

-Fortuna Favet Paratis-

est. 2006

# 2017 Year in Review

Cullen Case Jr.

RITN Program Manager

Operated by the National Marrow  
Donor Program/Be The Match

[RITN@nmdp.org](mailto:RITN@nmdp.org)

[www.RITN.net](http://www.RITN.net)

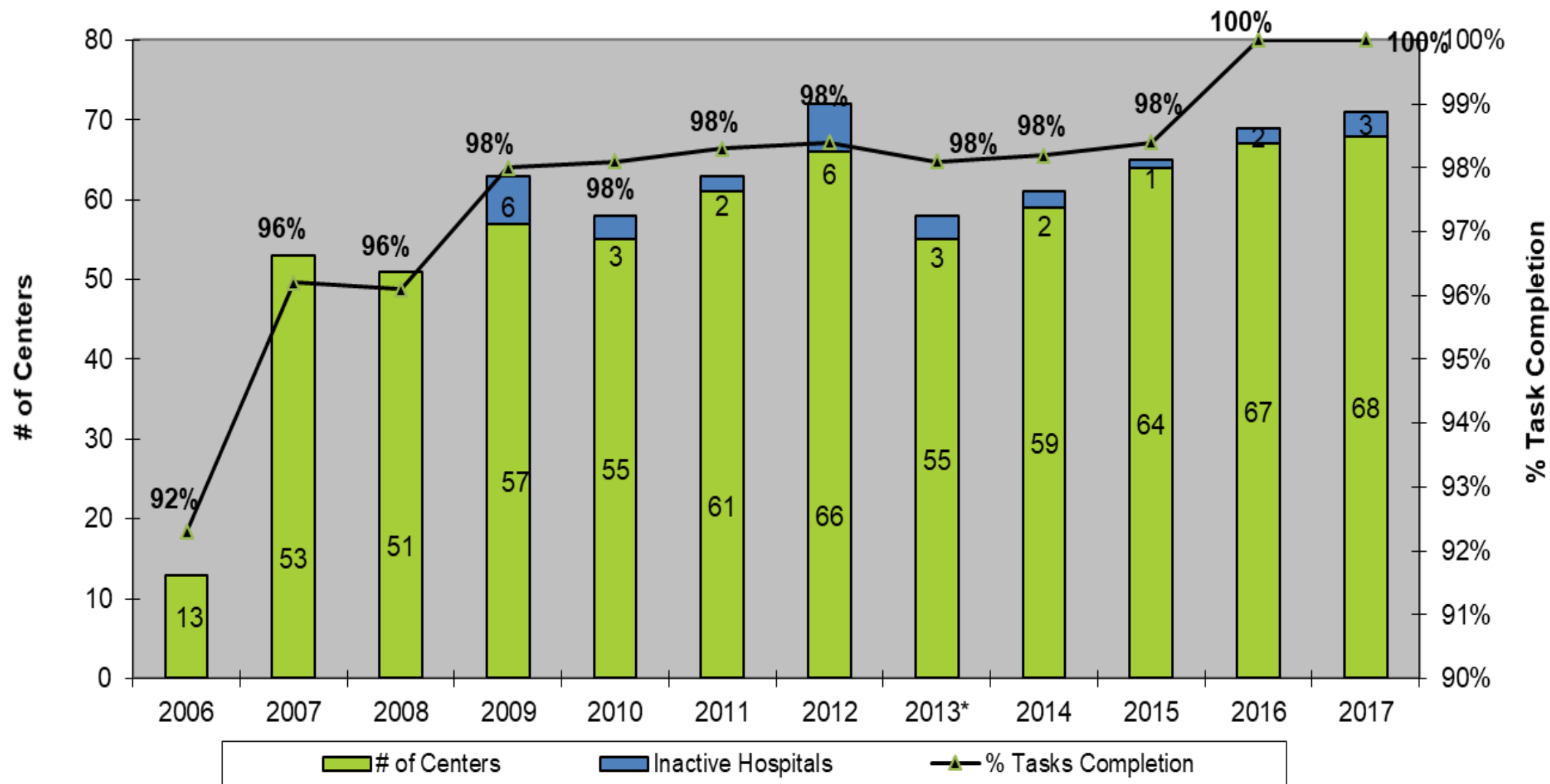
February 6, 2018





- **2017 Highlights**
- **2018 Projects and Tasks**
- **Nuclear Power Plant Preparedness Plans**
- **Questions**

# RITN Hospital Task Completion



\* Sharp decrease in 2013 was due to the removal of DC and CBB from calculations



# 2017 Highlights

- Growth of RITN by 1 (79: 68 hospitals/5 blood donor centers/6 cord blood banks)
- Update Adult/Ped Medical orders with REMM
- Data feed into ASPR EOC
- Participation in Gotham Shield
- Exercises
  - 1 Full scale exercise
  - 2 Functional exercises
  - 7 Regional tabletop exercises
  - 64 annual RITN tabletop exercise (50 through webinar)
- RITN Semi-Annual Workshop with 175 attendees
- 1 x Mobile REAC/TS training session
- 1 x AHLS Rad training course
- RITN YouTube page: <https://www.youtube.com/channel/UCkd45X1DIPqeRr-u5lph6Og>
  - RITN What You Need To Know (4 min intro video)
  - Univ. of Chicago exercise video

