

North Carolina Emergency Management 2016 Overview



States of Emergency

- ✓ Jan. 20 – Winter Storm *EO 85/86*
- ✓ Feb. 25 – Wind Storm *EO 89*
- ✓ Sept. 1 – Tropical Storm Hermine *EO 97/98*
- ✓ Sept. 15 – Colonial Pipeline Disruption *EO 100/101*
- ✓ Sept. 21 – Charlotte Civil Disturbance *EO 102*
- ✓ Sept. 22 – Tropical Storm Julia *EO 103*
- ✓ Oct. 3 – Hurricane Matthew *EO 107/109*
- ✓ Nov. 2 – Colonial Pipeline Explosion *EO 113*
- ✓ Nov. 10 – Wildfires in Western NC *EO 115*



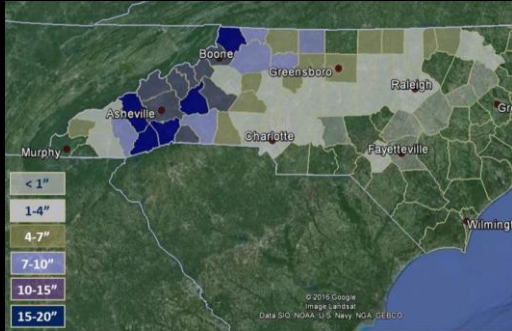
NCEM Senior Staff traveled to the three branches to discuss topics of interest to county partners. The question and answer format led to discussions of: UAS, Salamander, Avian Flu, DocuSign, staffing changes, EMPG program expectations, Urban Search & Rescue programs and more.

~ January 13-15

NCEM Winter Forums



Winter Storms



Two back-to-back storm systems brought freezing temperatures and frozen precipitation to most of the state, prompting power outages to 95,000 homes. Six people died in storm-related crashes; State troopers responded to 2,100+ crashes in four days. Mid-January saw below-freezing temperatures and steady rainfall. NCDOT treated roads with 2.2 million gallons of salt brine, 46K tons of salt and 13.7K tons of salt/sand. ~ Jan 20-24



FEMA National Advisory Council



NCEM welcomed FEMA Administrator Craig Fugate and the NAC, a group of 35 appointed government and business leaders who meet regularly to advise FEMA on all aspects of emergency management. Gov. McCrory and Fugate praised NCEM for its national leadership and ingenuity. ~ Feb 9-11



Nearly 50 local emergency managers and first responders from all across North Carolina attended the first AHIMT Academy. NCEM lead the attendees through an in-depth review of how an incident action plan is developed using the principles of ICS followed by a tabletop exercise. ~ February



All Hazards Incident Management Team



Winter Tornadoes



Tornadoes touched down in Cumberland, Durham, Granville Vance and Wayne counties causing downed trees, damaging an outbuilding and a few residences, and downed power lines causing 122,000 power outages. No injuries were reported. ~ February 24



ICCOH Meeting



The Interagency Coordinating Committee on Hurricanes met in the SEOC to discuss the status and future direction of the National Hurricane Program. Over 100 people from hurricane prone states attended along with agencies. ~ February 24



NCEMA Spring/Fall Conferences

State and local emergency management experts came together at the annual conferences to discuss response and recovery efforts to events this year including flooding, hurricanes and other projects such as THIRA and StormReady Communities.
~ March/October

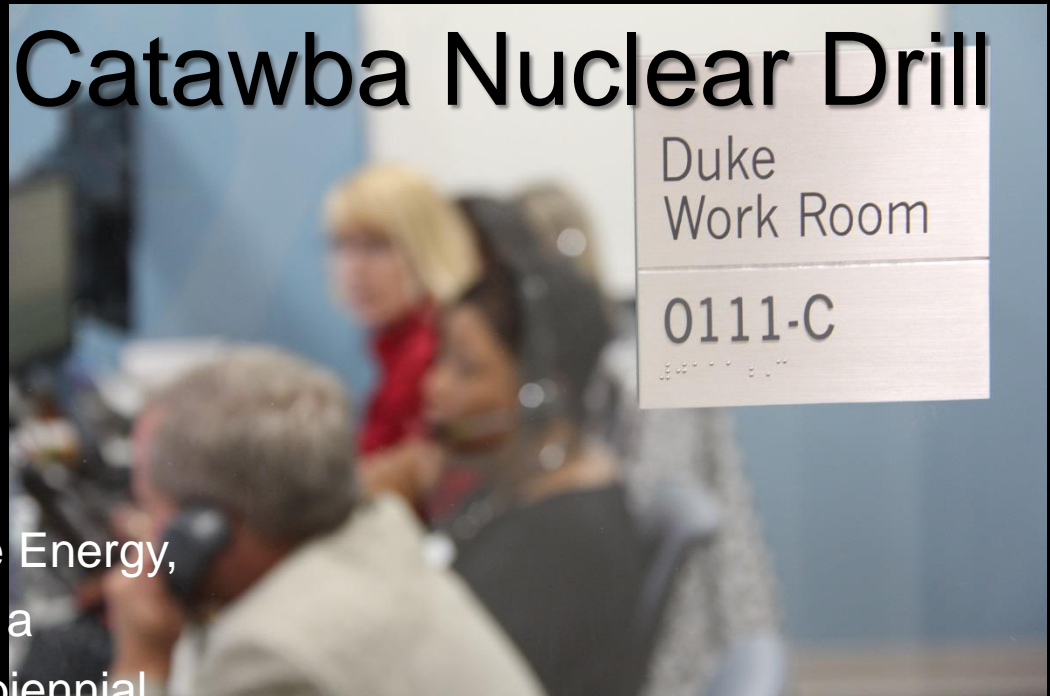




Catawba Nuclear Drill

Duke
Work Room

0111-C



Two states, three counties and Duke Energy, tested their coordinated response to a radiological incident as part of their biennial, federally-graded fixed nuclear facility exercise.

