

# Appendix D

## Planning Process Documentation

This appendix includes:

1. Meeting Agendas
2. Meeting Minutes
3. Meeting Sign-In Sheets

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
West Wake Work Group Meeting

December 13, 2013

10:00 AM – Noon

- 1) Introductions**
- 2) Recap- Regional Work Groups**
- 3) Risk Assessment Discussion**
  - a) Review of Risk Assessment
  - b) Hazard Identification
  - c) Data
  - d) Critical Facilities
- 4) Mitigation Strategy Discussion**
  - a) Review of Mitigation Strategy
  - b) Mitigation Goals
  - c) Updating Current Mitigation Actions
  - d) Developing New Mitigation Actions
- 5) Public Involvement**
- 6) CRS**
- 7) Next Steps**
  - a) Data Collection
  - b) Mitigation Actions
  - c) Public Outreach
  - d) Discuss next meeting
- 8) Questions, Issues, or Concerns**

# **ATKINS**

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
East Wake Work Group Meeting  
Thursday, December 12, 2013  
10:00 PM – Noon

## **1) Introductions**

## **2) Recap – Regional Work Groups**

## **3) Risk Assessment Discussion**

- a) Hazard Identification – select hazards to evaluate
- b) Vulnerability Assessment

## **4) Mitigation Action Review and Discussion**

- a) Present existing actions
- b) Discuss updating existing actions
- c) Discuss identification of new actions

## **5) CRS Recap Q&A**

## **6) Next Steps**

- a) Continue data collection efforts
- b) Continue public outreach
- c) Discuss next work group meeting

## **7) Questions, Issues, or Concerns**

**ATKINS**

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
West Wake Work Group Meeting  
Friday, December 13, 2013  
10:00 PM – Noon

## **1) Introductions**

## **2) Recap Project Objectives and Discuss Expectations**

## **3) Recap Project Overview**

- a) General approach
- b) County regions
- c) Project tasks

## **4) Risk Assessment Discussion**

- a) Hazard Identification – select hazards to evaluate
- b) Vulnerability Assessment

## **5) Data Collection Recap**

- a) GIS Data inventory
- b) Capability Assessment information
- c) Public outreach
- d) Existing mitigation actions

## **6) Mitigation Action Review and Discussion**

- a) Present existing actions
- b) Discuss updating existing actions
- c) Discuss identification of new actions

## **7) CRS Recap Q&A**

## **8) Next Steps**

- a) Continue data collection efforts
- b) Continue public outreach
- c) Discuss next work group meeting

## **9) Questions, Issues, or Concerns**

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
East Wake Work Group Meeting  
Tuesday January 28, 2014  
10:00 AM – Noon

- 1) Introductions**
- 2) Recap – What We’re Working On Today**
- 3) Risk Assessment Findings**
  - a) Hazard History and Profiles
  - b) Conclusions on Risk: PRI
  - c) Critical Facilities
- 4) Capability Assessment Findings**
  - a) Indicators
  - b) Results
- 5) Mitigation Strategy**
  - a) Current Goals/Actions
  - b) New Actions
  - c) Discussion
- 6) Next Steps**
  - a) Mitigation Actions
  - b) Continue public outreach
  - c) Core Committee Meeting
- 7) Questions, Issues, or Concerns**

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
West Wake Work Group Meeting  
Friday January 31, 2014  
10:00 AM – Noon

- 1) Introductions**
- 2) Recap – What We’re Working On Today**
- 3) Risk Assessment Findings**
  - a) Hazard History and Profiles
  - b) Conclusions on Risk: PRI
  - c) Critical Facilities
- 4) Capability Assessment Findings**
  - a) Indicators
  - b) Results
- 5) Mitigation Strategy**
  - a) Current Goals/Actions
  - b) New Actions
  - c) Discussion
- 6) Next Steps**
  - a) Mitigation Actions
  - b) Continue public outreach
  - c) Core Committee Meeting
- 7) Questions, Issues, or Concerns**

**ATKINS**

# **AGENDA**

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Coordinating Committee Meeting

April 1, 2014  
3:00 PM

- 1) Welcome and Introductions**
- 2) Mitigation Overview**
- 3) Project Overview**
- 4) Present Initial Findings**
- 5) Discuss Mitigation Actions**
- 6) Next Steps**
- 7) Questions, Issues, or Concerns**

# **ATKINS**

## AGENDA

Wake County Multi-Jurisdictional Hazard Mitigation Plan

Final Public Meeting

6:00 PM - December 30, 2014

222 W Hargett Street, Raleigh, NC Room 305

- Welcome and Introductions
- Mitigation Overview
- Project Summary
- Present Plan
- Public Survey Findings
- Next Steps

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**Project Kickoff Meeting**  
**November 21, 2013**

Josh Creighton, Wake County Emergency Management Director, started the meeting by welcoming the representatives from the County, participating municipal jurisdictions, and other stakeholders. Mr. Creighton then introduced Nathan Slaughter, Project Manager from the project consulting team, Atkins.