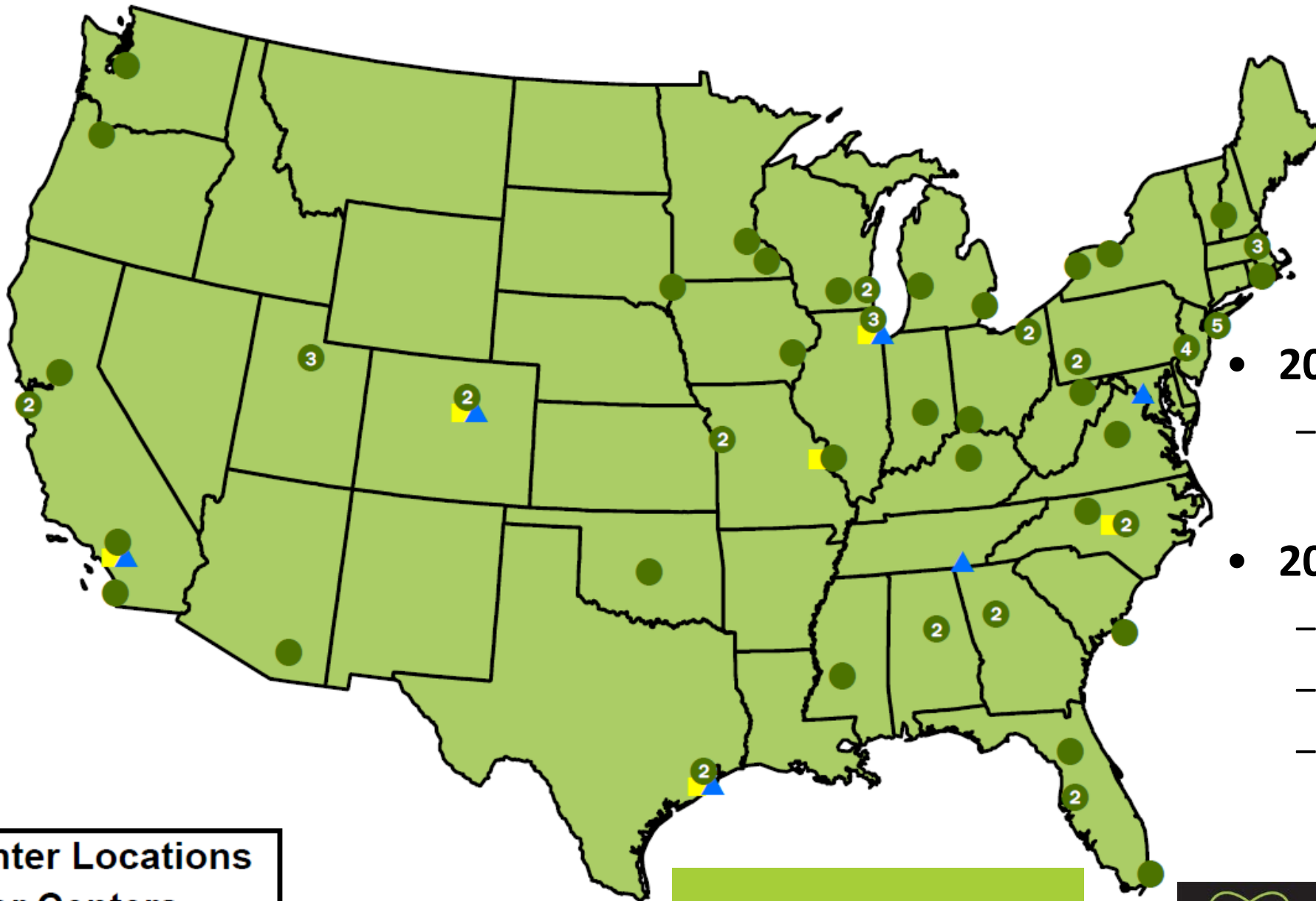
# Outreach

- Presentations:
  - NCRP Annual Meeting
  - NACCHO Prep Summit
  - ConRad (German Military Conference)
  - NDMS leadership webinar
  - FBI WMD Workgroup in AZ Radiological Awareness and Response Workshop
  - WHO-REMPAN
  - DOD Transportation Command webinar
  - ASH Annual
- NACCHO and ASTHO-NARR Projects
- Publications:
  - NCRP meeting in Health Physics Journal
  - Current Hematologic Malignancy Reports

# 2017 Exercises

RITN Center	Exercise Type
Spectrum Health	Full Scale Exercise
Massachusetts General Hospital	Functional Exercise
Rush University Hospital	Functional Exercise
Memorial Sloan Kettering	Regional Table Top Exercise (RTTX)
University of Arizona Medical Center	RTTX
Texas Children's Hospital	RTTX
Children's Mercy Hospital	RTTX
Children's Hospital of Philadelphia	RTTX
Wake Forest Baptist Health	RTTX
Spectrum Health	RTTX





- **2017 New Centers:**
  - Univ. of Chicago
- **2017 Inactive:**
  - Thomas Jefferson
  - Westchester Medical
  - All Children's

**RITN Center Locations**

- ▲ Donor Centers
- Transplant Centers
- Cord Blood Centers

For full list go to  
[RITN.net/about](http://RITN.net/about)

