

## **USSC Meeting**

**June 22, 2017**

Attendees: Lorraine Alexander, Linc Butler, Beverly Errede, Judy Faubert, David Kauffman, Mary Beth Koza, Chris Payne

Guests: Cathy Brennan (EHS), Roger Sit (EHS)

### **Minutes:**

Annual Radiation Safety Update – Roger Sit provided an update on the University’s Radiation Safety program including the radioactive materials licenses, x-ray registrations and other management issues related to non-ionizing radiation. He provided an updates on the regulatory inspections that have occurred since January 2016. Two upcoming projects include the upgrade of the Remote Monitoring System and the acquisition of a Manufacturing and Distribution license for radio pharmaceuticals.

Hazardous Waste Generator Improvement Rules – MB Koza outlined the changes to the Hazardous Waste Generator Rules which were published in the Federal Register on November 28, 2016 and will be effective in North Carolina on March 1, 2018. The update will change how EHS manages laboratory wastes (Subpart K) and also labeling, waste determination and training requirements for construction and maintenance hazardous waste.

Orange County Agencies Seek Feedback on Response to February Water Interruption – MB Koza provided objectives and scope of After-Action Review for February water crisis that effected Orange County and UNC. Surveys will be distributed based on three focus areas: Governing Board survey, Agency Stakeholder survey and Community survey. The project timeline has completion of all surveys by June 30<sup>th</sup> and final After-Action Review completed by August 2017.



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# University Safety and Security Meeting June 22, 2017



# Agenda

- Introductions All
- Annual Radiation Safety Review Roger Sit
- New Hazardous Waste Rules Cathy Brennan
- Orange County Agencies Seek Feedback  
on Response to February Water Interruption MB Koza &  
Jeff McCracken





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# Radiation Safety Program Update

Roger Sit - [rcsit@ehs.unc.edu](mailto:rcsit@ehs.unc.edu)

# 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 19 X-ray registrations covering approximately 330 radiation producing machines
- The RSO licenses:
  - approximately 100 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
  - Seven medical accelerators for external beam radiation treatment



# Program Summary- Non-Ionizing Radiation

- The RSO manages research LASERs:
  - approximately 140 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
  - Portable research magnets in Psychiatry
- 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 January 2016 through June 2017

- Six (6) Radioactive materials license inspections:
  - Largest inspection was the medical license with 5 inspectors for 4 days
  - Only one inspection yielded only 1 documentation citation
- Eleven (11) X-ray registration inspections
  - Largest inspection was the medical X-ray registration with 5 inspectors for 3 days
  - Only one inspection yielded 5 citations (out of 109 x-ray machines)
- Five (5) MQSA inspections (FDA and NC-RPS)
- One (1) Reciprocity license inspection
- One (1) Special historical use inspection



# Upcoming Projects/Challenges

- Upgrade of RMS (Remote Monitoring Systems) network securing 6 facilities containing “radioactive materials in quantities of concern”
- Acquisition of M&D (Manufacturing and Distribution) license for the cyclotron radio-pharmacy





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# New HazWaste Generator Rules

# Hazardous Waste Generator Improvement Rules

- Published in Federal Register on Nov. 28, 2016
- Effective on state level on March 1, 2018
- Promulgated over 60 revisions and new provisions
- Will affect all hazardous waste generators at UNC



# Hazardous Waste Generator Improvement Rules

Some provisions less stringent

- Episodic Generation of larger quantities of waste allowed at off-campus locations (Kannapolis, Cogen, etc.) without changing generator classification
- Waste Consolidation will allow UNC Hospital to bring waste from clinics to main Hospital hazardous waste storage area



# New Rule More Restrictive Overall

- More stringent marking and labeling requirements for waste containers (words “Hazardous Waste” and waste hazards)
- Requirement to include campus hazardous waste generator locations in Contingency Plan
- Hazardous waste determination required when waste first added to a container
- SQGs renotify every 4 years, LQGs every 2 years



# How Will UNC Implement?

- Laboratory/Academic hazardous waste will be managed under Subpart K (not under new rules)
- Construction/Maintenance related waste will be managed under the Hazardous Waste Generator Improvements Rule
- Will require retraining of all employees who work in areas that produce hazardous waste
- Areas managed under new rule (not Subpart K) will be added to the Contingency Plan