Mr. Slaughter led the kickoff meeting and began by providing an overview of the items to be discussed at the meeting and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda, project description, and presentation slides). He then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of mitigation and discussed the Disaster Mitigation Act of 2000 and NC Senate Bill 300.

He gave a list of the participating jurisdictions for the multi-jurisdictional plan, noting all local governments in the County are participating and have existing hazard mitigation plans. There was discussion about Knightdale's plan being the first to expire. It was determined that the Knightdale Annex will be a completed first and used as a template for the remaining jurisdiction-specific annexes.

Ryan Wiedenman from Atkins then explained the six different categories of mitigation techniques (emergency services; prevention; natural resource protection; structural projects; public education and awareness; and property protection) and gave examples of each. This explanation culminated to an Ice Breaker Exercise for the attendees.

Mr. Wiedenman instructed attendees on how to complete the exercise. Attendees were given an equal amount of fictitious FEMA money and asked to spend it in the various mitigation categories. Money could be thought of grant money that communities received towards mitigation. Attendees were asked to target their money towards areas of mitigation that are of greatest concern for their community. Ideally, the exercise helps pinpoint areas of mitigation that the community may want to focus on when developing mitigation grants. The Ice Breaker Exercise results were to be reviewed and presented at the conclusion of the meeting.

Mr. Slaughter then discussed the key objectives of the planning process and the structure of the hazard mitigation planning committee, which comprises a Coordinating Committee made up of local government and other stakeholders and smaller Regional Work Groups made up of local government staff and officials. Local governments were given the opportunity to discuss how the Regional Work Groups should be divided. It was determined that Knightdale, Rolesville, Wendell, Wake Forest and Zebulon will form the Eastern Wake County Work Group and Apex, Cary, Morrisville, Holly Springs, Fuquay-Varina, and Garner will form the Western Wake County Work Group. Raleigh and Wake County will participate on both groups. (This structure mirrors existing transportation planning efforts.)

Mr. Slaughter then explained the specific tasks to be accomplished for this project, including the planning process, risk assessment, vulnerability assessment, capability assessment, mitigation strategy and action plan, plan maintenance procedures, and documentation. The project schedule was presented along with the project staffing chart, which demonstrates the number of experienced individuals that will be working on this project.

The data collection needs and public outreach efforts were also discussed. Sarah Bruce from the Triangle J Council of Governments and member of the Atkins team explained the online wiki/project website that will be used during the project.

Mr. Slaughter then reviewed the roles and responsibilities of Atkins, participating jurisdictions, and stakeholders.

David Stroud from AMEC, also part of the Atkins team, then followed by providing an overview of the Community Rating System (CRS) program. CRS “what-if” scenarios were distributed to each local government to demonstrate how much citizens could save on flood insurance premiums under the CRS.

The presentation concluded with a discussion of the next steps to be taken in the project development, which included discussing data collection efforts, continuing public outreach, and the next meeting for the Coordinating Committee and Regional Work Groups.

The meeting was opened for questions and comments and several topics were raised including: outreach for special or disadvantaged populations, public survey availability, raising public awareness to ensure a fully-representative dataset, internal standing hazard mitigation committees, public health as vulnerability consideration, floodplain map updates.

Sara Reynolds from Atkins then presented the Ice Breaker Exercise results which were:

- Prevention—\$177
- Structural Projects—\$151
- Property Protection—\$116
- Natural Resource Protection—\$92
- Emergency Services—\$64
- Public Education and Awareness—\$60

The meeting was adjourned.

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**East Wake Regional Work Group Meeting #1**  
**December 12, 2013**

Nathan Slaughter with Atkins, started the meeting by welcoming the representatives from the participating jurisdictions. Mr. Slaughter went on to discuss the purpose of the regional work groups which was to gain valuable input from local planners such as specific data and areas of risk.

Mr. Slaughter led the work group and began by providing an overview of the items to be discussed at the meeting and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda and presentation slides). He then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of the stages of the mitigation planning process that would be addressed.

Ryan Wiedenman from Atkins then led the Risk Assessment discussion and explained the importance of identifying an accurate list of hazards that could potentially impact the jurisdictions. Mr. Wiedenman then presented a comprehensive list of hazards and led a discussion with the work group members until a list of hazards to be analyzed further was agreed upon.