- April 5



Nuclear Emergency Classifications

Four classifications are used to describe an emergency at a nuclear station. Appropriate federal, state and local authorities are informed in each of the following classifications:

| CLASS | GENERAL DESCRIPTION | EXAMPLES |
|--------------------|---|--|
| Normal Event | The least serious of the four classifications. It means that a minor event - either operational or security - has occurred at the station. Unusual events pose no threat to public safety, but due to strict regulatory requirements, the station operator would prepare emergency operation plans in case the situation worsens. Any radioactive release associated with the event would be minimal. | <ol style="list-style-type: none"> 1. A robot or other destructive event (automatic or manual) occurs at the station. 2. A fire lasting more than 15 minutes, in an area where station safety equipment is located. 3. A loss of AC electrical power from all off-site electrical transmission lines for more than 15 minutes. |
| Alert | In the classification, an event - either operational or security level - has occurred that could reduce the plant's level of safety. Although there would be no threat to public safety, county and state officials and the plant operator would prepare emergency operation plans in case the situation worsens. Any radioactive release associated with the event would be minimal. | <ol style="list-style-type: none"> 1. Indicators of possible damage to the used fuel stored at the station. 2. A failure of the automatic system used to shut down the reactor. 3. A fire or explosion causing significant damage to permanent plant equipment and/or structures. |
| On Site Emergency | This classification means an event has occurred in which major safety equipment has failed or is likely to fail, or the station operator has detected an area where the reactor core is overheating. The area could be isolated. The public would be alerted to the Emergency Alert System (EAS) for evacuation and instructions. Any release of radioactive material would be expected to stay within strict bounds. | <ol style="list-style-type: none"> 1. Failure of the part systems needed to cool the fuel or keep the reactor shutdown. 2. A confirmed act of sabotage in an area containing vital plant structures. 3. Radiation doses projected to exceed 0.1 Rem total body dose, one-fourth the amount that would cause acute radiation sickness. |
| Off Site Emergency | | |



Silver Mine Fire





NCEM-ECU Hurricane Workshop

More than 200 local emergency managers, nonprofit representatives, military, meteorologists and academicians met to review and discuss hurricane predictions, preparedness and response. Topics included state medical shelters, county evacuation zones, the 2016 hurricane season forecast and storm surge measuring project. ~ May 25



Statewide Exercise

The statewide exercise tested the SERT's ability to respond to and recover from 'Hurricane Michelle.' The full-scale exercise was followed by a workshop that focused on response and recovery operations. More than 500 people participated from 53 counties and 94 partner agencies. ~June 1-2



CAP Encampment



More than 200 Cadets and Senior members attended the annual week-long training and educational camp at the Stanly County Air National Guard Base. ~June 18-25





DOD Summit

NCEM hosted the 9th annual meeting of officials from various Department of Defense agencies, as well as each of North Carolina's military installations, to discuss and review disaster response plans.

~ June 28





Six CERT members from NC went to the Mississippi CERT Olympics. The Tarheel team earned gold medals in cribbing, building search, and fire safety; and silver medals in patient transport and triage. The overall medal count earned NC the gold medal overall. ~July 8-10



CERT Training

North Carolina has 80 Community Emergency Response Teams. Nearly 70 CERT members from all three branches joined in a statewide exercise called CERTEX. Participants were assigned to teams to compete at eight different skill stations using knowledge they gained in CERT Basic Training. ~ July 16





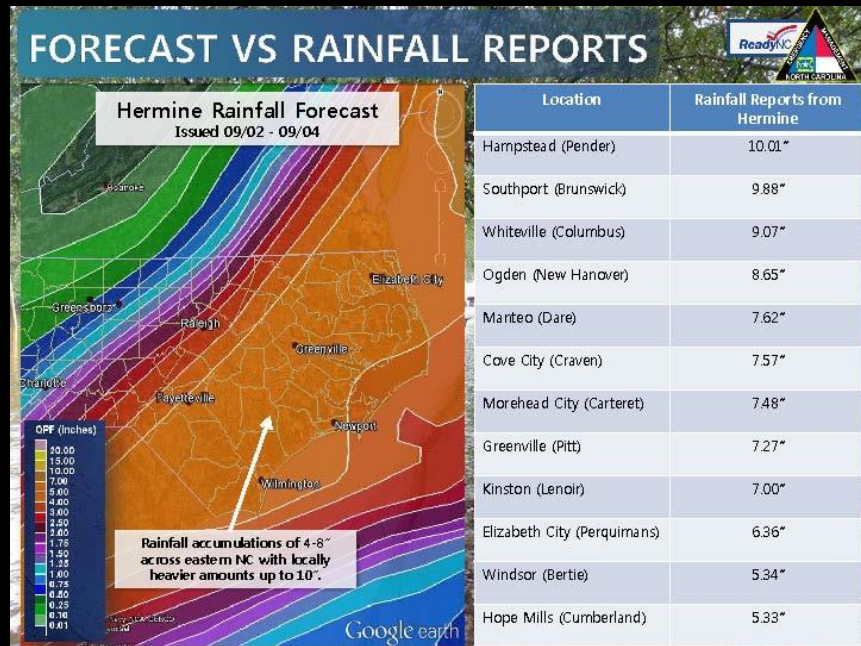
Brunswick Nuclear Drill

NCEM, Duke Energy, Brunswick & New Hanover counties tested their coordinated response to a radiological incident at the Brunswick Nuclear Plant. The federally-required exercise involves testing various aspects of response over a multi-week period. ~ July 26



TS Hermine

The SEOC activated over the Labor Day weekend in preparation for Tropical Storm Hermine. The storm left the state mostly unscathed, but dumped between 5-10" of rain across much of the east and caused nearly 30,000 power outages. Sept.2-3



