

USSC Meeting

October 18, 2018

Attendees: Derek Kemp, Doug Cyr, Beverly Errede, David Kaufman, Mary Beth Koza, Chris Payne, Michael Rolleri, Anna Wu

Guests: Cathy Brennan, Garry Coulson, Mary Crabtree, Darrell Jeter, Roger Sit

Minutes:

1. Radiation Safety Program Update – Roger Sit provided an update on the current state and scope of the program at the University, highlighting the outcomes of 16 total regulatory inspections conducted in 2017-2018 for licensing, registration and accreditation purposes. Upcoming projects and challenges for the program in 2018-2019 were also discussed.
2. Hurricane Florence Lessons – Cathy Brennan provided an update on emergency preparedness and response operations in response to Hurricane Florence. This update included discussions on measures taken during the hurricane to safeguard research staff and best prepare laboratory research spaces for the hurricane. An update was also provided regarding the support operations for UNC Wilmington which had received significant damage from the storm.
3. Hurricane Florence and Hurricane Michael - Darrell Jeter summarized the Emergency Operations activities of the University in response to Hurricane Florence and Hurricane Michael. Included in this summary was information on staffing of the Emergency Operations Center (EOC), a current damage assessment of the two storms, and support operations for the shelter at the Friday Center for UNC-Pembroke and UNC-Wilmington evacuees.
4. Business Continuity – Darrell Jeter discussed some plans and initiatives regarding business continuity, including Fall siren tests, development of an Emergency Management website, and updates to Emergency Operations plans.
5. Biosafety Month – Mary Beth Koza discussed an ongoing initiative at the University to identify all freezers and refrigerators on campus as part of an overall assessment of capacity for the emergency backup power system. This initiative formed the focus for the annual Biosafety Month program the University participates in each October.

6. Campus Safety & Security – Derek Kemp spoke about recent protests and rallies centered around the “Silent Sam” monument and some joint operations conducted by UNC-CH and the Town of Chapel Hill for safeguarding the campus.

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Agenda

1. Introductions
2. Annual Radiation Safety Review
3. October is National Biosafety Month
4. UNC-CH Flu Clinics
5. Hurricane Florence lessons learned – Research
6. Emergency Management Update
7. Campus Safety Update

All

Roger Sit

Mary Beth Koza

Mary Beth Koza

Cathy Brennan

Darrell Jeter

Derek Kemp

Items in **BOLD** must be approved by Committee



FINANCE AND OPERATIONS

Environment, Health and Safety

Radiation Safety Program Update

Roger Sit - rcsit@ehs.unc.edu



FINANCE AND OPERATIONS

Environment, Health and Safety

Program Summary – Ionizing Radiation

- The Radiation Safety Office (RSO) manages 8 radioactive materials licenses including the University, medical center, and 2 off-site campuses
- The RSO manages 21 X-ray registrations covering approximately 333 radiation producing machines
- The RSO licenses:
 - approximately 90 PIs to use radioactive materials
 - 6 facilities containing large quantities of materials under NRC,DHS high security rules
 - A high energy proton cyclotron with associated radio-pharmacy
 - A high energy proton biomarker generator
 - A high dose-rate remote after-loader for brachytherapy (new one just installed)
 - Six medical accelerators for external beam radiation treatment (new Cyberknife installed in last 2 months)

Program Summary- Non-Ionizing Radiation

- The RSO manages research LASERs:
 - approximately 142 Class 3b and 4 LASERs (Chemistry, Physics, Computer Science, SOM)
- The RSO handles magnetic field exposure issues:
 - 19 research NMRs ranging from 300 to 850 MHz
 - 4 research MRIs ranging up to 7T for humans and 9.4T for small animals
- The RSO handles Rf exposure issues:
 - DAS (Distributed Antennae System)
 - Wireless access point exposure
 - Radio tower exposure (NC Public Radio and UNC TV)
 - Wi-fi antennae by non-University entities
 - Office EMF concerns

Regulatory Inspection Update for Fiscal '17-'18 to date

- Six (6) Radioactive materials license inspections:
 - Including Kannapolis and IMS
 - No citations
- Eight (8) X-ray registration inspections
 - One (1) radiographic inspection
 - Seven (7) MQSA inspections (FDA and NC-RPS)
 - No citations
- One (1) ACR (American College of Radiology) Accreditation inspection
 - No Radiation safety program citations
- One (1) CAP (College of American Pathologists) Accreditation inspection
 - No Radiation safety program citations

Upcoming Projects/Challenges

- Design, planning, and licensing for a Proton Therapy facility at the NCCH
- Acquisition of M&D (Manufacturing and Distribution) license for the cyclotron radio-pharmacy
- Design, planning, and licensing of a new Linac accelerator at the Hillsborough Hospital.

