



Situation Report

Tropical Depression Florence - Southeastern United States - 16 Sep 18 (Update 10)

Date As Of: 09/16/2018 05:52:26	Sitrep Update #: 10
Incident Start Time: 09/09/2018 00:00:46 Incident End Time: Ongoing	Incident Location: Southeastern United States
Impacted Sectors: 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)	Reported Cause of Incident: Tropical Weather
Interagency Coordination: Summary	On Scene Agencies: IP Region 2, 3, 4 FEMA Region 2, 3, 4
Owner/Operator(s) Involved: IP Region 2, 3, 4 FEMA Region 2, 3, 4 Federal Railroad Administration (FRA)	Source of Information: National Hurricane Center, Federal Railroad Association, National Risk Management Center (NRMCC), The US Department of Energy (DOE)

Incident Summary:

INCIDENT SUMMARY

As of 0500 EDT on 16 Sep, the National Hurricane Center downgraded Tropical Storm Florence to a Tropical Depression as it continued to move slowly over South Carolina. Florence is located approximately 20 miles southwest of Columbia, SC and moving toward the west near eight mph with maximum sustained winds decreasing to near 35 mph with higher gusts. Continued weakening is forecast over the next few days while Florence moves farther inland.

KEY POINTS

Florence is still expected to produce heavy and excessive rainfall in most of North Carolina, as well as northern South Carolina and western/southwestern Virginia. Rainfall will produce catastrophic flash flooding and river flooding with the potential risk for landslides in western North Carolina and far southwestern Virginia. All watches and warnings have been discontinued.

CRITICAL INFRASTRUCTURE SECTOR IMPACTS

COMMUNICATIONS



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As of 2000 EDT on 15 Sep, the Department of Interior (DOI) reported that 20 DOI Bureau sites have lost network connectivity in North and South Carolina.

As of 1715 EDT on 15 Sep, the NPPD National Risk Management Center (NRMC) reported that 81.35 percent of reported cell sites across North Carolina are operational, as are 94.88 percent in South Carolina, 100 percent in Virginia, and 99.66 percent in Georgia.

As of 1700 EDT, FEMA reported the VIPER, North Carolina's state-wide emergency responder radio network, is stable. The New Bern area in North Carolina has major telecommunications outages because remote switches are down. FEMA is using private sector messaging networks to share information.

The National Coordinating Center for Communications (NCC) is working with key stakeholders to prioritize power restoration and generator re-fueling for critical facilities.

DAMS

As of 0300 EDT on 16 Sep, IP Region IV reported the Sanford Dam located at Boiling Springs Lake in Brunswick County, North Carolina was overtopping and a controlled breach was being considered. However, at 1930 EDT on 15 Sep, before the controlled breach could be conducted, the dam breached on its own due to the overtopping.

As of 1700 EDT on 15 Sep, FEMA reported in North Carolina the US Army Corps of Engineers deployed Dam Safety Subject Matter Experts they are coordinating with the state on potential concerns and establishing additional reach back support as necessary.

On 15 Sep, the South Carolina Department of Health and Environmental Control (DHEC) have identified 27 dams at risk, which are under surveillance as part of a pre-storm assessment of 262 regulated dams across the state. DHEC is partnering with the State Guard to monitor these structures as conditions allow. DHEC will conduct post-storm assessments of the above dams. They are currently conducting surveys of high hazard dams, hog lagoons, and CAFO's for potential damage.

EMERGENCY SERVICES

As of 1700 EDT on 15 Sep, FEMA reports there are currently 271 shelters operating within North Carolina (173), South Carolina (82), Georgia (1), and Virginia (15), supporting approximately 27,000 evacuees.

ENERGY (Electricity)

As of 0300 EDT on 16 Sep, IP Region IV reported approximately 56,888 power outages for South Carolina, down from the 138,000 reported at 1400 EDT.

As of 0130 EDT on 16 Sep, IP Region IV reports approximately 677,112 power outages in North Carolina, which is



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down from 815,000 reported at 1400 EDT on 15 Sep. 84 percent of the outages are in the Eastern District, 11 percent in the Central District, and 4 percent in the Western District.

(Oil & Natural Gas)

As of 1715 EDT on 15 Sep, NRMC reported there are localized retail fuel station outages due to increased demand from evacuees, with resupply shipments expected after the storm passes. Post-storm supply and re-supply efforts could be hindered due to electrical outages and communication disruptions. The Environmental Protection Agency (EPA) issued a waiver to North and South Carolina which should alleviate driver and tanker shortages, but resupply operations will cease until the storm passes.