# Subpart K

- More flexibility in labeling waste containers in laboratory/academic areas
- Retraining required for personnel in lab/academic areas
- Annual waste pick up required (currently no time limit)
- Labs must have a waste management plan





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## Orange County Agencies Seek Feedback on Response to February Water Interruption

[MBKoza@ehs.unc.edu](mailto:MBKoza@ehs.unc.edu)

# Project Objective and Scope

*Complete an equitable and transparent After Action Review of the Water Interruption Incident and create a community based Improvement Plan for increasing the resiliency of the Orange County Community from future incidents.*

## Focus Areas

- Operational Coordination
- Public Information coordination and dissemination
- Community Planning
- Mass Care Services (Commodity Distribution)
- Community Resilience

## Not within the scope

- Cause of the Water Interruption
- Tactical response to repairing the water infrastructure
- Water distribution methodology
- Water treatment protocols or procedures



# Data Collection

- 3 Surveys to gather first hand information from the community regarding the water outage events
- Existing and draft plans that support overall emergency response within the Orange County community to gauge planning gaps
- Incident Documentation to evaluate incident coordination, decision making methodologies, process improvements, and adherence to published plans.



# Governing Board Survey

- A controlled survey distributed to members of the organization and community's governing boards to evaluate:
  - Pre-Event awareness of existing planning frameworks or roles
  - Overall understanding of the incident
  - Information pathways and effectiveness for board members
  - Future expectations



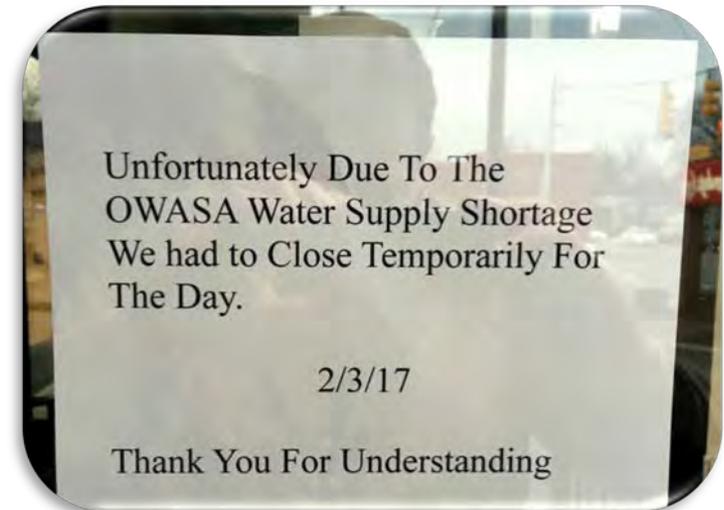
# Agency Stakeholder Survey

- A survey distributed to individuals who played a role in the coordination and management of the incident. Focus areas will include:
  - Role Identification
  - Impression of effectiveness of Emergency Operations Centers
  - Impression of communications methodologies and pathways
    - For the Public, Inter-Agency, and Intra-Agency
  - Public information creation and coordination feedback
  - Bottled water distribution system effectiveness
  - Training analysis
  - Overall feedback on areas of improvement



# Community Survey

- A survey distributed to businesses and individuals in Orange County focusing on:
  - Recalling their direct impact during the event
  - Evaluating communications methodologies and effectiveness
    - Methods of contact
    - Effectiveness
    - Clarity
  - Post event reflections on level of preparedness and agency confidence
  - Feedback on the bottled water distribution process
  - Impact to business and post incident reflections
  - Basic demographics



# Documentation Review

## Plans

- Emergency Operations Framework (EOF) from Orange County
- EOF annexes
- Orange County EOC Documents and Organization
- Other plans as necessary...

## Incident Documentation

- Situation reports
- WebEOC records
- Press releases
- Everbridge messages and settings
- State of Emergency Documentation



# Project Timeline

Project Team Kickoff Meeting

May, 2017



Project Kickoff Webinar with Stakeholders

June 15, 2017



Community Surveys

June 16, 2016

June 30, 2017



Documentation Review, Report Drafting

July, 2017



After Action Conference and Project Completion

August, 2017