Colonial Pipeline

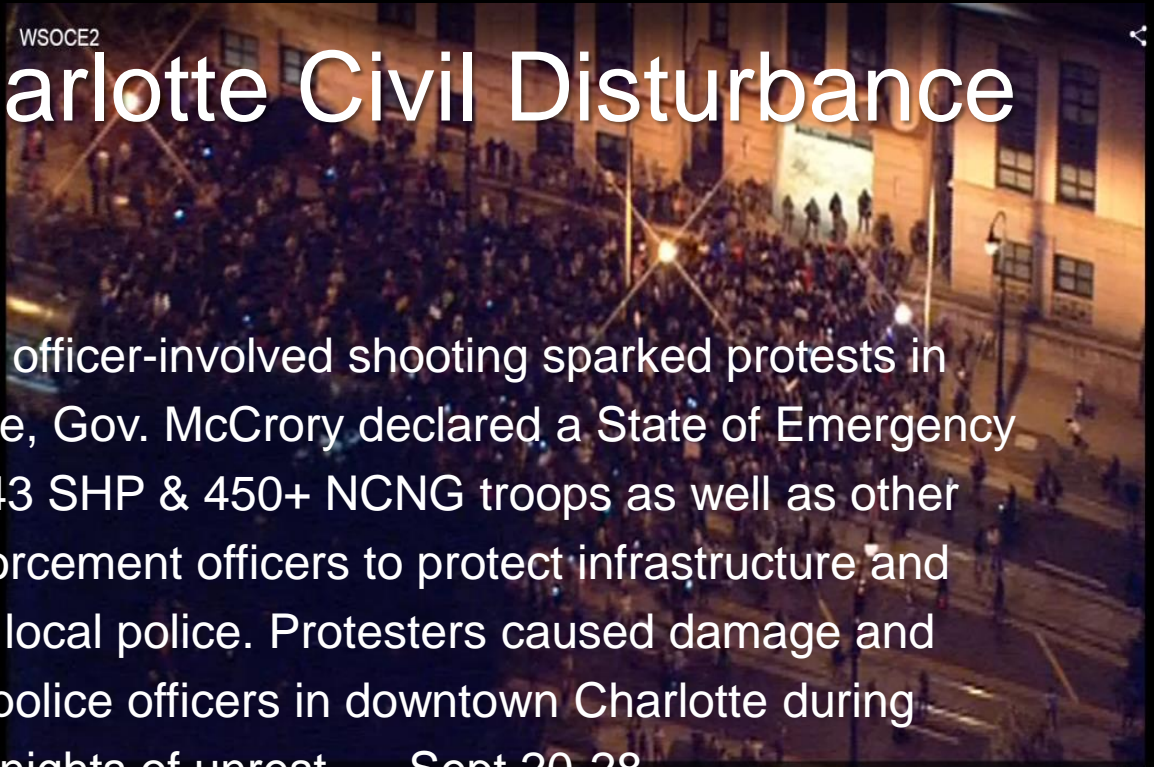
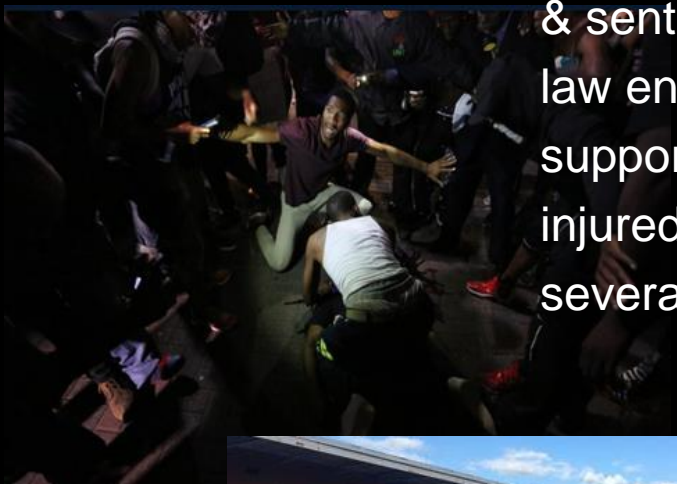
The SEOC activated to coordinate with counties on short & long-term fuel needs after a major break in the Colonial Pipeline in Alabama. The disruption in the primary fuel supply line for NC prompted temporary fuel shortages. Two mobile fueling stations were set up in Durham and Clay Counties. Sept. 19



WSOCE2

Charlotte Civil Disturbance

After an officer-involved shooting sparked protests in Charlotte, Gov. McCrory declared a State of Emergency & sent 43 SHP & 450+ NCNG troops as well as other law enforcement officers to protect infrastructure and support local police. Protesters caused damage and injured police officers in downtown Charlotte during several nights of unrest. ~ Sept 20-28





TS Julia



The remnants of Tropical Storm Julia dropped 10-17" of rain across northeastern North Carolina causing major flooding, road closures, motor vehicle accidents & school closings/delays in 11 counties. Seven counties were approved for SBA loans. Sept. 22



Hurricane Matthew – October 8-9

Hurricane Matthew was the strongest storm to hit the state in nearly two decades prompting historic flooding in many coastal and inland communities.

Most of central & eastern NC had 6-8” of rain, 9” in Raleigh & Rocky Mount, 12” in Fayetteville, Lumberton & Smithfield, 15-16” in Goldsboro & Bladen County.

The governor declared State of Emergency for 100 counties.

- 28 fatalities
- 2,336 swift water rescues (includes air ops)
- 11 counties issued evacuations
- 141 shelters opened in 35 counties
- 4,071 evacuees stayed in shelters
- Oct. 7 – first shelter opened
- Nov. 14 – last shelter closed





Hurricane Matthew – Operations

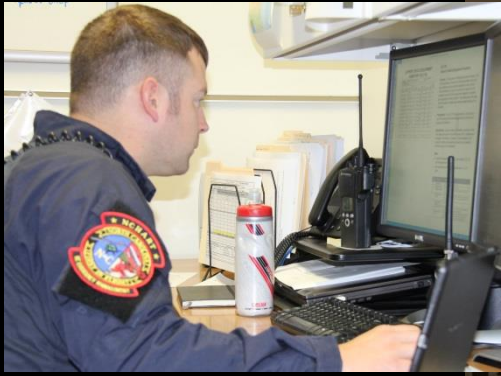
The Centrals & Eastern Regional Coordination Centers activated to support Hurricane Matthew response, while staff from the WBO deployed to support the two RCCs.