Mr. Wiedenman then discussed the specific data needs for completing the risk assessment. Work group members were instructed to look into collecting building footprint and parcel data, as well as any local hazard studies that might have been carried out in the past. Mr. Wiedenman went on to explain the definition of critical facilities and how important they were to mitigation plans. This led to an exercise in which each local government representative was provided a list of critical facilities derived from both their current plans and an updated Wake County GIS layer. Work group members were asked to review the lists and determine if any critical facilities were missing or whether any were included on the list that should not be.

After this exercise was completed, Mr. Slaughter then discussed the key objectives of the mitigation strategy and identified goals that had been identified in past plans. The Atkins team had consolidated these goals into several overarching goals that were suggested to be the goals of the county-level plan. All participants were asked to make comments on the suggested goals and after minimal discussion, the goals were accepted.

Mr. Slaughter then explained that the Atkins team had also pulled all of the mitigation actions from previous mitigation plans into the same formatted table to enable consistency across the jurisdictions. He then provided copies to each jurisdiction of their specific mitigation action plan and demonstrated how the update process for these actions would be carried out. Mr. Slaughter asked each jurisdiction to provide status updates for each action and return them to him by the end of February 2013. He also provided a brief overview of how to include any new actions in the plan and provided some suggestions for actions that could be useful to implement in terms of mitigation.

In conclusion, Mr. Slaughter reminded the work group of the public outreach survey and asked them to publicize it as much as possible. The presentation ended with a discussion of the next steps to be taken in the project development, which included discussing data collection efforts, continuing public outreach, and the next meeting for the Coordinating Committee and Regional Work Groups.

The meeting was opened for questions and comments and only minor questions related to timeframes and follow up meetings were discussed.

The meeting was adjourned.

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**West Wake Regional Work Group Meeting #1**  
**December 13, 2013**

Nathan Slaughter with Atkins, started the meeting by welcoming the representatives from the participating jurisdictions. Mr. Slaughter went on to discuss the purpose of the regional work groups which was to gain valuable input from local planners such as specific data and areas of risk.

Mr. Slaughter led the work group and began by providing an overview of the items to be discussed at the meeting and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda and presentation slides). He then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of the stages of the mitigation planning process that would be addressed.

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The meeting was opened for questions and comments and only minor questions related to timeframes and follow up meetings were discussed.

The meeting was adjourned.

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**East Wake Work Group Meeting #2**  
**January 28, 2014**

Nathan Slaughter, Project Manager from the project consultant, Atkins initiated the meeting by welcoming meeting attendees. He briefly explained the overall purpose of the meeting and briefly ran through the agenda items to be covered. He then asked meeting attendees to introduce themselves.

He provided a quick recap on how the regional work groups were set up and then provided a quick discussion of the project tasks involved with developing the hazard mitigation plan. He stated that the purpose of the meeting was to provide initial findings from the Risk Assessment and Capability Assessment and to start working on the Mitigation Strategy.

Ryan Wiedenman, a Planner with Atkins, then presented the findings of the risk assessment. He first discussed the major components of a Risk Assessment (Hazard Identification and Analysis and Vulnerability Assessment). He reviewed the Presidential Disaster Declarations that have impacted the County (13 events). He then explained the process for preparing Hazard Profiles and discussed how each hazard falls into one of four basic categories: Atmospheric, Hydrologic, Geologic, and Other. He indicated that each hazard must be evaluated and formally ruled out if it is not applicable to the study area, even where it seems obvious (such as in the case of volcano).

Mr. Wiedenman reviewed the Hazard Profiles and the following bullets summarize the information presented:

- ◆ DROUGHT. There have been eight years (out of the past fourteen, 2000-2013) where drought conditions have been reported as severe, extreme or exceptional in Wake County and future occurrences are likely.
- ◆ EXTREME HEAT. There have been 2 recorded extreme heat event reported since 1998 that resulted in one injury. Additional significant heat waves were reported in 1998, 2007, 2011 and 2012. Future occurrences are possible.
- ◆ HAILSTORM. There have been 261 recorded events since 1966. Future occurrences are likely.
- ◆ LIGHTNING. There have been 34 recorded lightning events since 1993, causing two deaths, and \$3.4 million in reported property damages. Future occurrences are highly likely.
- ◆ TORNADOES. There have been 33 recorded tornado events reported in the county since 1950. \$706.3 million in property damages. 7 deaths and 213 injuries have been reported. Future occurrences are likely.