GOVERNMENT FACILITIES

As of 2000 EDT on 15 Sep, DOI reports at least 10 national parks and historic monuments are closed across North Carolina, South Carolina, Georgia, and Virginia. 22 U.S. Fish and Wildlife-staffed stations have been impacted by Florence in North Carolina, South Carolina, and Georgia.

As of 1603 EDT, the General Services Administration reported a total of 68 federal buildings were closed across Virginia, North Carolina, South Carolina, and Georgia.

HEALTHCARE AND PUBLIC HEALTH

As of 1700 EDT on 15 Sep, FEMA reported, in the area of concern, 10 hospitals are closed and 18 are sheltering-in-place; 39 nursing homes are closed and 119 are sheltering-in-place; and 25 VA medical facilities are closed.

NUCLEAR REACTORS, MATERIALS, AND WASTE

As of 1700 EDT on 15 Sep, FEMA Region IV reports the Brunswick Nuclear Power Plant obtained superficial damage that's not affecting operations, but there is currently no access to the plant due to road conditions. The Technical Support Center (TSC) has lost power and the non-emergency generator has failed, and commercial power line is unavailable.

TRANSPORTATION SYSTEMS

(Aviation)

As of 1730 EDT on 15 Sep, NRMC reported the following airports remain closed in South Carolina: Myrtle Beach International Airport, Florence Regional Airport, and several other regional airports.

As of 0832 EDT on 15 Sep, FEMA reported Fayetteville Regional/Grannis Field Airport is open with constraints, while Wilmington International, Rocky Mount-Wilson, and other Wilmington airports are expected to resume operations on 16 Sep.



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(Highway and Motor Carrier)

As of 1730 EDT on 15 Sep, the North Carolina Department of Transportation (NCDOT) reports several hundred minor roads remain either closed, partially obstructed, or heavily congested due to the effects of Florence.

As of 1715 EDT on 15 Sep, NRMC reported access to the Barrier Islands in North Carolina is cut off due to the closure of 11 bridges.

As of 1259 EDT on 15 Sep, FEMA reported that major highways I-26, I-74, I-77, I-73, and I-85 in North Carolina are now clear. Detours are in place while I-95 remains closed near Fayetteville, North Carolina.

(Maritime Transportation Systems)

As of 0728 EDT on 15 Sep, FEMA reported the Port of Hampton Roads and other Virginia ports are open and have returned to normal operations. In North Carolina, the ports of Morehead City and Wilmington remain closed. In South Carolina, the port of Georgetown remains closed while the ports of Beaufort and Charleston are open. In Georgia, the Ports of Savannah and Brunswick are open.

(Mass Transit, Passenger Rail, and Freight Rail)

As of 0300 EDT on 16 Sep, IP Region IV reported CSXT Freight Train Service has suspended service on all of its rail corridors in eastern, southeastern and central North Carolina. CSXT has also suspended operations on its Hamlet Sub Division between Hamlet and Columbia, SC due to numerous trees down on the line. All CSXT facilities and yards in North Carolina are reporting no damage at this time.

IP Region IV also reports, Norfolk Southern (NS) Freight Train Service suspended all service on its rail corridors east and south of Raleigh, North Carolina. NS Recovery teams will move out over its corridors 16 Sep for detailed inspections and evaluations. A major washout (100ft.) has occurred at "Falling Creek" which is 19.5 miles east of Goldsboro. Additionally, the railroad bridge at "Southwest Creek" is completely submerged and may be compromised. The bridge is 29.6 miles east of Goldsboro.

As of 1715 EDT on 15 Sep, NRMC reported railroads have strategically staged ground and air assessment teams and essential equipment and materials that will enable restoration of operations, as safe conditions allow.

The North Carolina Department of Transportation (NCDOT) reported that in New Bern, a heavy rail lane, two-rail bridge is failing and being shored up with boats. Due to damaged bridges, Norfolk Southern tracks are out of service and their personnel cannot reach impacted areas due to hazardous weather conditions.

On 14 Sep, Amtrak reports they will continue a modified schedule with suspended service through the projected path of the storm. This modified schedule will continue through Tuesday, 18 Sep.

The following train service remains canceled through Monday, 17 Sep:

- Carolinian (New York City -- Charlotte, N.C.)
- Piedmont (Raleigh, N.C. -- Charlotte, N.C.)