RCC Central deactivated Oct 17.

RCC East deactivated Oct. 22.



Hurricane Matthew – Operations



The State Emergency Operations Center and two RCCs activated in early October to prepare for Hurricane Matthew. 44 counties also stood up their EOCs. The SEOC remained activated until Oct. 31 when the event formally shifted to recovery operations at the Joint Field Office.



Hurricane Matthew – SAR

Swift Water Rescue teams & Helo-Aquatic Rescue Teams from across the state, as well as multiple FEMA regional teams pulled people and pets from floodwaters. Teams ran rescue operations night and day for nearly a week. 2,336 people were rescued from the floodwaters.



Hurricane Matthew Impacts

- 770,000+ power outages
- 660+ roads closed
- 2 airports closed
- 20 dams breached
- 21 counties issued water advisories





Greenville, 10/12



Kinston 10/14



Fair Bluff 10/13



Hertford County 10/10

Matthew Impacts



Craven Co. 10/15



Benson 10/8

Matthew Impacts



Lumberton 10/10



Nash Co. 10/9



Wake (Crabtree Mall) 10/9



Wilson 10/9

Matthew Impacts



Princeville 10/12



Corolla (Currituck)10/15

Providing safe drinking water for people in Lumberton, Princeville, Fair Bluff and Brunswick County was a top priority after flooding damaged water treatment plants. In Lumberton, NCEM staff led the effort to install four GE portable water treatment trucks to treat 5 million gallons/day. The temporary fix enabled the city to more efficiently and quickly fix their water treatment system.



Crews worked to repair the water system in Fairmont, while NCNG led the efforts to pump over 40 million gallons out of Princeville.

Hurricane Matthew Recovery

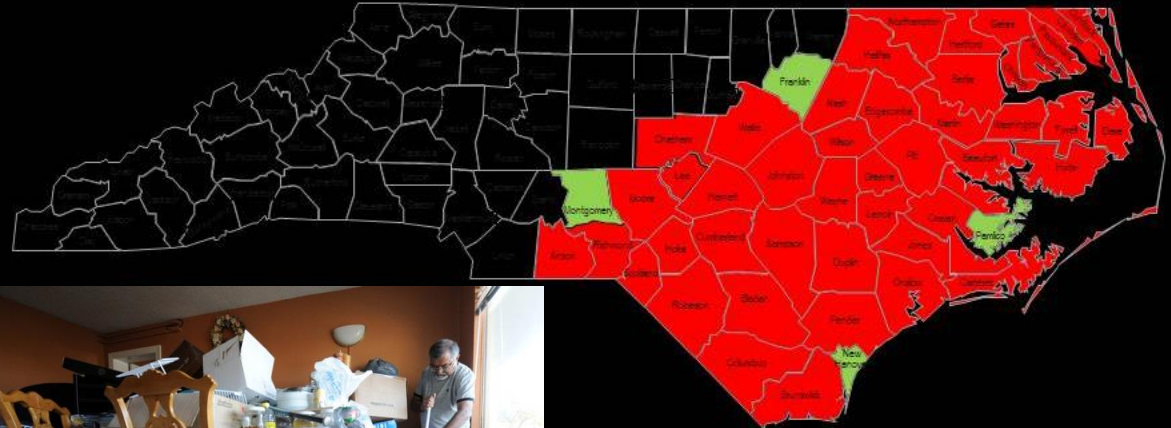


Hurricane Matthew Recovery

- 49 counties approved IA & PA
- 4 counties approved PA only
- Oct 31 – Joint Field Office opened
- At peak, over 1,400- FEMA/SBA staff working
- 34 – Disaster Recovery Centers opened
- 3 – Business Recovery Centers opened



Hurricane Matthew Recovery



- 77,400+ registered for help
- 23,000 visited Disaster Recovery Centers
- \$83+ million approved for survivors
- 1,700+ SBA loans approved
- \$65+ million dollars in SBA loans

Hurricane Matthew Housing Assistance



Thousands of homes were damaged or destroyed by flooding from Hurricane Matthew. More than 1,700 households sought temporary housing through FEMA's Transitional Shelter Assistance (hotels).

- 57,500+ housing inspections complete
- 11 counties approved for THU program
- 57 Temporary Housing Units approved (as of 12/12)



Colonial Pipeline

A construction crew ruptured the pipeline causing a major fire and, again, shutting one of the two fuel lines down. NCEM & fuel industry officials made contingency plans for expected shortages. The line restarted Nov. 6. ~ Oct. 31



Western NC Wildfires



From October 23 thru all November, major wildfires raged across state and federal drought-stricken land in western North Carolina. Eleven incident management teams were brought in from other states to run the massive fire fighting operations.

| | |
|--------|---|
| 26 | Major Wildfires |
| 62,482 | Acres Burned |
| 2,500 | Firefighters |
| 40 | States that Sent Personnel |
| 230+ | NC Fire/Rescue Agencies that Sent Firefighters to Help |