- ◆ HURRICANES AND TROPICAL STORMS. NOAA data shows that 87 storm tracks have come within 75 miles of Wake County since 1850. 8 of these events were hurricanes, 55 were tropical storms and 24 were tropical depressions. Future occurrences are likely.
- ◆ THUNDERSTORM / HIGH WIND. There have been 351 severe thunderstorm events reported since 1958 with \$1.2 million in reported property damages. 1 death and 6 injuries have been reported. Future occurrences are highly likely.
- ◆ WINTER STORM. There have been 28 recorded winter events in Wake County since 1993 resulting in \$900,000 in reported property damages. Future occurrences are likely.
- ◆ EARTHQUAKES. There have been 13 recorded earthquake events in Wake County since 1886. The strongest had a recorded magnitude of VIII MMI. Future occurrences are possible.
- ◆ LANDSLIDE. There have been 11 recorded landslide events in Wake County. Future occurrences are possible.
- ◆ DAM FAILURE. There are 401 dams in Wake County, 144 of which are classified as high hazard dams. There have been 8 reported failures. Future occurrences are unlikely.
- ◆ EROSION. Erosion was included in some of the previous plans but impacts are minimal. Future occurrences are possible.
- ◆ FLOOD. There have been 100 flood events recorded in Wake County since 1995, resulting in \$10.6 million in property damage. There have been 825 NFIP losses since 1978 and approximately \$19.8 million in claims. 131 repetitive loss properties in the county account for 374 of the recorded losses. Future occurrences are likely.
- ◆ HAZARDOUS MATERIALS INCIDENTS. There have been 125 reported hazardous materials events reported in the county. Only 1 was reported as a serious incident. Future occurrences are likely.
- ◆ WILDFIRE. There is an average of 15.5 fires per year reported in Wake County. Future occurrences are likely but major events are not common.
- ◆ NUCLEAR ACCIDENT. There have been 33 minor historic nuclear events reported between the Shearon Harris and PULSTAR facilities. Future occurrences are unlikely.
- ◆ TERROR THREAT. There have been no historic terror events reported in Wake County. Future occurrences are unlikely although there are some potential targets in the County.

In concluding the review of Hazard Profiles, Mr. Wiedenman stated if anyone had additional information for the hazard profiles, or disagreed with any of the data presented, they should call or email him with their concerns.

The results of the hazard identification process were used to generate a Priority Risk Index (PRI), which categorizes and prioritizes potential hazards as high, moderate or low risk based on probability, impact, spatial extent, warning time, and duration. The highest PRI was assigned to Severe Thunderstorm/High

Wind, Hurricane/Tropical Storm, Tornado, Flood, and Nuclear Accident, followed by Drought, Extreme Heat, Hailstorm, Winter Storm/Freeze, HAZMAT Incident and Terror Threat. The Work Groups voted to move Nuclear Accident down to a moderate risk hazard.

Other general comments on the risk assessment from Work Group members are as follows:

- May need to revisit the erosion hazard as many of the jurisdictions have areas of localized erosion that pose a risk to infrastructure and/or structures.
- Terror threat is a great concern because there are 42 sites in Raleigh that are considered of high importance and potential targets of national significance.

Mr. Wiedenman then discussed Critical Facilities with the group. He stated what facilities were being included in the plan as being considered "critical". He stated that this listing differed from what some of the jurisdictions considered critical facilities in previous versions of their plans but that, a standardization of the listing was needed in order to be consistent with the analysis. He stated that "other" critical facilities could be provided and would be considered "secondary" critical facilities but would not be analyzed for vulnerability to hazards.

Mr. Slaughter presented the Capability Assessment Findings. Atkins has developed a scoring system that was used to rank the participating jurisdictions in terms of capability in four major areas (Planning and Regulatory; Administrative and Technical; Fiscal; Political). Important capability indicators include National Flood Insurance Program (NFIP) participation, Building Code Effective Grading Schedule (BCEGS) score, Community Rating System (CRS) participation, and the Local Capability Assessment Survey conducted by Atkins.

Mr. Slaughter reviewed the findings on which jurisdictions have the Relevant Plans and Ordinances, Relevant Staff/Personnel Resources, and Relevant Fiscal Resources. All of these categories were used to rate the overall capability of the participating counties and jurisdictions. All jurisdictions are in the high capability range for Planning and Regulatory Capability and most are in the moderate/high range for Fiscal Capability. Based upon the scoring methodology developed by Atkins, it was determined that all of the participating jurisdictions have at least moderate capability to implement hazard mitigation programs and activities and most fall into the high capability category.

