SÉMINAIRE INTERNATIONAL POST-ACCIDENTEL NUCLEAIRE PROGRAMME FRANÇAIS « CODIRPA » ET TRAVAUX INTERNATIONAUX

Paris, 6 et 7 décembre 2007





Session introductive

Travaux nationaux pour l'élaboration d'une doctrine post-accidentelle

Post Accident Management Strategy and Capabilities

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National Nuclear Security Administration Etats-Unis



CODIRPA SEMINAR



U. S. Department of Energy Post Accident Management Strategy and Capabilities

Vincent McClelland
Director, Office of International Emergency
Management and Cooperation
December 6, 2007



Office Of Emergency Operations



MISSION

Administer and direct the emergency response programs that provide the capability to respond to and mitigate a nuclear or radiological incident or emergency within the U.S. and abroad.

Issue emergency management policy, procedures, guidance and training along with overseeing the implementation of the Department's Emergency Management System.





A Radiological or Nuclear incident can range from ...



... a lost medical isotope to a thermonuclear weapon

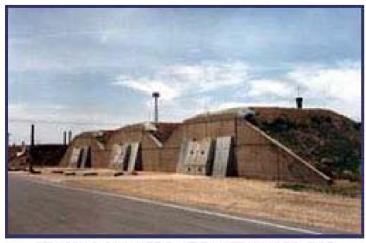


Office Of Emergency Operations

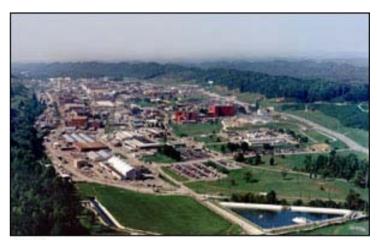


Responsible for implementing and coordinating emergency management policy, preparedness, and response activities within the NNSA, including:

- Support NNSA field and contractor implementation of DOE and NNSA emergency management policy.
- Provide Oversight of NNSA Site Offices.



STAGING BUNKERS AT PANTEX USED FOR TEMPORARY STAGING OF NUCLEAR WEAPONS



Y-12



Authorities



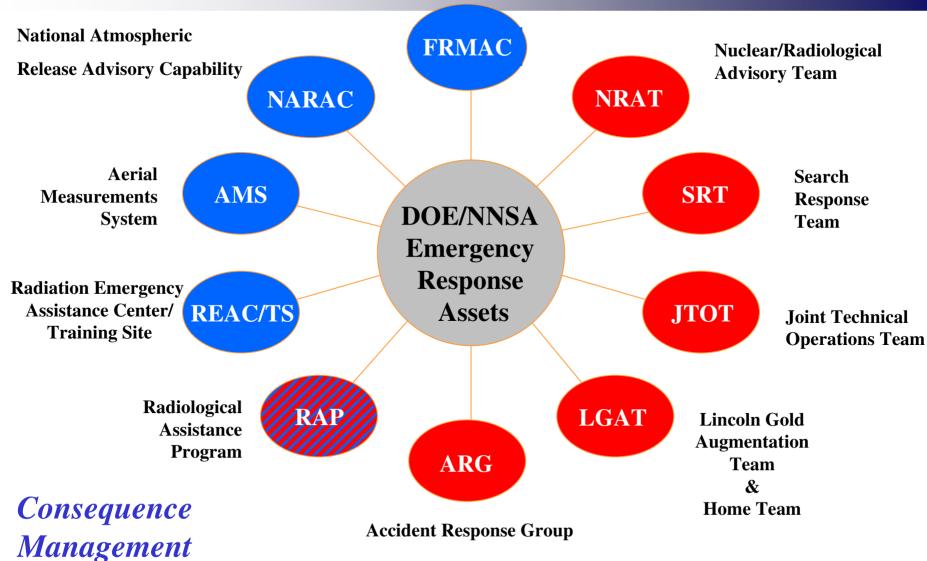
- Atomic Energy Act
- Executive Order 12656
- National Response Plan
- Presidential Decision Directives 39 & 62
- NSPDs
- HSPDs