Western NC Wildfires



Western NC Wildfires



Horton Fire: Watauga Co.
50 personnel ~ Nov. 21



Clear Creek Fire: Marion, McDowell
411 Personnel ~ Nov. 20

Boteler Fire: Clay
260 Personnel ~ Oct. 25

Chestnut Knob: Burke Co.
139 Personnel ~ Nov. 6



Western NC Wildfires

Maple Spring: Graham Co.
105 personnel ~ Nov. 4



Party Rock Fire: Rutherford,
Buncombe, Henderson
177 Personnel ~ Nov. 5

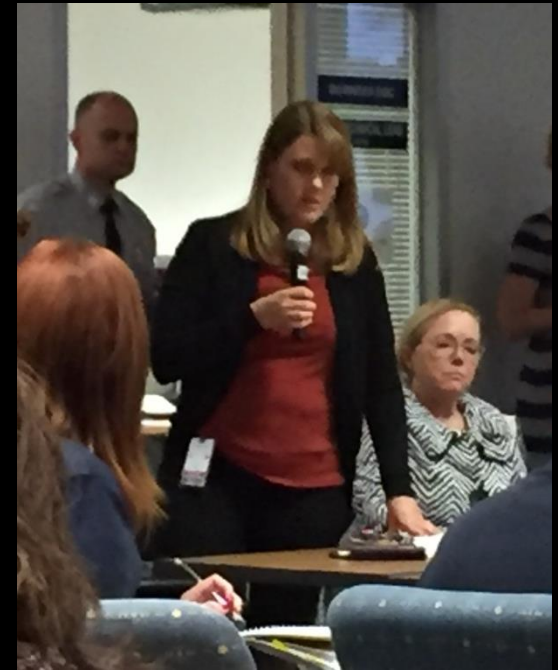
EMAC Missions

NCEM sent staff & resources to other support disaster response in other states through the Emergency Management Assistance Compact Program. Missions included:

- ✓ Debris management, Virginia ~ March
- ✓ SHP Troopers for Security at the RNC, Ohio ~ July
- ✓ Virtual imagery analysis for flooding, WV ~ July
- ✓ Mass Casualty Bus & 30 SWR techs, SC ~ October

North Carolina also received EMAC help for Hurricane Matthew:

- 1 PIO – Virginia
- 2 A-Team – STATE
- 20 Nurses – STATE
- 8 Behavioral Health Specialists – STATE
- 6 EOC Overhead Teams - STATE



Unmanned Aerial Vehicles

NCEM received authorization from in June FAA to fly UAVs as part of disaster response & recovery. Several NCEM staff took private pilot-airplane ground school courses and other industry courses to become certified pilots. The agency partnered with NCSU & NC Forest Service on projects and used UAVs to capture images from Hurricane Matthew & wildfires.





HazMat Response

Hazmat Regional Response Teams:

- responded to 29 state hazmat missions
- 1,000+ local missions
- provided technical advice to local responders.

The RRTs provide support to locals during chemical releases, transportation incidents and criminal acts. Four teams received new or refurbished trailers; all seven teams signed new four-year contracts with NCEM.



NC – SC Boundary Commission



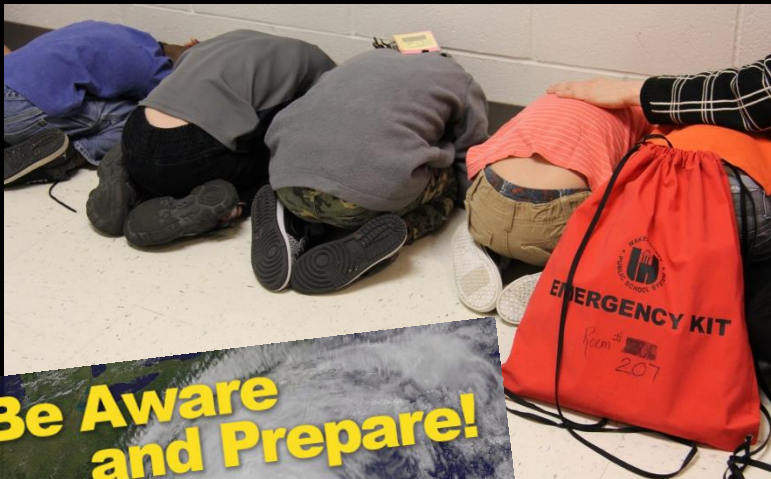
Boundary Work Finished!

For the past 24 years, Geodetic Survey staff have charted the state's boundaries examining centuries-old historical markers & landmarks. In 2015, the Commission approved survey work that reestablished the NC-SC boundary. Legislation was adopted in both states to minimize impacts to property owners. The NC-SC boundary was formally reestablished in December 2016.



Preparing Communities

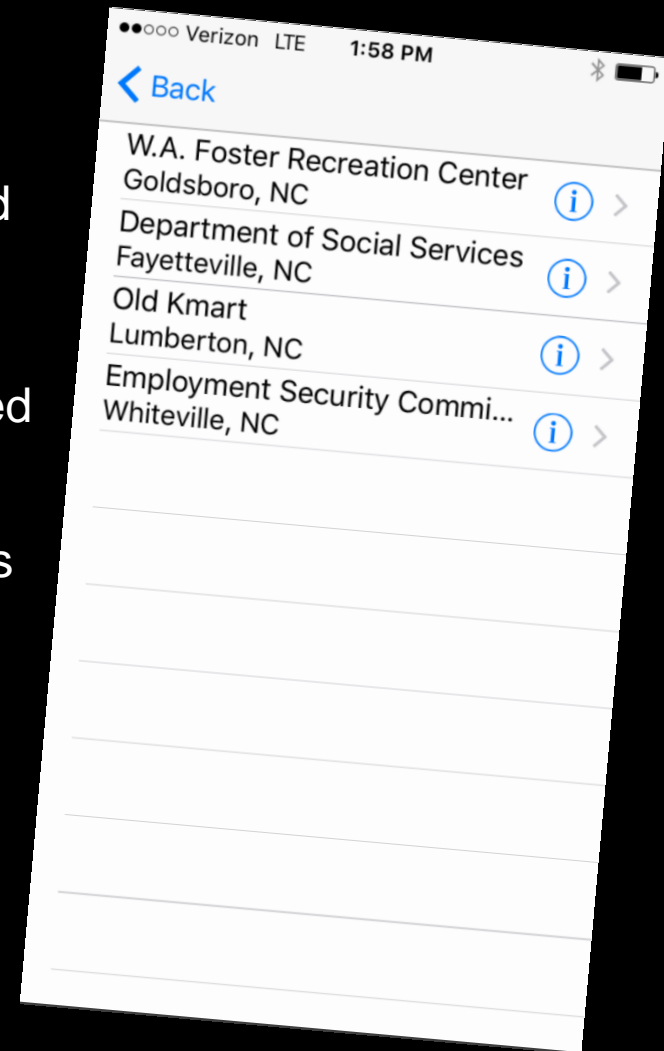
NCEM led four campaigns to prepare North Carolinians for various types of severe weather including tornadoes, hurricanes, snow and ice. Materials were sent to county emergency management agencies, schools, local health departments, Latino partners, state agencies, etc.