Mr. Slaughter gave an overview of Mitigation Strategy Development. He reminded attendees that the goals for the plan were developed at the first Work Group meeting. He also reminded attendees that at the first Work Group meeting he asked them to start providing updates for the existing mitigation actions from old plans. He stated that he needed the updates provided by January 31. Finally Mr. Slaughter and Mr. Wiedenman discussed identification of new actions to include in the plan. Mr. Wiedenman presented specific mitigation actions to be considered by the Work Group members that were tailored specifically for their jurisdictions. The suggested actions were based on findings from the risk assessment and capability assessments.

Mr. Slaughter asked attendees to submit any new mitigation actions for the plan by email by February 28, 2014. He then reminded the Work Group members about the need to advertise the public survey

for the plan. He stated that the survey had only 112 responses so far and that the survey would close on March 30. He then quickly reviewed the project schedule with the work group and then discussed next steps. The next steps included:

- Continuing public outreach
- Making adjustments to Risk Assessment (Atkins)
- Making adjustments to Capability Assessment (Atkins)
- Completing Jurisdiction-Specific Annexes (Atkins)
- Providing any New Mitigation Actions (Local Governments)
- Holding a Coordinating Committee Meeting (Atkins/TJCOG)

The being no questions and no other items for discussion, the meeting was adjourned.

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**West Wake Work Group Meeting #2**  
**January 31, 2014**

Nathan Slaughter, Project Manager from the project consultant, Atkins initiated the meeting by welcoming meeting attendees. He briefly explained the overall purpose of the meeting and briefly ran through the agenda items to be covered. He then asked meeting attendees to introduce themselves.

He provided a quick recap on how the regional work groups were set up and then provided a quick discussion of the project tasks involved with developing the hazard mitigation plan. He stated that the purpose of the meeting was to provide initial findings from the Risk Assessment and Capability Assessment and to start working on the Mitigation Strategy.

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- Terror threat is a great concern because there are 42 sites in Raleigh that are considered of high importance and potential targets of national significance.

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Mr. Slaughter presented the Capability Assessment Findings. Atkins has developed a scoring system that was used to rank the participating jurisdictions in terms of capability in four major areas (Planning and Regulatory; Administrative and Technical; Fiscal; Political). Important capability indicators include National Flood Insurance Program (NFIP) participation, Building Code Effective Grading Schedule (BCEGS) score, Community Rating System (CRS) participation, and the Local Capability Assessment Survey conducted by Atkins.

Mr. Slaughter reviewed the findings on which jurisdictions have the Relevant Plans and Ordinances, Relevant Staff/Personnel Resources, and Relevant Fiscal Resources. All of these categories were used to rate the overall capability of the participating counties and jurisdictions. All jurisdictions are in the high capability range for Planning and Regulatory Capability and most are in the moderate/high range for Fiscal Capability. Based upon the scoring methodology developed by Atkins, it was determined that all of the participating jurisdictions have at least moderate capability to implement hazard mitigation programs and activities and most fall into the high capability category.

Mr. Slaughter gave an overview of Mitigation Strategy Development. He reminded attendees that the goals for the plan were developed at the first Work Group meeting. He also reminded attendees that at the first Work Group meeting he asked them to start providing updates for the existing mitigation actions from old plans. He stated that he needed the updates provided by January 31. Finally Mr. Slaughter and Mr. Wiedenman discussed identification of new actions to include in the plan. Mr. Wiedenman presented specific mitigation actions to be considered by the Work Group members that were tailored specifically for their jurisdictions. The suggested actions were based on findings from the risk assessment and capability assessments.

Mr. Slaughter asked attendees to submit any new mitigation actions for the plan by email by February 28, 2014. He then reminded the Work Group members about the need to advertise the public survey

for the plan. He stated that the survey had only 112 responses so far and that the survey would close on March 30. He then quickly reviewed the project schedule with the work group and then discussed next steps. The next steps included:

- Continuing public outreach
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- Making adjustments to Capability Assessment (Atkins)
- Completing Jurisdiction-Specific Annexes (Atkins)
- Providing any New Mitigation Actions (Local Governments)
- Holding a Coordinating Committee Meeting (Atkins/TJCOG)

The being no questions and no other items for discussion, the meeting was adjourned.

**Meeting Minutes**  
**Wake County Multi-Jurisdictional Hazard Mitigation Plan**  
**Coordinating Committee Meeting #1**  
**April 1, 2014**

Nathan Slaughter, Project Manager from the project consultant Atkins, started the meeting by welcoming the attendees and explaining the purpose of the group, which is to provide input on the Wake County Multi-Jurisdictional Mitigation Plan. Sarah Bruce with Triangle J Council of Governments explained that participants for this advisory committee had been identified through an extensive process of contacting various groups, including groups serving disabled populations, Spanish speakers, and businesses.

