



## Situation Report

### Tropical Depression Florence - Southeastern United States - 17 Sep 18 (Update 12)

<b>Date As Of:</b> 09/17/2018 13:49:23	<b>Sitrep Update #:</b> 12
<b>Incident Start Time:</b> 09/09/2018 00:00:46 <b>Incident End Time:</b> Ongoing	<b>Incident Location:</b> Southeastern United States
<b>Impacted Sectors:</b> Communications, Dams, Emergency Services, Energy, (Oil), (Natural Gas), (Electricity), Government Facilities, (Educational Facilities), (National Monuments and Icons), Healthcare and Public Health, Nuclear Reactors, Materials and Waste, Transportation Systems, (Aviation), (Highway and Motor Carrier), (Maritime Transportation Systems), (Mass Transit and Passenger Rail), (Freight Rail)	<b>Reported Cause of Incident:</b> Tropical Weather
<b>Interagency Coordination:</b> FEMA DOE	<b>On Scene Agencies:</b> IP Region 2, 3, 4 FEMA Region 2, 3, 4
<b>Owner/Operator(s) Involved:</b> IP Region 2, 3, 4 FEMA Region 2, 3, 4 Federal Railroad Administration (FRA)	<b>Source of Information:</b> National Hurricane Center, Federal Railroad Association, National Risk Management Center (NRMC), The US Department of Energy (DOE)

#### Incident Summary:

##### INCIDENT SUMMARY

As of 0500 EDT on 17 Sep, the National Hurricane Center has issued its final advisory for Tropical Depression (TD) Florence. Public Advisories from the National Oceanic and Atmospheric (NOAA) will provide updates as long as the system remains a flood threat. TD Florence continues to produce widespread heavy rains over parts of North Carolina and northeastern South Carolina into Virginia. Flash flooding will continue over portions of the Western Mid-Atlantic Region.

As of 1100 EDT, TD Florence was located approximately 240 miles West of Charlottesville, VA. Florence was moving toward the northeast near 15 mph with maximum sustained winds near 25 mph with higher gusts. There are currently no coastal watches or warnings in effect, but flash flood warnings are currently in effect across portions of Central North Carolina into far Southern Virginia.

#### KEY POINTS

TD Florence is expected to produce heavy and excessive rainfall over the next couple of days. Heavy rains along with remnants of Florence will spread from the Northeast to the coastal New England that creates the risk of flash flooding by Tuesday, 18 Sep. All precipitation is expected to proceed away from the east coast into the Atlantic Ocean by Wednesday, 19 Sep.



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## CRITICAL INFRASTRUCTURE SECTOR IMPACTS

### COMMUNICATIONS

As of 1700 EDT on 16 Sep, FEMA reported minimal impacts to all broadcast systems in Virginia, North Carolina, and South Carolina. In each state, 99 percent of major communications switching sites are operational and on commercial power. All cell sites in Virginia are operational. All Public Safety Answering Points are operational or rerouted for each state.

### DAMS

As of 2008 EDT, Boiling Springs Lake Dam and Sandford Lake Dam in Brunswick County, North Carolina reportedly failed at 1915 EDT on 16 Sep but posed no risk to public safety. The Dam failed due to piping and overtopping.

Richmond Mills Dam and Fair Lake Dam have been compromised and evacuations prompting evacuations.

As of 2145 EDT NPPD Region IV, reported the Headwater Dam in Ashe County, NC had breached due to flooding.

### EMERGENCY SERVICES

As of 1830 EDT on 16 Sep, NPPD's National Risk Management Center (NRMC) indicated that FEMA reported 173 shelters are open in North Carolina (19,417 population), and 52 shelters in South Carolina (3,204 population).

### ENERGY

#### (Electricity)

As of 1210 EDT, IP Region IV reported over 498,000 customers are still experiencing power outages across North Carolina, over 483,000 in South Carolina and over 14,000 in Virginia. Crews continue to work with utilities on access and routing to impacted areas but are unable to operate in heavily flooded areas. Crews across the affected regions are performing damage assessments and restorations as weather conditions permit. Utilities are expected to begin providing initial estimated restoration timelines early this week. Fluctuations in the outage numbers are expected and normal during large-scale restoration efforts.

