AM EDT Sept. 4, 2019</i>		
Impacted State	Current Customers Outages	Percent of Total Customers in State without Power
Florida	12,653	0.12%
Georgia	1,132	0.19%
Total	13,785	-



STATE DETAILS

Florida

According to the Florida Division of Emergency Management, there are almost 28,000 linemen, tree crews, and support personnel staged around Florida to help quickly restore power. Mutual assistance crews from over 30 states and Canada are pre-positioned to support restoration efforts.

Florida Investor-Owned Utilities**Florida Power & Light (FPL)**

- FPL crews are out restoring power and will continue to actively address outages as long as conditions allow. FPL reports that, as of 12:00 PM on September 3, the company had already restored numerous outages over the time the storm has been impacting Florida's coast. The outages have primarily been caused by trees and debris on power lines.
- FPL also clarified that, contrary to rumor, it has not shut off power to the Indian River barrier island. Fewer than 100 homes in Indian River County were out of power as of 11:20 AM on September 3.
- As of September 2, FPL had assembled the largest pre-storm restoration workforce in its history, with approximately 17,000 personnel from FPL and other utilities positioned over more than a dozen staging sites.
- FPL has also pre-staged 60 drone teams and 75 fuel trucks to supply over 3.5 million gallons of fuel. It has also assembled thousands of transformers and poles as well as sleeper trailers with over 4,000 beds to support crew members.
- FPL has installed a water barrier around the St. Augustine substation to prevent flooding.

Duke Energy Florida

- Duke Energy Florida warns customers to expect significant power outages.
- As of September 2, Duke Energy Florida had 6,500 crew members positioned in Florida — three times the typical number of crew members in the state. This includes over 1,500 transmission and distribution vegetation management workers and over 4,300 transmission and distribution line personnel. Hundreds of support personnel, including mechanics, field coordinators, and logistics specialists, are also positioned to support future restoration efforts.
- Duke Energy Florida has 3,000 line trucks pre-staged in Sumter County to respond to future restoration efforts, with additional crews pre-staged in Davenport and Clearwater. Over 50 power companies are using a parking lot in The Villages in Sumter County as a staging area for restoration, including Florida companies and the out-of-state utilities providing additional aid.

Florida Municipal and Cooperative Utilities

- More than 1,000 line workers have traveled to Florida from out of state to supplement the 6,000 personnel in the Florida public power community assisting with future restoration efforts. Out-of-state line workers from Minnesota, Texas, Delaware, and Missouri continue to travel to Florida to assist with future restoration efforts under mutual aid agreements.
- The Florida Municipal Power Authority announced August 30 that it is working with its operating partners to prepare power plant sites in Kissimmee, Fort Pierce, Key West, Orlando, and St. Lucie

for the storm. Preparation work includes shelter-in-place plans for plant personnel, contingency plans to prevent damage if generating units are shut down during the storm, and damage assessment procedures to implement after the storm.

Jacksonville Electric Authority (JEA)

- As of August 30, JEA crews were trimming trees, prestaging materials, and working to stand up an emergency operations center. Austin Energy is providing mutual aid to JEA and has sent crews and equipment to the JEA service area.

Orlando Utilities

- As of August 30, Orlando Utilities reported that it is planning to triple its resources for storm response. Out-of-state crews from Nebraska, Missouri, and Michigan began arriving on August 31 to assist with response efforts.

Georgia

Georgia Investor-Owned Utilities

Georgia Power

- As of September 2, Georgia Power continues to encourage customers to monitor storm forecasts and prepare for potential impacts.

Georgia Municipal and Cooperative Utilities

- Electric Cities of Georgia reports that additional crews have been assigned to the city of Albany, with crews prepositioning on September 2 and other crews on standby to support potential impacts from Hurricane Dorian.
- The Coastal Electric Members Cooperative reports that the utility has been preparing for potential outages and prestaging line crews and materials as well as contracting with vegetation management crews.

South Carolina

South Carolina Investor-Owned Utilities

Duke Energy Carolinas

- As of September 3, Duke Energy Carolinas reports that nearly 9,000 field personnel are ready to respond to Hurricane Dorian in the Carolinas.

Dominion Energy South Carolina

- Dominion Energy South Carolina has secured three helicopters for future damage assessment and restoration. The company also has over 2,000 company and on-system contract resources and 140 contract line workers and tree contractors ready to assist with future restoration efforts.
- Dominion Energy South Carolina expects to secure several hundred additional line workers and tree contractors on September 4.