Mr. Slaughter led the meeting and began by providing an overview of the agenda items and briefly reviewed each of the handouts that were distributed in the meeting packets (agenda and presentation slides). He then asked each of the meeting attendees to introduce themselves. Following introductions, he provided a brief overview of the meeting agenda and the stages of the mitigation planning process that would be addressed through this plan.

He emphasized that mitigation refers to actions (projects, policies, plans) to reduce the impacts of future hazard events. The hazard mitigation planning process looks at hazards, capability to conduct mitigation, and specific activities to reduce impacts of hazards. He stressed that a mitigation plan is not a response plan.

He explained how Federal legislation requires local governments to have a hazard mitigation plan in place to remain eligible for federal mitigation grants (e.g., HMGP, FMAP, PDM). So, there is funding to implement some of the actions that this plan may identify. North Carolina also has NC Senate Bill 300 that requires mitigation plans be in place in order to receive state recovery funds. The State (NC Emergency Management) is encouraging local governments to do multijurisdictional planning, which helps everything be more efficient and coordinated.

He explained to the group that all local governments in Wake County already have a mitigation plan. They expire at different times, but they all will be on the same schedule after this plan is completed. Atkins is in the process of pulling out and updating relevant information from existing plans. The project schedule estimates 6 months for compiling and updating the plan and 6 months for plan review and adoption.

He explained that there are two Regional Work Groups (eastern and western Wake), which have been working through the steps in the planning process for their respective areas:

1. Identify and analyze hazards, risk assessment
2. Capability assessment (of local governments)
3. Mitigation Strategy – specific activities to reduce future impacts
4. Documentation and maintenance

**Risk Assessment**

Mr. Slaughter explained that FEMA requires that plans address natural hazards, but all-hazards approach is becoming more prevalent. Some manmade/technological hazards have been included in the hazard identification, but vulnerability assessment focuses more on the natural hazards since more mitigation funding is available for natural hazards. Mr. Slaughter presented the list of hazards to be addressed in the plan. He explained that the initial list of hazards was approved by both of the regional Work Groups.

The Coordinating Committee made the following suggestions regarding the Hazard Identification:

- Consider adding additional hazard: **Infrastructure Failure**
  - Power grid failure
  - Fiber line cut
  - Water system failure

NC has a State Energy Assurance Plan that covers gas pipelines and power grid failures, but it might not be specific to Wake County. Duration of failure is important. Shortages may also cause impacts.

- Consider adding additional hazard: **Financial system collapse/Oil supply disruption/Civil unrest**  
Consider how to manage impacts of these, even if there is nothing we can do to prevent them.

- Consider rephrasing: **Terror threat to terror impact**

This terminology should be more specific to the actual action/problem. The impact of a terrorist event is the hazard, not the “threat”.

- Consider adding additional hazard: **Transportation system incident**

Airport and train lines accidents might be hazmat related, but impacts would not necessarily be related to hazmat.

- Regarding **Geological subsidence**: Fracking-related subsidence might be something to consider in the future.

- Consider adding additional hazard: **Asteroids**

NC used to have asteroids in state plan; FEMA said revisit and remove, but it has happened (Russia last year)

- Consider adding additional hazard: **Insect-borne illnesses/pandemics**

West Nile is an example of this hazard.

The group also discussed **nuclear accidents** (there is a nuclear bomb in Goldsboro; NCSU has a nuclear power plant, as well as Shearon Harris. Hospitals have to control Cesium tablets.)

The group also discussed synchronous/cascading events. The probability of future occurrences is considered in isolation, but cascading effects are considered in the plan. Consider enhancing language on probability vs “500-year event” to be clear that hazards don’t observe the frequency that might be used as a shorthand for statistical probability.

### **Capability Assessment**

Mr. Slaughter explained the community capability assessment and discussed how capability is divided primarily into 3 categories:

- Administrative
- Technical
- Fiscal

Mr. Slaughter explained that results from the capability assessment indicate that capability to implement mitigation measures in Wake County is pretty high compared to the rest of the country.

### **Mitigation Strategy**

Mr. Slaughter discussed the six mitigation techniques and then presented the mitigation goals for the plan. He explained that the existing plans all have separate goals, which were the basis for the draft goals for the multijurisdictional plan. He then explained how each existing plan included mitigation

actions, which have been compiled as a starting point, and jurisdictions have been asked to update these.