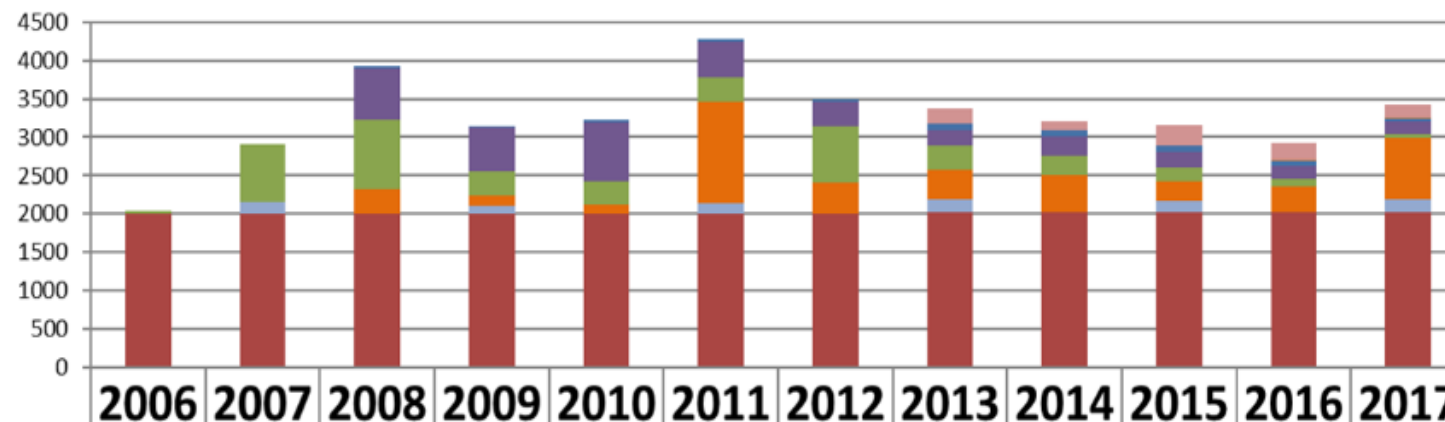


# RITN Preparedness Efforts



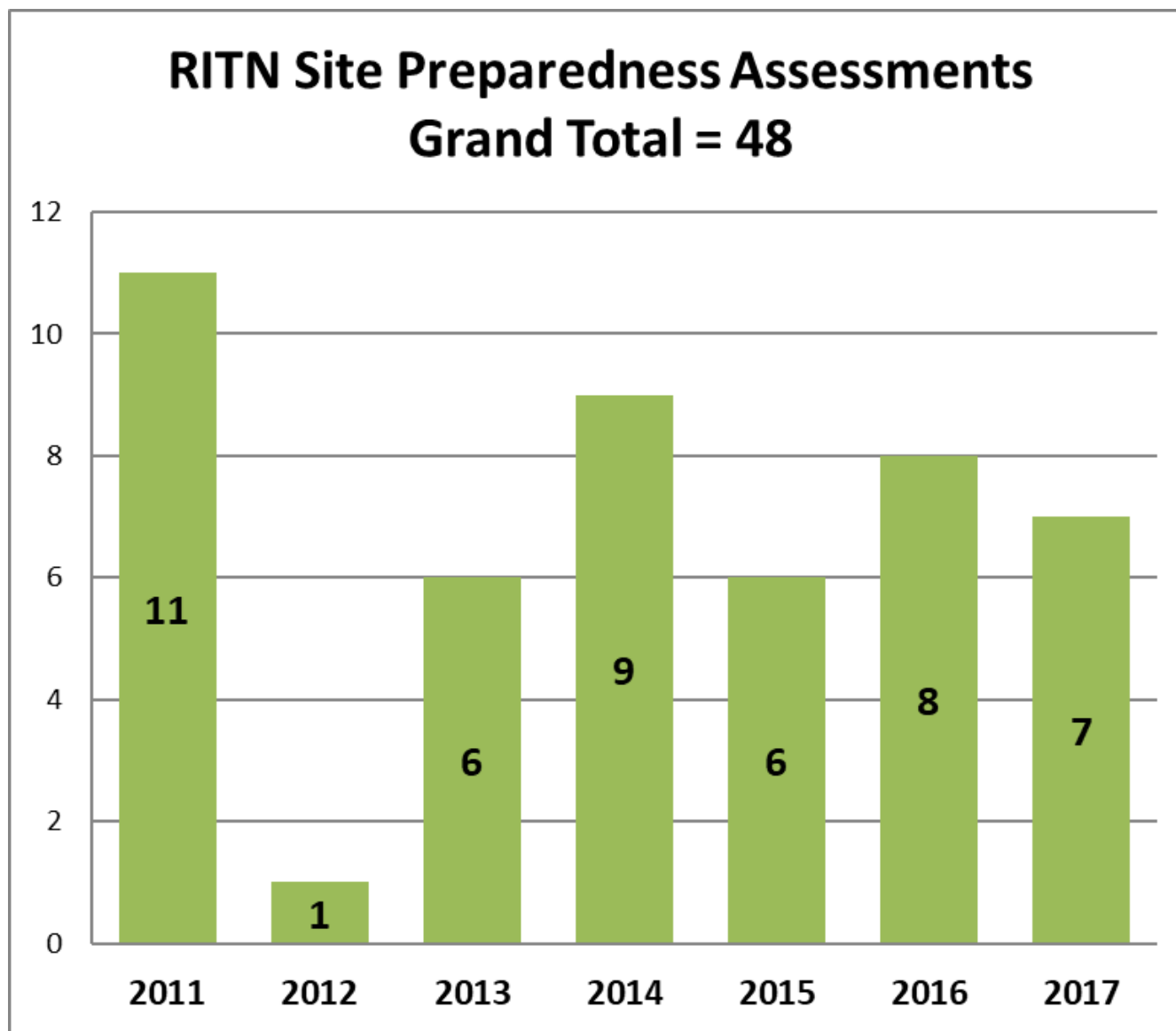
## RITN Training & Education

Grand Total = 14,984

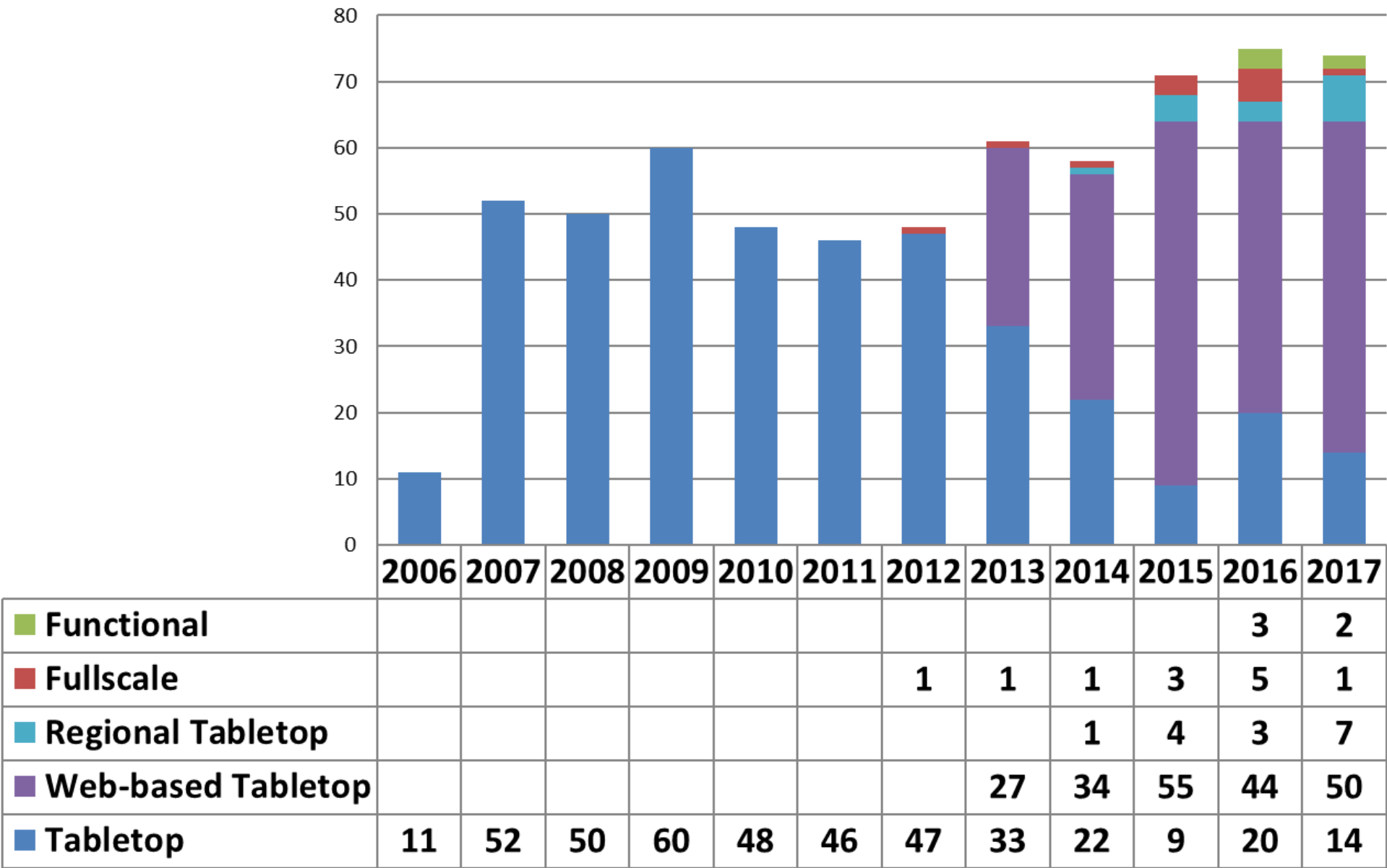


Other RITN Web Courses								192	120	267	217	163
AHLS										1	28	10
REAC/TS			38	26	46	45	26	84	77	71	58	42
Grandrounds			677	564	763	460	314	203	259	208	164	172
Basic Rad Tng	30	752	895	320	301	322	744	316	242	180	99	43