Updating the ReadyNC App

Use of the ReadyNC mobile app more than doubled this year drawing 55,700+ users in 2016. Since its launch in early 2014, the app attracted **109,000+ users.**

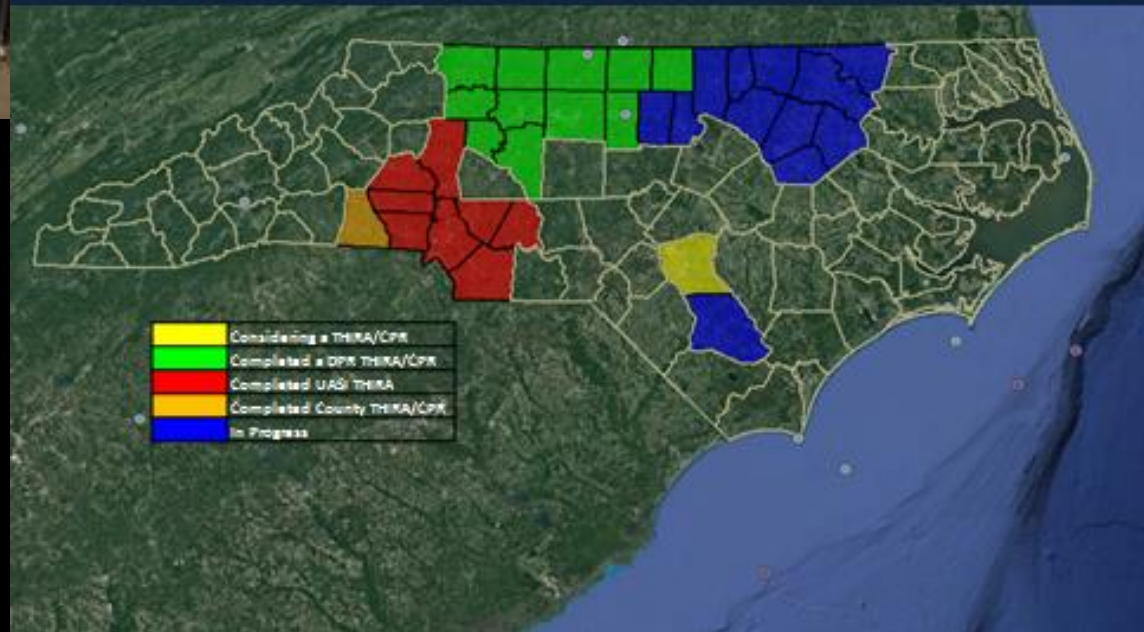
In 2016, the app was updated to provide more detailed evacuation information and locations/hours of operations for disaster recovery help centers.



Assessing Risks (THIRA)



North Carolina Local and Regional THIRA/CPR Status Map



DPR-5, DPR-6, the Charlotte UASI region along with Bladen, Cumberland & Rutherford counties analyzed their threats, hazards and risks. NCEM Strategic Plans led the effort in DPR-5 in the spring to begin a series of work sessions that have been scheduled to accomplish the project, which expanded across the state as the year went on.



Providing Essential Training

NCEM sponsored 344+ classes training nearly 7,200 personnel on topics such as: CERT, search and rescue, disaster response and recovery; sheltering; debris management; handling mass fatalities; damage assessment; mass shootings and response.





Zika Virus Preparation

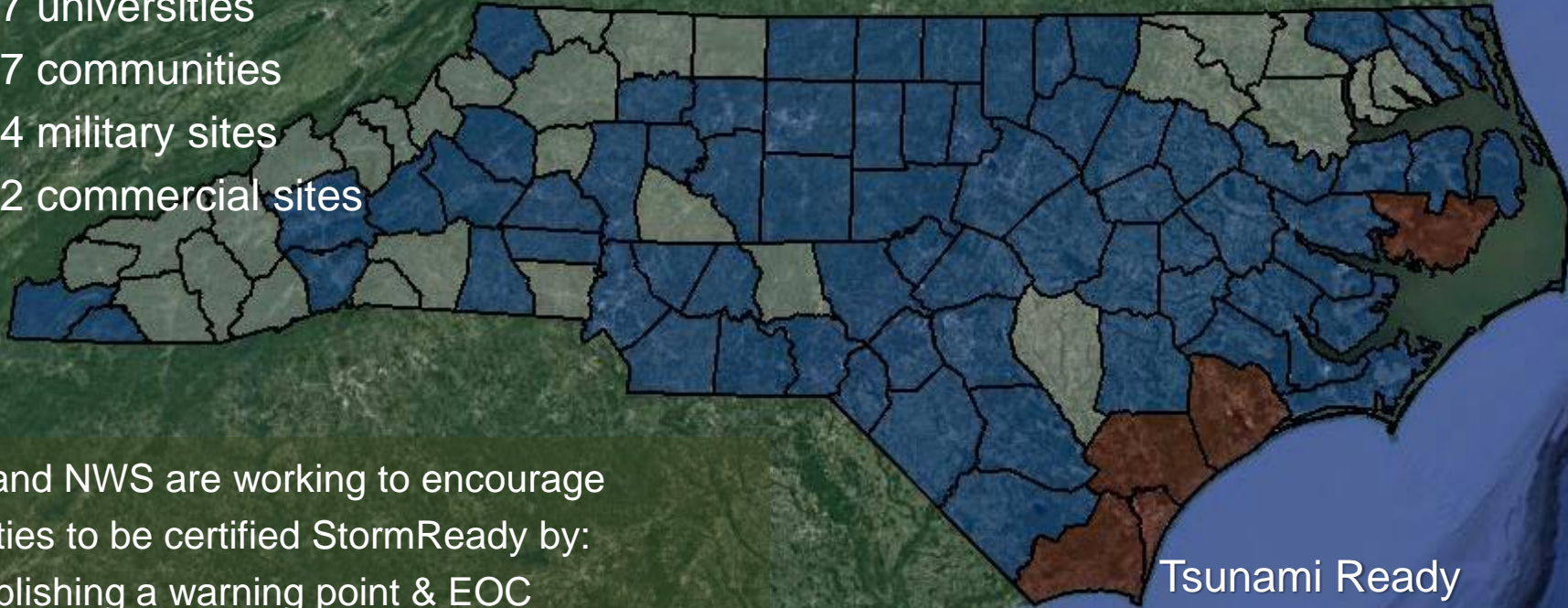
As infection of Zika virus hit south Florida, North Carolina cautioned residents to take preventative measures against mosquito bites. NCEM worked closely with DHHS Public Health on preparedness and response plans should the infection-carrying *Aedes aegypti* mosquito infect people in the state. State health officials tracked travel-related cases of Zika patients.