Trains cancelled through Tuesday, 18 Sep:



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- Auto Train (Lorton, Va. – Sanford, Fla.)
- Silver Meteor (New York City – Miami)
- Crescent (New York City – New Orleans)

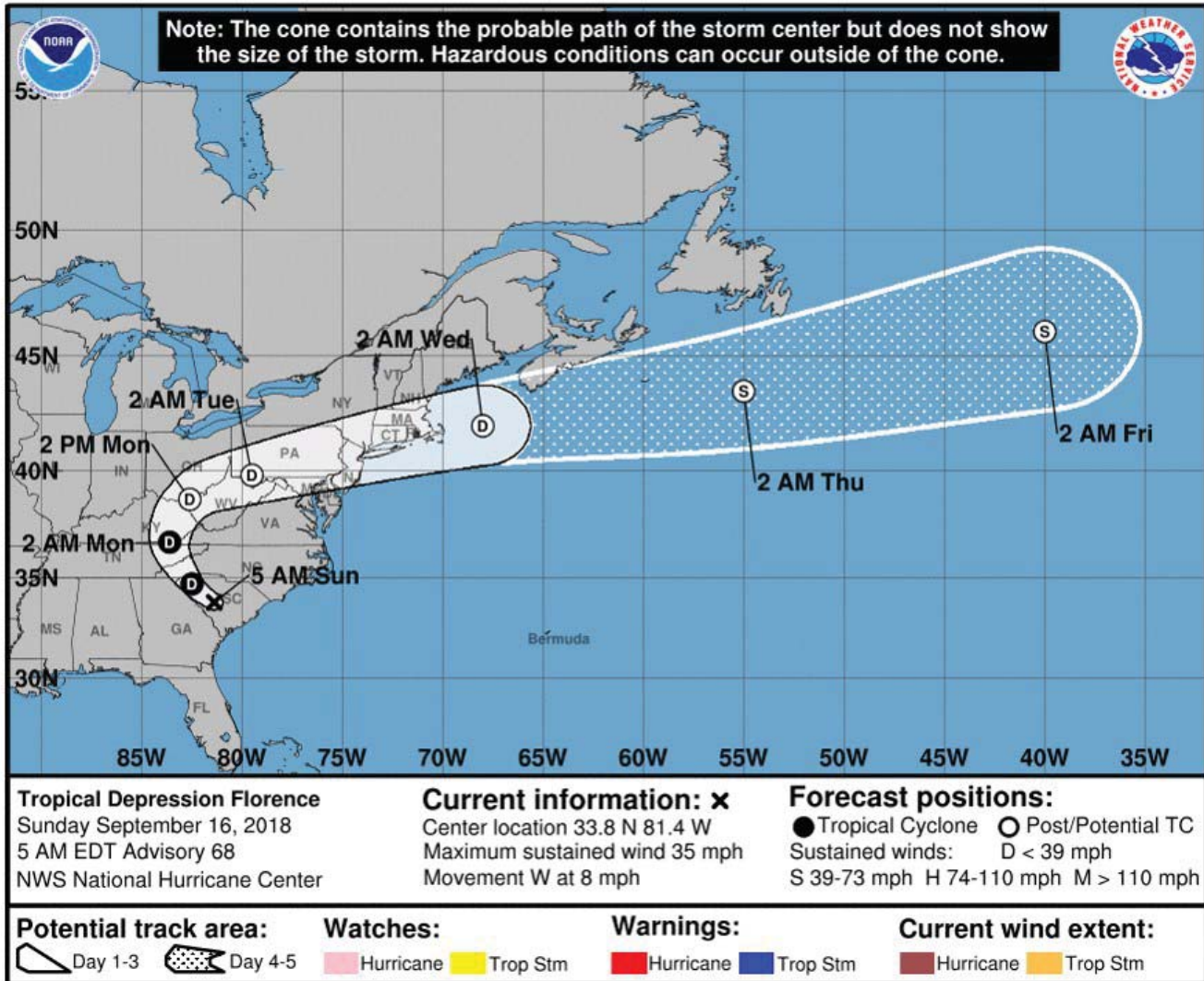
WATER AND WASTEWATER

As of 1700 EDT on 15 Sep, FEMA reported Duplin County, North Carolina is under mandatory evacuation due to an overflow and expected failure of a wastewater treatment plant.

As of 1445 EDT, FEMA reports the Onslow Water and Sewer Authority is reporting a failure of their water system. The system consists of one water treatment plant and five distributed wastewater treatment plants. The water treatment system currently serves 49,000 customers in Onslow County. Onslow Sewer and Water Authority (ONWASA) in Jacksonville, NC has issued a boil water advisory for its entire service area.



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