Outreach Presentation			317	139	112	1322	394	389	498	261	347	805
Biennial Conference		149		92		125		175		150		170
Year	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017

# RITN Preparedness Efforts



RITN Exercises by Year  
Grand Total = 654

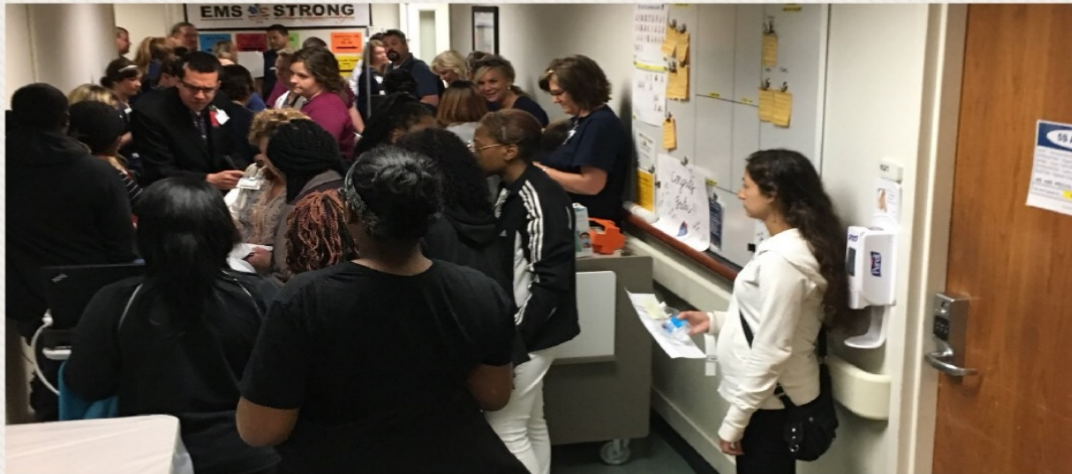


Spectrum Health emergency preparedness department  
Please return this sign to MC 203