South Carolina Municipal and Cooperative Utilities

Berkeley Electric Cooperative

- In addition to urging customers to prepare for Hurricane Dorian, Berkeley Electric Cooperative is reminding customers that the utility may shut down substations at Kiawah and Seabrook islands depending on tide surge and winds.

North Carolina

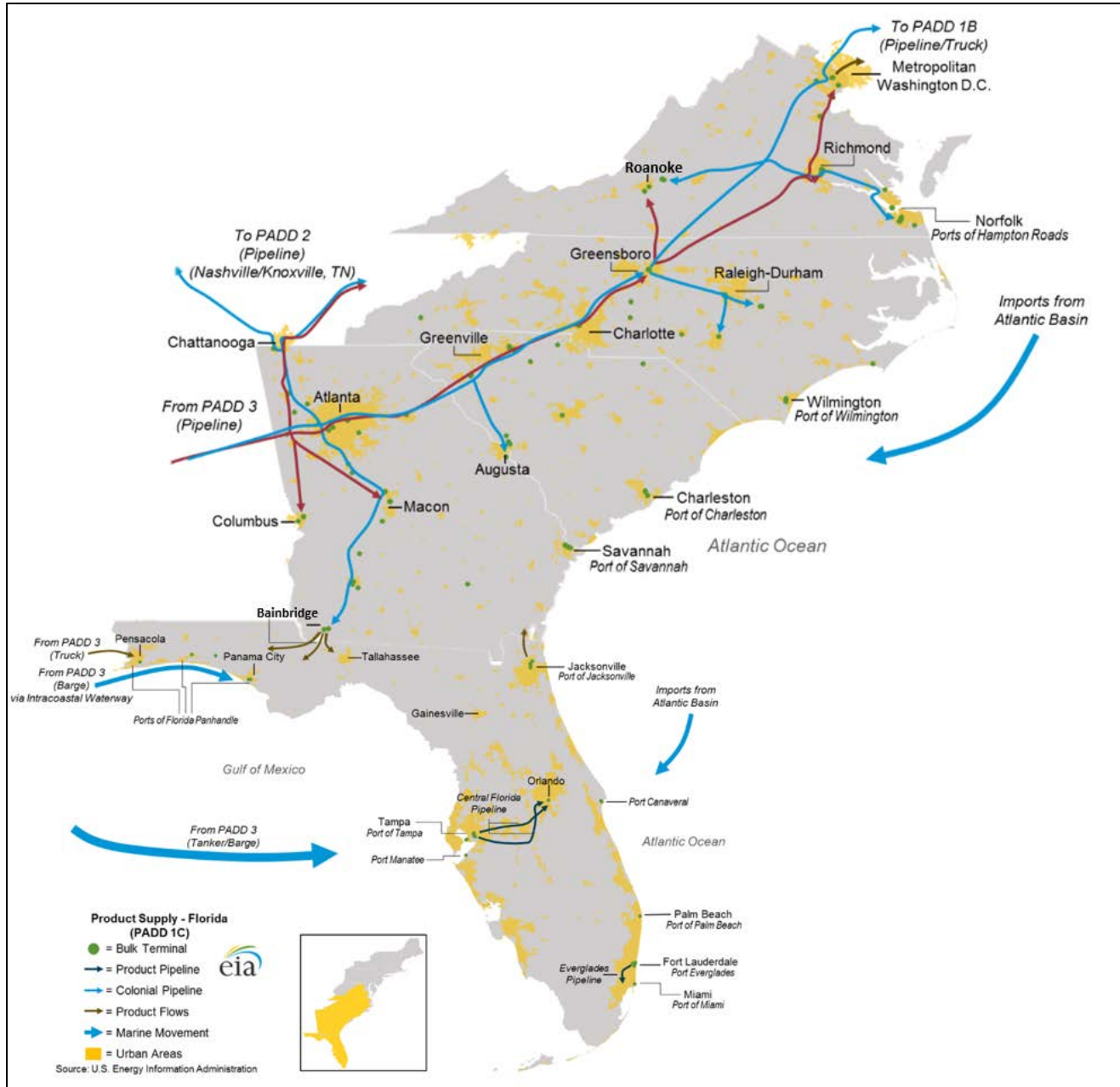
North Carolina Investor-Owned Utilities

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PETROLEUM SECTOR

Florida's fuel supply relies overwhelmingly on domestic- and foreign-sourced marine deliveries to the state's ports along the Atlantic Ocean (Port Everglades, Port Canaveral, and Jacksonville) and Gulf of Mexico (Port Tampa, Port Manatee, Panama City, and Pensacola). Parts of northern Florida also receive fuel truck deliveries from Georgia and Alabama. Within Florida, the Central Florida Pipeline delivers fuel from the Port of Tampa to the Orlando market. In **Georgia, South Carolina, and North Carolina** virtually all fuels are supplied via the Colonial and Plantation pipeline systems from the Gulf Coast. Ports along the states' Atlantic coasts (Savannah, Charleston, and Wilmington) also receive smaller volumes of fuels via ocean-going marine vessels from foreign and domestic sources.