Hurricane Florence Lessons Learned - Research

Cathy Brennan

crbrennan@ehs.unc.edu



FINANCE AND OPERATIONS

Environment, Health and Safety

Hurricane Preparedness Webpage

- <https://ehs.unc.edu/emergency/hurricane-tornado-preparedness-unc-laboratories/>

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Emergency Preparedness

- Communicable Disease Emergency
- Continuity of Operations Planning
- Continuity of Operations Planning
- Emergencies
- Elements of Good Preparation
- Hurricane and Tornado Preparedness for UNC Laboratories**
- Lab Emergency Preparedness Checklist
- Natural Hazard Mitigation Plan

Hurricane and Tornado Preparedness for UNC Laboratories

Hurricanes, tornadoes, high winds, flooding and other natural disasters can threaten the safety of laboratory personnel and detrimentally effect research operations in campus laboratories. Laboratory preparedness plans should be developed prior to these disaster events to ensure the preservation of life and property. The information outlined below is specific to campus laboratories. For general emergency preparedness information please see [Alert Carolina](#).

✓ Lab Emergency Preparedness Checklist

Hurricanes | **Tornadoes**

Although Chapel Hill is not directly adjacent to the coast, hurricanes have caused devastation in our area previously due to high winds and flooding. In order to properly plan a course of action in research laboratories, it is important to understand the difference between a hurricane watch and hurricane warning. Both will be announced with plenty of time to implement laboratory preparedness procedures before leaving the lab.

PREPARATION – Email Correspondence

- Emails sent to all laboratory Principal Investigators and Safety Supervisors (~1000):
 - Email sent Monday, 9/10/18 regarding preparation and referencing EHS Hurricane Preparedness Checklist and website.
 - Email sent Tuesday, 9/11/2018 regarding Condition 2 starting at 5pm Sept 12th and that this includes all labs and research staff unless mandatory.
 - Email sent on Wednesday, 9/12/2018 regarding final preparations and to reiterate that only staff flagged as mandatory should come in.

PREPARATION - Mandatory Research Staff

- EHS spreadsheet started with mandatory research staff that would be on campus and contact info
- Approximately 150 registered prior to Condition 2 starting on Wednesday, 9/12/18
- EHS staff performed spot checks in each research building on Thursday, 9/13/18 to ensure researchers on site were registered
- Several research staff did not know whether they were considered mandatory or not

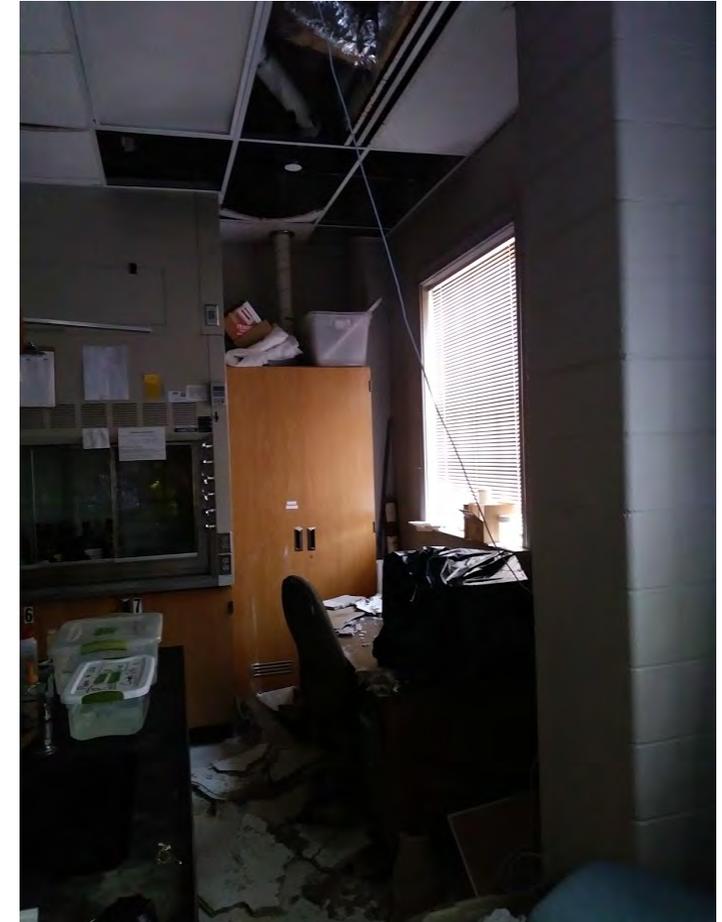
RESPONSE – Emergency Operations Center

- EHS staffed EOC as Safety Officer throughout event
- In addition to general safety, tracked research issues and staffing, including animal research
- Research mandatory staff spreadsheet was updated on a daily basis



UNC Wilmington Support

- Dobo Hall – Biology and Chemistry Departments
 - Partial roof failure, building flooding
 - Power out for 10 days – generator failed
 - Fire alarm system failure
- UNC-CH EHS Staffing
 - Erika England – Damage Assessment
 - Steve Parker – Hazardous Chemicals/Waste Support
 - Mary Crabtree – EHS Support
 - Mike Novitsky – Hazardous Chemicals/Waste Support
 - Cathy Brennan – Chemical Safety/Lab Safety Support



Lessons Learned from UNCW

- Freezer inventory - already in progress
- Need inventory of what equipment is plugged into “red outlets”
- Map layer of research buildings with generators
- Building damage assessment form to include research items
- Plan for researchers that need to access damaged building – PPE, waivers, etc
- Security after disaster for building access to include contractor access