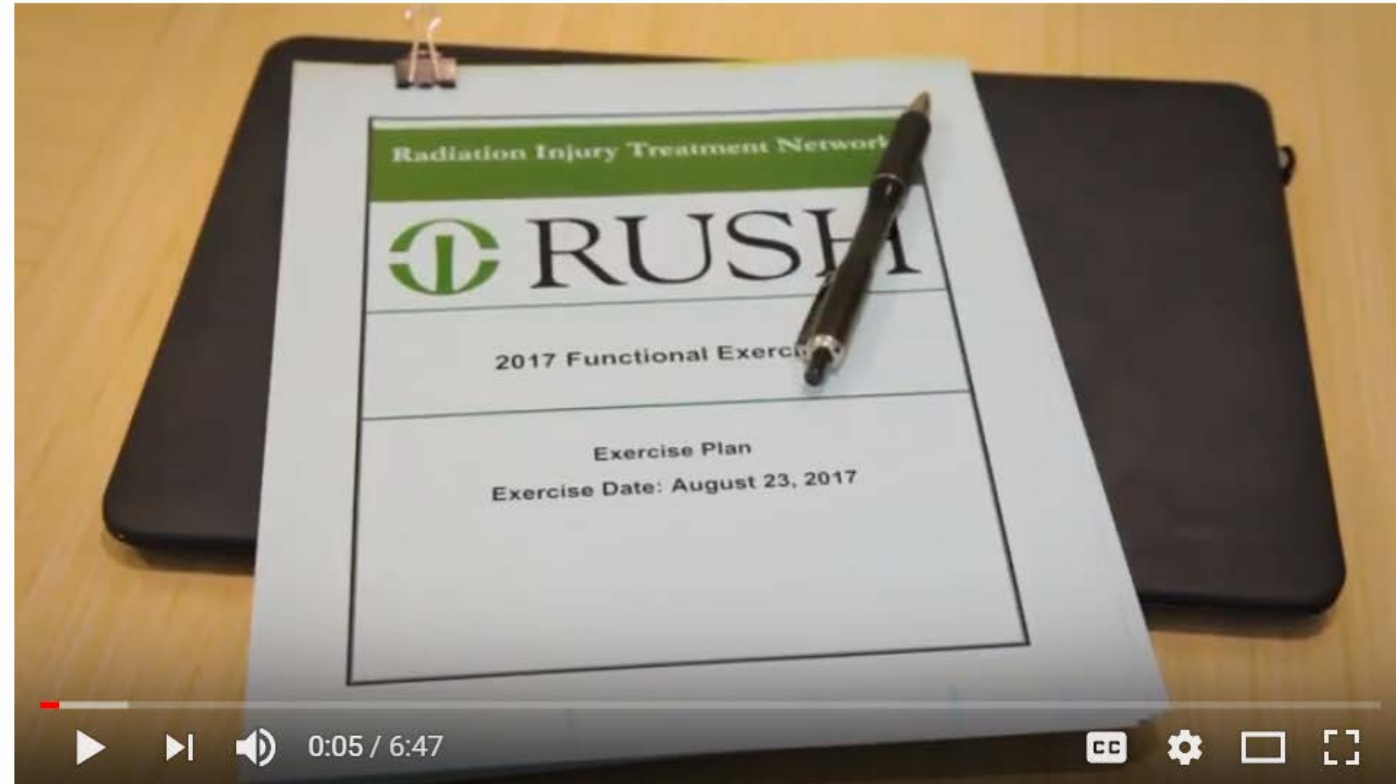
SPECTRUM HEALTH

## DISASTER EXERCISE IN PROGRESS

- Overhead pages may be made, but will be identified as **"This is a drill."**
- Spectrum Health employees will be involved and will respond according to our written Response Plans.
- Actors may participate. Some may have makeup applied to give the appearance of injury. These individuals will each wear a lanyard with card describing their injuries.





# Functional Exercises





# RITN YouTube Page





Radiation Injury Treatment Network

6 subscribers

HOME


VIDEOS

PLAYLISTS

CHANNELS

DISCUSSION

ABOUT



Emory Operation Gateway Radiation Respon...

Radiation Injury Treatment Network • 10 views • 2 months ago



**RITN**

RADIATION INJURY TREATMENT NETWORK

What You Need To Know



0:01 / 4:18







# 2018 Projects and Tasks

- Grow RITN
- Projects:
  - NACCHO preparedness gap analysis
  - ASTHO rad. training courses for new public health preparedness staff
  - Lab Surge Plan Development
  - Cytokine Triage Guidelines Development
  - Pre-NDMS transportation ARS patient care training
  - Updating SOP template
  - Updating ConOps
- Site Assessments
- Creation of RITN Advisory Committee (more TBA)

# 2018 Opportunities

- RITN sponsored training opportunities:
  - AHLS @ Tandem in Salt Lake City, UT – Feb. 20 (1-5pm)
  - REAC/TS @ Banner in Tucson, AZ – April 3 (8am – 5pm)
  - AHLS @ TX Children's in Houston, TX – May 2 (first session 8am-noon and second session 1-5pm)
- RITN Meeting at ASBMT/CIBMTR Tandem in SLC, UT
  - 22 Feb 18 from 12-2 PM mountain
  - Room 151 AB
  - Lunch provided