PORTS

- The U.S. Coast Guard has set the following conditions for East Coast ports in preparation for Hurricane Dorian. Listed in the table are select ports that receive petroleum products.

Status of Florida Ports as of 8:00 AM EDT 09/04/2019				
Port Sector	Port	2017 Volumes (b/d)*	Status	Date Stamp
Jacksonville	Jacksonville, FL	86,000	Port Condition Zulu. Closed.	9/3
	Port Canaveral, FL	54,000	Port Condition Zulu. Closed.	9/2
Miami	Miami, FL	1,000	Open. No Restrictions.	9/3
	Port Everglades, FL	298,000	Open. No Restrictions.	9/3
St. Petersburg	Tampa, FL	297,000	Open. No Restrictions.	9/3
	Port Manatee, FL	12,000	Open. No Restrictions.	9/3
Savannah	Savannah, GA	19,000	Port Condition Zulu. Closed.	9/4
Charleston	Charleston, SC	24,000	Port Condition Zulu. Closed.	9/4
North Carolina	Wilmington, NC	3,000	Port Condition Yankee. Open with restrictions.	9/4
Hampton Roads	Norfolk, VA	14,000	Port Condition X-Ray. Open.	9/3

*Transportation fuels (gasoline, distillate, jet fuel) volumes only.

Source: U.S. Coast Guard [Homepage](#), U.S. Army Corp of Engineers, EIA Company Level Imports

FUEL INVENTORIES

- According to the Energy Information Administration (EIA), for the week ending on August 23, the Lower Atlantic Region (PADD 1C: WV, VA, NC, SC, GA, and FL) had total stocks of:
 - 27.9 million barrels of gasoline (2% higher than the 5-year average for this time of year).
 - 12.9 million barrels of distillate (1% higher than the 5-year average for this time of year).
- EIA reports the East Coast Region (all of PADD 1) had 10.7 million barrels of total jet fuel stocks for the week ending on August 23. This is 11% higher than the 5-year average for this time of year. Jet fuel stocks are not broken out by sub-PADD region.

FUEL TRUCKING

- Florida Highway Patrol (FHP) is escorting fuel trucks to ensure fuel reaches critical areas more quickly. The State of Florida is working closely with the fuel industry to ensure there is an adequate fuel supply statewide.
- Through Executive Order 19-189, Governor DeSantis waived hours of service and truck weights for fuel trucks. Neighboring states, specifically Alabama, Mississippi and Georgia have waived requirements as well so that fuel can be moved more quickly and efficiently.
- The State of Florida is working with industry partners to identify additional resources, including trucks, staff, etc. to distribute more fuel throughout the state.

OFFSHORE PRODUCTION

- Planned evacuations of non-essential personnel were executed at six offshore platforms on August 30 as a precautionary measure.

RETAIL FUEL STATIONS

- According to the Florida Petroleum Marketers Association, gasoline demand at retail stations in Florida has begun to stabilize to normal levels as residents have filled their tanks and the revisions to the storm track. Continuing to see above-normal demand in Jacksonville and northern areas of Florida based on latest storm track, but demand has peaked. Petroleum markets remain fully mobilized to resupply stations as needed.

EMERGENCY DECLARATIONS & WAIVERS**EMERGENCY DECLARATIONS**

To provide vital supplies and transportation services to a disaster area in the United States, emergency declarations may be issued by the President, Governors of States, or Federal Motor Carrier Safety Administration (FMCSA). These declarations trigger the temporary suspension of certain Federal safety regulations, including Hours of Service, for motor carriers and drivers engaged in specific aspects of the emergency relief effort. See [49 CFR 390.23](#) for the actual emergency regulation.