Storm Ready Initiative

Storm Ready

- ✓ 67 counties
- ✓ 7 universities
- ✓ 7 communities
- ✓ 4 military sites
- ✓ 2 commercial sites



NCEM and NWS are working to encourage all counties to be certified StormReady by:

- Establishing a warning point & EOC
- Having multiple ways to get weather warnings
- Creating a system to monitor local weather
- Promoting emergency preparedness
- Developing a hazardous weather plan

Tsunami Ready

- ✓ 4 counties
- ✓ 2 communities
- ✓ 1 military site

NCEM as an International Model



Steve Powers traveled to South Korea to again share NC's experience on disaster preparedness & response and discuss national response policy and framework. ~ November
Tanzanian officials visited the WBO to discuss resource requests, floodplain mapping, mobile hospitals, medical busses, civil disturbance response & law enforcement. ~ March
Moldovan guests visited the EBO for a mass casualty exercise. ~ August





NC HART

NC HART combines aviation assets from NCNG & SHP using 3 platforms (Blackhawk, Lakota, Bell 407). Each platform trains monthly.

HART crews completed 9 rescues of stranded/ injured hikers or kayakers. missions this year, 7 in the WBO and 2 in the CBO. HART also rescued dozens of people stranded by rising floodwaters in Hurricane Matthew.



Search & Rescue Training

More than 500 responders trained with NCEM on various types of SAR operations including:

- 2 wilderness classes
- Dupont Rescue Experience
- Gates County SAR training
- 7 winter & summer mountain classes



Search & Rescues



2016 was the busiest year on record for SAR missions:

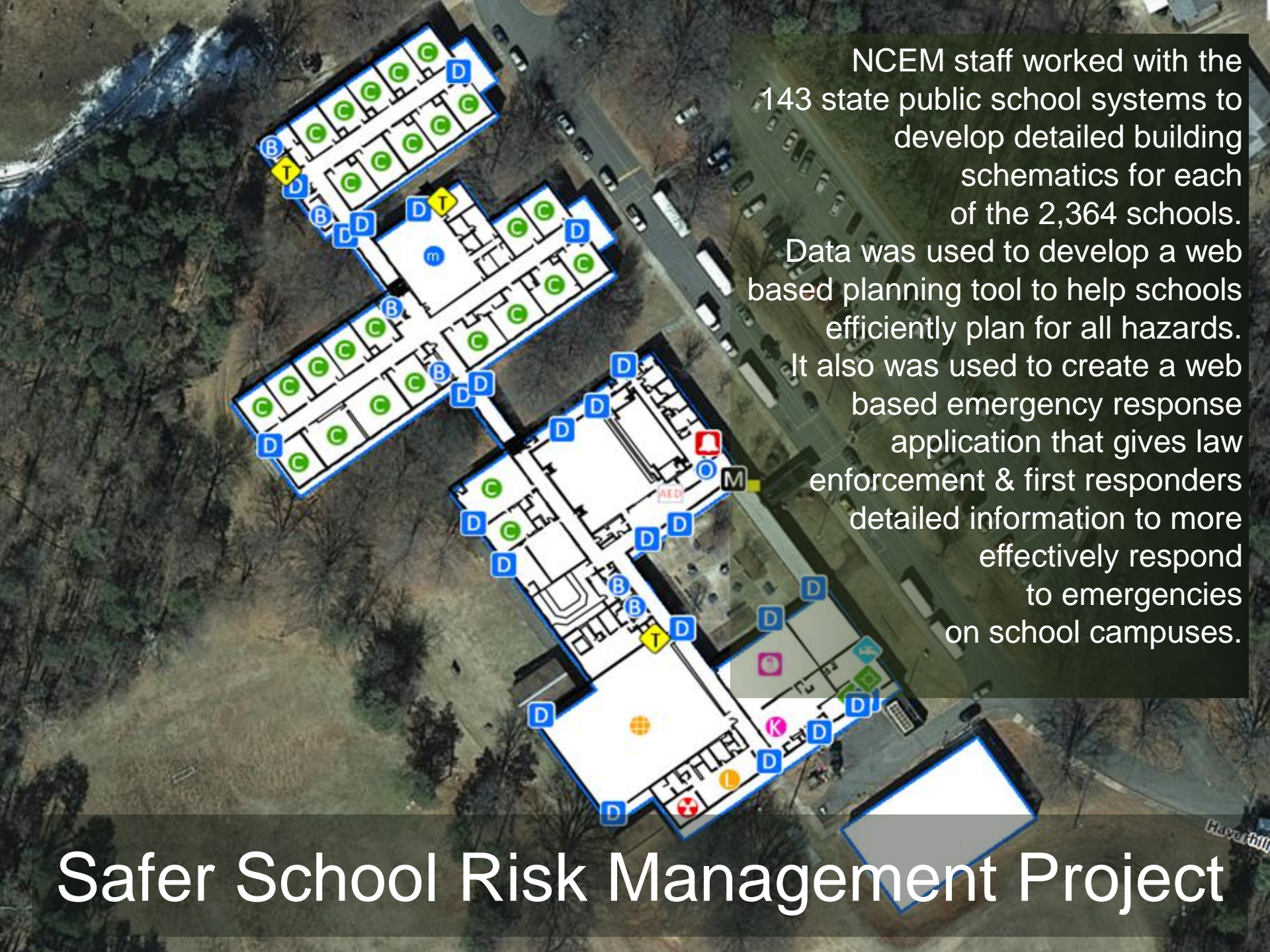
- Dozen+ mountain rescues (including one during training at Roan Mtn.)
- 3 kayakers in Neuse River
- 2,500+ people rescued from floodwaters TS Hermine, TS Julia & Hurricane Matthew