The Department of Energy (DOE) continues to work with utilities on access and routing to impacted areas. Crews are unable to operate in heavily flooded areas or when wind speeds are over 30 mph.

#### (Oil & Natural Gas)

As of 0700 EDT, the DOE reported coastal areas are experiencing widespread outages at retail fuel stations due to power outages and conditions preventing resupply from terminals. All ports have reopened except Wilmington, NC. Colonial and Plantation pipeline remain in operation.

### HEALTHCARE AND PUBLIC HEALTH

IP Region IV reported the following hospitals have lost power and running on generator power: Carteret General



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Hospital (Carteret County), Cape Fear Memorial Hospital (Bladen County, NC) and Cape Fear Valley Medical Center (Hoke County). A total of 39 hospitals are in the area of concern with 34 open.

**NUCLEAR REACTORS, MATERIALS, AND WASTE**

The Brunswick Nuclear Power Plant and the Global Nuclear Fuels plant near Wilmington, NC remain closed with the possibility of reopening today, 17 Sep.

**TRANSPORTATION SYSTEMS**

(Aviation)

South Carolina

All airports in South Carolina are open.

North Carolina

Raleigh-Durham International Airport (RDU), Fayetteville (FAY) and Piedmont-Triad (GSO) are open and operational. Pitt-Greenville (PGV), Coastal Carolina (EWN), Jacksonville (OAJ), and Wilmington (ILM) remain closed but are scheduled to resume operations sometime between 17 - 20 Sep as situations improve.

(Highway and Motor Carrier)

The Department of Interior reported approximately 500 roads are closed or impassable in North Carolina and the city of Wilmington is currently inaccessible via major highways.

(Maritime Transportation Systems)

FEMA reported the USACE and the USCG conducted assessments to port facilities in Elizabeth City, Nags Head and the Port of Wilmington and reported minimum damage.

All ports between Baltimore, Maryland, and Savannah, Georgia are open without restrictions. Due to damage and power loss, the ports in Wilmington and Morehead City, North Carolina remain closed. Both ports will reopen after survey damage by the U.S Coast Guard (USCG).

(Freight Rail)

As of 0700 EDT, FEMA reported that Buckeye reported their facility in Wilmington, NC sustained the failure of at least three power poles and are sending a generator from another staging area to the terminal.

Norfolk Southern restored service from Greensboro to Goldsboro, North Carolina. East of Goldsboro remains inaccessible due to flooding. Wilmington Terminal Railroad reported that the Port of Wilmington Station may have extensive damage and may remain closed through next week.

As of 0300 EDT, IP Region IV reported CSXT is not operating trains in eastern, southeastern, and central NC or northeastern SC. On 16 Sep, four CSXT train derailment of four locomotives and an unknown number of rail cars near milepost 270.1 in Lilesville, NC due to the after-effects of the storm. None of the train cars were leaking fuel.

Most North Carolina Short Line Railroads have suspended service today. Both Eastern and Central NC Short Lines at the North Carolina State Ports are reported to be underwater and will be shut down through Wednesday, 19 Sep. The



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yard tracks at the Morehead City Port remain underwater.

(Mass Transit and Passenger Rail)

IP Region IV reported all passenger rail service in North Carolina remains suspended today. Amtrak east coast long distance services are suspended until 19 Sep or 20 Sep depending on safe track conditions mainly through southeastern NC and Northeastern South Carolina. Intrastate Carolinian and Piedmont services between Raleigh and Charlotte are scheduled to be restored on Tuesday, 18 Sep.

#### WATER AND WASTEWATER SYSTEMS

As of 1700 EDT on 16 Sep, FEMA indicated that North Carolina reported 94 Public Water Systems with restrictions affecting over 488,000 persons. Due to flooding, multiple wastewater systems loss integrity and primary and backup power in the following counties in North Carolina: Carteret, Craven, Duplin, New Hanover, Onslow, and Sampson.

FEMA reported that Jacksonville Waste Water Treatment Plant lost generator power, and the generator is unable to be repaired. The power outage is likely to impact potable water production for local hospital, shelters, and first responders. USACE is working to get another generator.

Traffic Light Protocol (TLP) Recipients may share **TLP: GREEN** information with peers and partner organizations within their sector or community, but not via publicly accessible channels. Information in this category can be circulated widely within a particular community. **TLP: GREEN** information may not be released outside of the community.