State Emergency Declarations and HOS Waivers as of 8:00 PM EDT 09/04/2019

State/Territory	Details	Effective Dates		Status
		Start	End	
AL, FL, GA, KY, LA, MS, NC, SC, TN, VA, PR, USVI	FMCSA Regional Declaration of Emergency (Hour-of-Service Wavier)	8/29/2019	9/28/2019	Active
FL	Federal State of Emergency	8/30/2019	--	Active
Seminole Tribe of FL	Federal State of Emergency	9/1/2019	--	Active
GA	Federal State of Emergency	9/2/2019	--	Active
SC	Federal State of Emergency	9/2/2019	--	Active
Florida	State of Emergency	8/28/2019	60 days unless extended	Active
Georgia (21 counties)	State of Emergency	8/29/2019	--	Active
South Carolina	State of Emergency	8/31/2019	30 days unless extended	Active
North Carolina	State of Emergency	8/30/2019	30 days unless extended	Active
Tennessee	State of Emergency	9/2/2019	--	Active
Virginia	State of Emergency	9/2/2019	--	Active
Kentucky	HOS Waiver	8/30/2019	9/29/2019	Active
Puerto Rico	State of Emergency	8/26/2019	Until rescinded	Active
Virgin Islands	State of Emergency	8/28/2019	Until rescinded	Active

Sources: [U.S. Department of Transportation](#); [White House](#); Governor Office Websites

FUEL WAIVERS

The Environmental Protection Agency (EPA), working with the Department of Energy (DOE), responds quickly to address fuel supply disruptions caused by hurricanes or other natural disasters by issuing emergency waivers of certain fuel standards in affected areas. The table below lists fuel-related waivers issued by the EPA:

Fuel Waivers as of 2:30 PM EST 09/03/2019				
State/Territory	Details	Effective Dates		Status
		Start	End	
Florida	RVP and RFG Waiver	8/30/2019	9/15/2019	Active
Florida	Restriction on red-dyed diesel fuel for highway use	8/30/2019	9/15/2019	Active
Florida	NAA for Vapor Recovery Systems at Fuel Distribution Terminals	8/30/2019	9/15/2019	Active
Florida	NAA for Loading of Tanker Trucks at Fuel Distribution Terminals	8/30/2019	9/15/2019	Active
Georgia	NAA for Loading of Tanker Trucks at Fuel Distribution Terminals	8/30/2019	9/15/2019	Active
South Carolina	NAA for Loading of Tanker Trucks at Fuel Distribution Terminals	8/30/2019	9/15/2019	Active

Sources: [U.S. Department of Transportation](#); Governor Office Websites

In order to minimize or prevent the disruption of an adequate supply of gasoline for evacuees in the designated areas, the EPA has issued temporary waivers in Florida for:

- Gasoline Reid Vapor Pressure (RVP) regulations requiring the use of low volatility conventional gasoline (CG) during the high ozone season are found at 40 C.F.R. § 80.27. The waiver allows use of higher vapor pressure gasoline about two weeks earlier than normal.
- Reformulated gasoline (RFG) regulations at 40 C.F.R. § 80. 78(a)(7), which prohibit any person from combining any reformulated blendstock for oxygenate blending (RBOB) with any other gasoline, blendstock, or oxygenate, except for the oxygenate of the type and amount specified by the refiner that produced the RBOB.
- Highway diesel fuel “no red dye” requirements, thus allowing the sale, distribution and use of red dyed non-road locomotive and marine (NRLM) diesel fuel for use in highway diesel vehicles, but the diesel fuel must meet the 15ppm standard set forth at 40 C.F.R. § 80.520.

The EPA has also issued No Action Assurance (NAA) in some states for:

- Loading of Tank Fuel Trucks at Petroleum Distribution Terminals: no enforcement of tank tightness and documentation requirements of 40 C.F.R. Part 60, Subpart XX, 40 C.F.R. Part 63 Subpart R, and any counterpart in the Florida SIP.
- Vapor Recovery Systems at Fuel Distribution Terminals: no enforcement of vapor recovery requirements for fuel loading and unloading under 40 C.F.R. Part 60, Subpart XX, 40 C.F.R. Part 63 Subparts R, Y, CC, and BBBB, and any counterpart in the Florida SIP.

OTHER FEDERAL WAIVERS

- On August 30, the **Pipeline and Hazardous Materials Safety Administration (PHMSA)** issued an **Emergency Stay of Enforcement** for interstate pipeline operators in Florida dealing with the situation presented by Hurricane Dorian. PHMSA is considering providing similar notices for other states that may be affected. Specifically, PHMSA will not object to waiving the following requirements:
 - Pre-employment and random drug testing to facilitate mutual aid amongst operators (49 CFR 199.105).
 - All pipeline workers performing critical safety tasks, known as “covered tasks,” are properly qualified and familiar with regulatory and company policies and procedures. (49 CFR Part 192 Subpart N and 49 CFR Part 195 Subpart G).