Helping Communities Recover Faster



NOAA awarded NCEM a \$110,000 grant to improve its online recovery planning tool that will help communities recover faster from disaster. The division will simplify and streamline the current web-based recovery plan template, then test-drive the tool in two hurricane-vulnerable coastal communities.



NCEM staff worked with the 143 state public school systems to develop detailed building schematics for each of the 2,364 schools. Data was used to develop a web based planning tool to help schools efficiently plan for all hazards. It also was used to create a web based emergency response application that gives law enforcement & first responders detailed information to more effectively respond to emergencies on school campuses.

Safer School Risk Management Project

Emergency Preparedness Initiative



In it's third year, the Emergency Preparedness Initiative for Individuals with Developmental Disabilities:

- Identified gaps and affected positive change by holding regular meetings and trainings
- Met with 35+ organizations
- Produced & shared 1,400 Show Me tools to shelter operators, EMDs & first responders

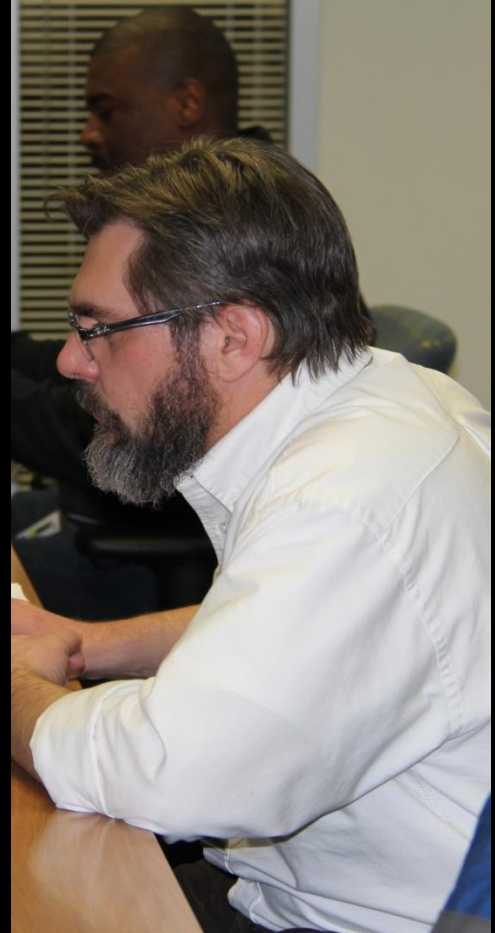


SERC Meetings

The State Emergency Response Commission met twice to review, assess, plan and implement projects and procedures to protect North Carolina residents and the environment through effective emergency planning. Topics for 2016 included homeland security, cyber security, Avian Influenza and the chemical industry in North Carolina and nationwide.

The Faces of NCEM



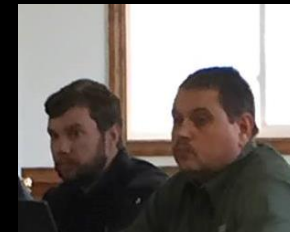


The Faces
of NCEM





The Faces of NCEM



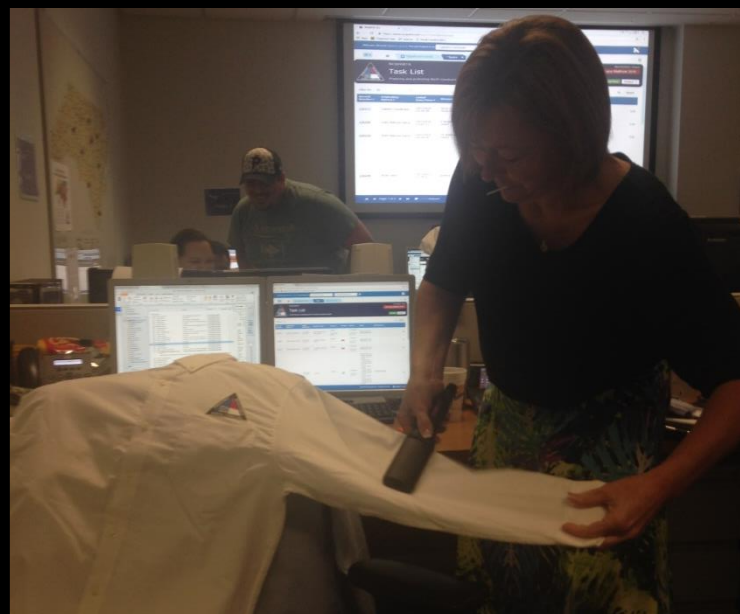


The Faces of NCEM





The Faces of NCEM





The Faces
of NCEM



The Faces of NCEM



If this is the winning ticket ... I'm outta here..



Dude... that's on you.



As the
National
Guard says...



KEEP
CALM
AND
LET
EMERGENCY
MANAGEMENT
WORK IT