# NACCHO Preparedness Summit Grant

- \$2,000 Travel Grant for NACCHO Prep Summit (15-20 April, 2018 in Atlanta)
  - Grant paid in advance
  - If your institution spends less than the \$2,000 your institution keeps the difference, if you spend more then your institution must cover the additional cost
- Conference will not count towards Annual Task 3
- Logistics:
  - Submit names to Jen before 20 Feb 2018
  - First come first served, initially one per center, if all grants are not taken backups will be selected
  - Jen will coordinate conference registration so a group discount code is applied you will receive the invoice
  - Must provide confirmation of actual attendance (attendee badge, talk to Jen at conf.)
  - Attend radiation preparedness sessions

# 2018 Exercises

- Full Scale Exercise (\$50,000 grant)
  - Philadelphia RITN FSE (Children's Hospital of Philadelphia, Univ of PA Medical Center)
- Functional Exercises (\$25,000 grant)
  - Texas Children's Hospital
  - Children's Mercy Hospital
- Drill (\$10,000 grant)
  - Tucson NDMS Exercise (Banner Health)
- Regional Table Top Exercises (\$5,000 grant)
  - Allegheny Health (West Penn)
  - Ohio University Hospital
  - TBD-if interested @ [RITN@nmdp.org](mailto:RITN@nmdp.org)
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# 2018 Tasks (Oct 1, 2017-Aug 31, 2018)

## 1. Administrative

- a) SOP update, contact update, GETS test, HCS test, satellite phone, IRB consents

## 2. Exercise

- a) Primary choice will be web based on 5 scheduled dates
- b) Can coordinate and host own if prefer

## 3. Training

- a) Options: 20 x BRT/RSC/CDC-Rad Basics, pre-approved staff to REAC/TS/Conf/Exercise, Grandrounds, Overview to external preparedness group, Host REAC/TS or AHLS
- b) 2<sup>nd</sup> year centers site assessment
- c) 1<sup>st</sup> year RITN centers must complete specified training

**Award of Grant from  
Navy was Received**

**\$8,000**

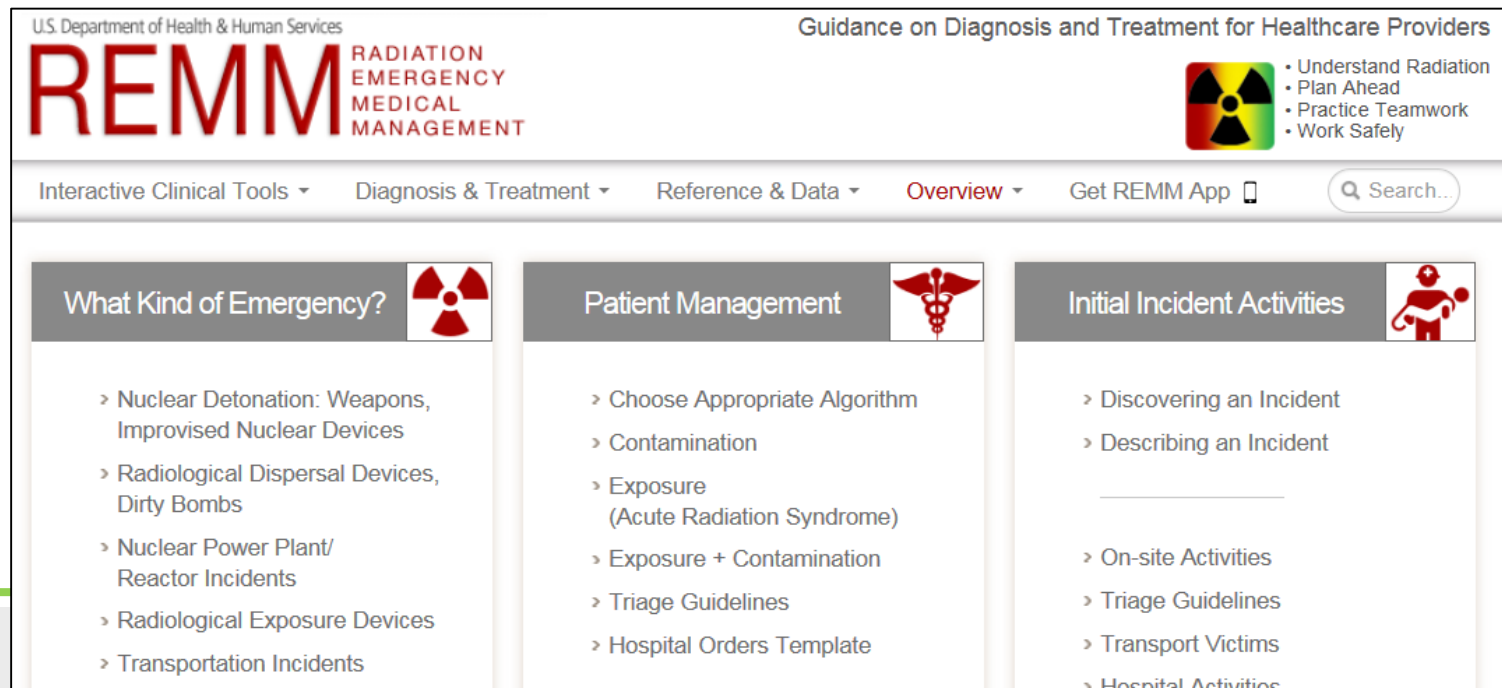
# 2018 Tasks What is New

- RITN will be testing General Contact numbers
- Task 3 Training
  - Changes to Option E: now expands from only physician or advanced practitioner to include RITN staff
    - Any RITN staff can attend training or conference and share knowledge gained with other staff in formal presentation
    - Presentation draft must be sent to RITN for review
  - Option I - submit idea for approval
  - Option F change:
    - Second year centers will conduct Site Assessment as Task 3