### **Public Involvement**

Mr. Slaughter explained how public comment and participation is a required part of this process. A public survey was developed and extensively disseminated, to which approximately 500 responses were received. WRAL also ran a story on the plan update process.

The group suggested posting the draft plan for public comment to

- RTP Foundation and Chamber
- Senior living centers, day centers
- Large employers
- Local governments (newsletters?)
- Public libraries
- Utility mailings (Duke, CORPUD)

Ms. Bruce gave an update on the wiki (project website). She explained how to join the wiki and post comments there or just email them to Sarah and Nathan. The wiki will still allow staff to share files with the group without having to use email attachments.

There being no other questions or topics of discussion, the meeting was adjourned.

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Project Kickoff Meeting

November 21, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Leslie O'Connor	Five Dept.	Cary	919-624-4447	leslieoconnor2013@gmail.com
Brad Robinson	Fire Dept	Cary	919-676-3198	rescue4pk@yahoo.com
Chris Lukasik	CAMPO		919-896-4400	CHRIS.LUKASIK@CAMPO-NEWS.COM
Jeff Jeals	Town of Holly Springs	Holly Springs	919 557-3908	jeff.jeals@hollyspringsnc.org
TIM MALONEY	WAKE COUNTY		919-856-6678	tmaloney@wakegov.com
JOSH Creighton	WAKE Co		919 856 6885	joshua.creighton@wakegov.com

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Project Kickoff Meeting

November 21, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
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Patrick Reidy	Town of Wendell	Wendell	919-365-4448	preidy@townofwendell.com
Brian Bulla	NC SU	Raleigh		lbulla@ncsu.edu
Emily B McCarty	NC SU	Raleigh		emccart@ncsu.edu
Lisa Booze	City of Raleigh	Raleigh		Lisa.booze@raleighnc.gov
Thomas Lloyd	Town of Rolesville	Rolesville	919-554-6517	Thomas.Lloyd@rolesville.nc.gov
Charles Brown	Town of Cary	Cary	919-469-4038	Charles.brown@townofcary.org

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Project Kickoff Meeting

November 21, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Kenneth Withrow	NC Capital Area MPO	Raleigh	(919) 996-4394	kenneth.withrow@campo-nc.us
LOUIS HUFHAM	RESIDENT + STUDENT	KNIGHTDALE	(919) 217-6118	hufham4@bellsouth.net
Sarah DeYoung	North Carolina State University	Raleigh	(919) 760-9229	sedeyoun@ncsu.edu
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Samantha Smith	Town of Fuquay-Varina	→	919 552 1421	ssmith@fuquay-varina.org
Jack Moyer	URS	Morrisville	919-961-1472	jack.moyer@urs.com
Mark Hetrick	Town of Zebulon		919-823-1808	mhetrick@townofzebulon.org
Daniel Weeks	Holly Springs	→	919-557-2924	daniel.weeks@hollyspringsnc.org

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Project Kickoff Meeting

November 21, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
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Toy Beeninga	NC STATE	Raleigh	336-681-3825	tbeening@ncsu.edu
JUNE COMBS	Apex	Apex	919 249 3331	june.combs@apexnc.org
Will Brown	Apex	Apex	919-249-3336	will.brown@apexnc.org
Courtney Tanner	Morrisville	Morrisville	919-403-6194	ctanner@morrisville-nc.gov

Jeff Frierenbergs  
Knightdale  
919-217-2245  
jeff.frierenbergs@knightdalenc.gov

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Project Kickoff Meeting

November 21, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Jachyn Rametta	Town of Garner	Garner	919-773-4421	JRAMETTA@garnernc.gov
Kim Brennan	CRC	Apex	919-637-1940	kbrennan@colloc.com
Agnes Wanman	Town of Wake Forest Planning	Wake Forest	919-435-9516	awanman@wakeforestnc.gov
Robert Greer	citizen	Garner	919-772-7740	rgreer2@nc.rr.com

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Eastern Wake Work Group Meeting

December 12, 2013  
 10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Agnes Wanman	Plan. Dept <del>Town of Wake</del> Forest	Wake Forest	919-435-9516	awanman@wakeforestnc.gov
TIM MAONEY	WAKE CO. PLANNING		919-856-6678	timaloney@wakegov.com
THOMAS CLOYD	Rolesville Planning	Rolesville	919-556-3506	thomas.lloyd@rolesville.nc.gov
JULIE SPAGGS	ZEBULON	ZEBULON	919 823 1809	jspags@townofzebulon.org
Charles Yokley	Planning <del>FOR</del>	Wake Forest	919-435-9317	cyokley@wakeforestnc.gov
Tim Guffey	Knightdale Fire	Knightdale	919-217-2270	tim.guffey@knightdalenc.gov
FRED BOONE	TOK	"	919-217-2250	Fred.boone@knightdalenc.gov