# Resources

[www.RITN.net](http://www.RITN.net)



[www.REMM.NLM.gov](http://www.REMM.NLM.gov)



# Partners Are Critical to Our Success

## Partners



# Guest Speaker

- Bill Pook, MEP
- Bill, served in the US Air Force for 40 years and was an NBC (Nuclear Biological & Chemical) warfare defense instructor for 18 years.
- Since 1998 he has been the Director of Emergency Management for Region 5/6 in eastern Nebraska and is the primary Offsite Response Organization (ORO) for the Fort Calhoun Nuclear Power Station.
- Bill is a Master Exercise Practitioner (MEP). He attended University of Wisconsin and the Senior REP program at the Naval Post-Graduate School.
- Bill instructs the Advanced Radiological class at the Center for Domestic Preparedness (CDP) and is a member of National Alliance For Radiation Readiness (NARR)

# NUCLEAR POWER PLANT EMERGENCY PLANNING

William (Bill) Pook, MEP

Region 5/6 Emergency Management /Homeland  
Security

NARR- National Alliance for Radiation Readiness

International Association of Emergency Managers (IAEM)

ORO/Fort Calhoun Nuclear "Storage" Facility

Center for Domestic Preparedness: Advance Radiological  
Incident Operations

- ▶ There are 61 commercially operating nuclear power plants with 99 nuclear reactors in 30 states in the United States.
- ▶ There is only 1 NPP own by public power (Cooper Station- Nebraska Public Power District)
- ▶ The R. E. Ginna Nuclear Power Plant in New York is the smallest nuclear plant, and it has one reactor with a net summer electricity generating capacity at 508 MW.
- ▶ The newest nuclear reactor to enter service, Watts Bar Unit 2 with 1,150 MW net summer electricity generating capacity, began commercial operation in October 2016.
- ▶ Four new nuclear reactors are actively under construction: Vogtle Units 3 and 4 in Georgia and Virgil C. Summer Units 2 and 3 in South Carolina.

## NUCLEAR POWER PLANTS IN THE UNITED STATES. (NOVEMBER 8, 2016)





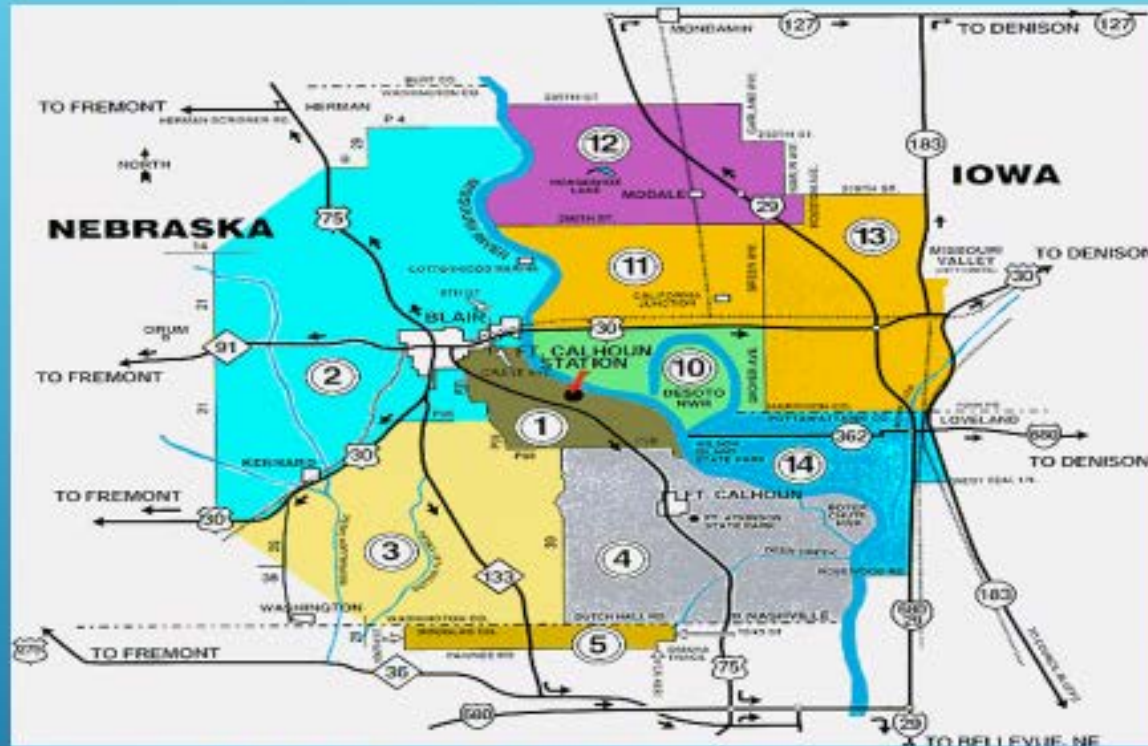
**Nuclear Power Plants**



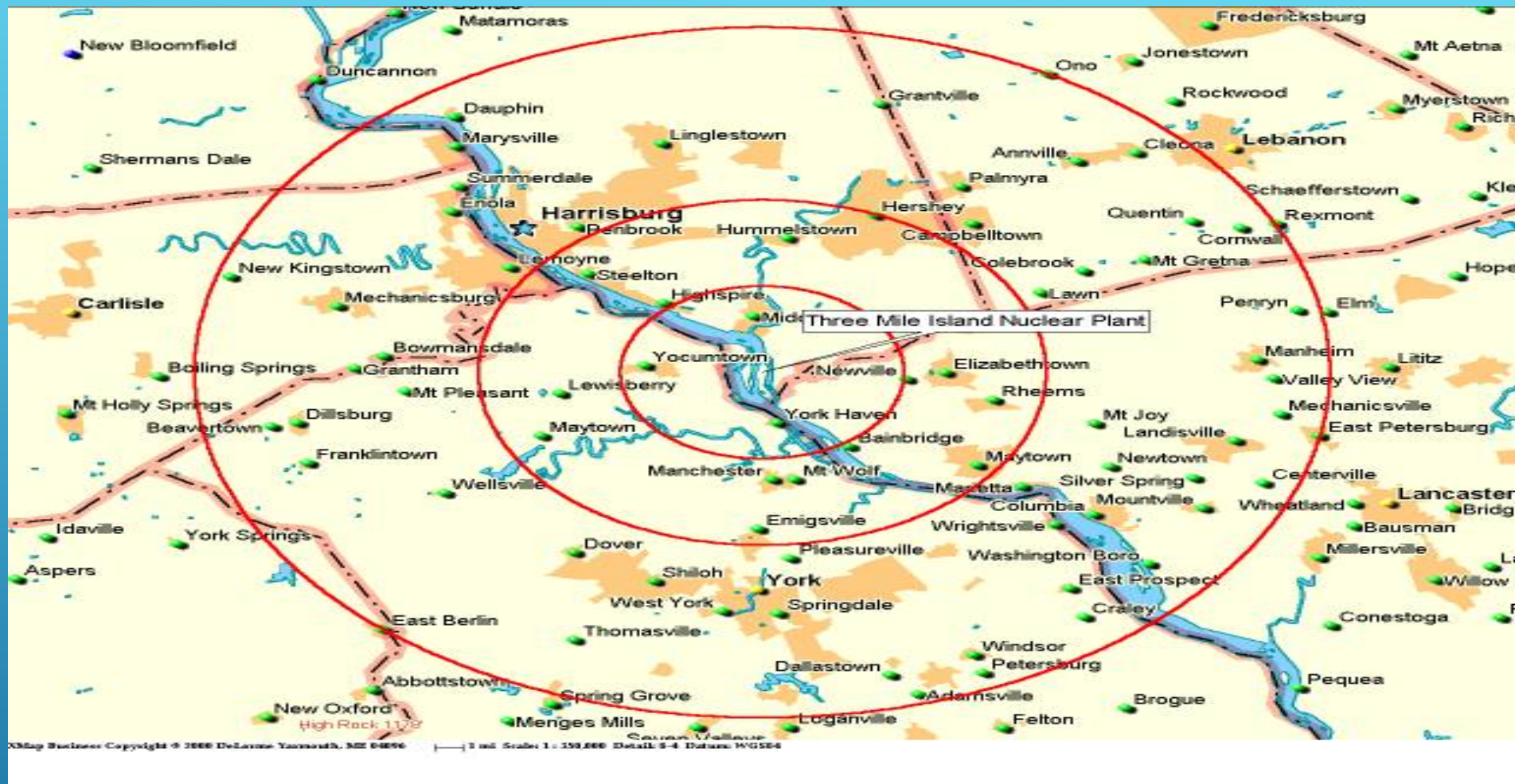
**States with Nuclear Power**







EACH NUCLEAR POWER PLANT IS  
SURROUNDED BY A 10-MILE EMERGENCY  
PLANNING ZONE (EPZ)



2 MILES    10 MILE PLUME    50 MILE INGESTION

# THE 10-MILE EPZ'S VARY IN POPULATION

Fort Calhoun	20,000	2 Reception & Care Centers
Massachusetts	252,200	3 over-lapping EPZ's
Three Mile Island	226,034	11 Reception and Care Centers





# FEDERAL AUTHORITY & RULES FOR R&CC

10 CFR- NRC Regulations

44 CFR Part 350- Federal Emergency Management

NUREG -0654/FEMA-REP-1

REP Program Manual

State and local Statutes/Acts ( State and Local Plans)

Deeply rooted in case law

# MANDATORY TRAINING AND EXERCISES

Quarterly Drills (mostly communications based)

Biannual Functional Exercise- Plant-States-Locals

Biannual FEMA Evaluated Functional Exercise with a Dress Rehearsal

50 Mile Ingestion tested every 8 years

Hostile Action/Terrorism tested every 8 years

Offsite annual documented responder training

..... Schools, bus drivers, Law, Fire, EMS, EOC, Elected Officials, emergency workers, monitors, RSO, communications, PIO.....

Annual Letter of Assurance to FEMA from State/locals annually

# TOOLS FOR THE ORO COMMUNITY

## Radiological Assessment System for Consequence Analysis – RASCAL

The RASCAL code is a tool used by the Protective Measures Team in the U.S. Nuclear Regulatory Commission's (NRC's) Operations Center for making independent of the Plant dose and consequence projections during radiological incidents and emergencies.

## RadResponder

RadResponder is flexible architecture enables organizations to rapidly and securely record, share and aggregate large quantities of data while managing their equipment, personnel, interagency partnerships, and multijurisdictional event space.





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REGION 5/6 EMA

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Feel free to contact me with any questions for radiological training and exercise development.