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Eastern Wake Work Group Meeting

December 12, 2013  
 10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
JEFF TRIENZENBERG	Town of KNIGHTDALE		919-217-2245	jeff.trienzenberg@knightdalenc.gov
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Patrick Reidy	Town of Wendell			preidy@townofwendell.com

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Western Wake Work Group Meeting

December 13, 2013  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Chuck Queen	Town of Morrisville	Morrisville	919-463-7121	queen@townofmorrisville.org
Jeff Jones	Town of Holly Springs	Holly Springs	919-557-3908	jeffjones@hollyspringsnc.us
Daniel Weeks	"	"	919-557-2924	daniel.wee@hollyspringsnc.us
Mary Beerman	Town of Cary	Cary	919-469-1342	mary.beerman@townofcary.org
DERRICK BEMER	CITY OF RALEIGH	RALEIGH	919-996-4657	derrick.rener@raleighnc.gov
Camie Smith	Town of Fuquay Varina	-	919-552-1421	smith@fuquay-varina.org
June Cowles	Town of Apex	Apex	919-249-3331	june.cowles@apexnc.org
Charles Brown	Town of Cary	Cary	919-469-4038	Charles.brown@townofcary.org

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Western Wake Work Group Meeting

December 13, 2013  
 10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
SHARON PETERSON	WAKE COUNTY PLANNING	County	919 856-6325	Sharon.peterson@wakegov.com

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Eastern Wake Work Group Meeting

January 28, 2014  
 10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Sarah Bruce	TJCOG	RTP/Durham	919-558-9343	sbruce@tjcoq.org
Julie Spigg	Town of Zebulun	Zebulun	919 823 1809	jpspigg@townofzebulun.org
JEFF FRIESENBERG	Town of KNIGHTDALE	KNIGHTDALE	919-217-2245	jeff.friescenberg@knig.htdalcnc.gov
TIM MAHONEY	WAKE CO.	RAVENS	919-773-4175	tmahoney@wakegov.com
Patrick Reidy	Wendell	Wendell	919-365-4448	preidy@townofwendell.com
Thomas Clout	Robesville	Robesville	919.556.3506	thomas.lloyd@robesville.nc.gov

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
Western Wake Work Group Meeting

January 31, 2014  
10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Samantha Smith	TCFV	TCFV	919 552 1421	SSMITH@fcj.org - varina.org
Chuck Queen	Town of Morrisville		919-463-7121	cqueen@ townofmorrisville.org
Josh Creighton	Wake Co	N/A	919 856 6485	Joshua.Creighton @wakegov.com
June Cowles	Town of Apex	←	919 249-3331	June.cowles @apexnc.org
Courtney Tanner	Town of Morrisville	—	919-463-6199	ctanner@ townofmorrisville.org
Sharon Petersen	Wake Co	N/A	919 856-6325	sharon.petersen@ wakegov.com
RODNEY DICKERSON	Town of GARNER		919-773-4401	rdickerson@ garnernc.gov
Brad West	Town of Morrisville	TOM	919 463 6926	bwest@townof morrisville.org

Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Western Wake Work Group Meeting

January 31, 2014  
 10:00 AM - Noon

Name	Agency	City	Phone Number	E-mail Address
Jacky Rametta	Town of Garner	Garner	919-773-4421	jrametta@garner.gov
Dinah Brown	Town of Cary	Cary	919-469-4038	Charles.Brown@townofcary.org

**Wake County Hazard Mitigation Plan Coordinating Committee**  
**April 1, 2014**

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4	Kyle Bolton	Cary Cert	kbolton@ncsu.edu
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6	Dave Wulff	Campbell University	dwulffie@gmail.com
7	WENDELL GOODWIN	WAKE TECH	WBGOODWIN@WAKE TECH.EDU
8	ROB BENTON	WAKE TECH	RBENTON@WAKE TECH.EDU
9	Steve Hardin	WAKE TECH	srhardin@waketech.edu
10	TOM HEGELE	CARY CERT	Thagele@quark.com
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12	John Faison	CIR	jfaison@cisraleigh.org
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Wake County Multi-Jurisdictional Hazard Mitigation Plan  
 Final Public Meeting

December 30, 2014  
 6:00 PM

Name	Address	City	Phone Number	E-mail Address
DERICK REMER	222 W. HARGETT ST	RALEIGH	919-996-4657	DERICK.REMER@RA-LEIGH.NC.GOV
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