Federal Radiological Monitoring Assessment Center







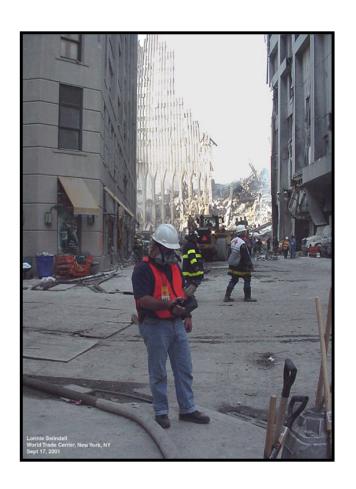


Crisis Response-Radiological Assistance Program (RAP) Capabilities



Mission – Radiation, Detection, Maritime and Consequence Management events DOE/NNSA First Responders

- Teams located across the country
- Deploys in 2 4 hours





Consequence Management



Federal Radiological Monitoring and Assessment Center (FRMAC)

- Coordinates federal off-site radiological monitoring and assessment activities
- Emergency Phase 32 person team, deploys in 4 hours
- Intermediate Phase 32 extra team members, deploys in 12-hours
- Characterization Phase additional personnel, as needed





FRMAC Field Measurement and Sampling







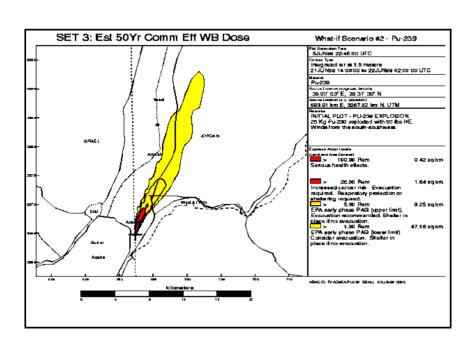


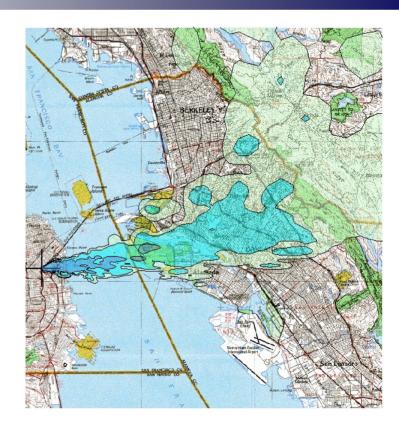
Consequence Management -- National Atmospheric Release Advisory Capability



Mission – Provide plume predictions for early phase decisions and long-term consequences predictions

- Initial models provided in 15 minutes via the internet
- Number of team members 20.





HYPOTHETICAL



Consequence Management - - Aerial Measuring System (AMS)

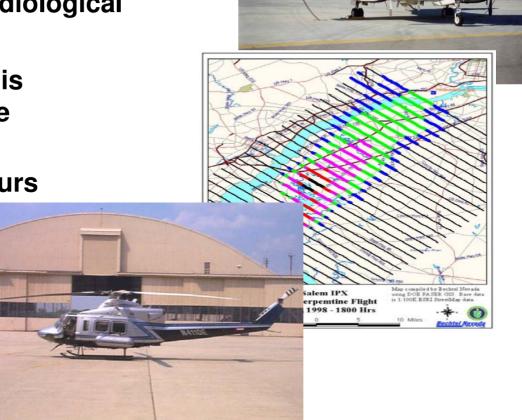


Mission – Provides radiological detection capability mounted on helicopters and fixed wing aircraft to measure ground disposition of radiation in radiological emergencies

 Aircraft located at Nellis and Andrews Air Force Base

Responds in 4 to 6-hours

40 team members





Consequence Management – Radiation Emergency Assistance Center / Training Site (REAC/TS)



Mission – Provide medical response, advice, and consultation for rapid assessment and treatment of high-dose radiation cases

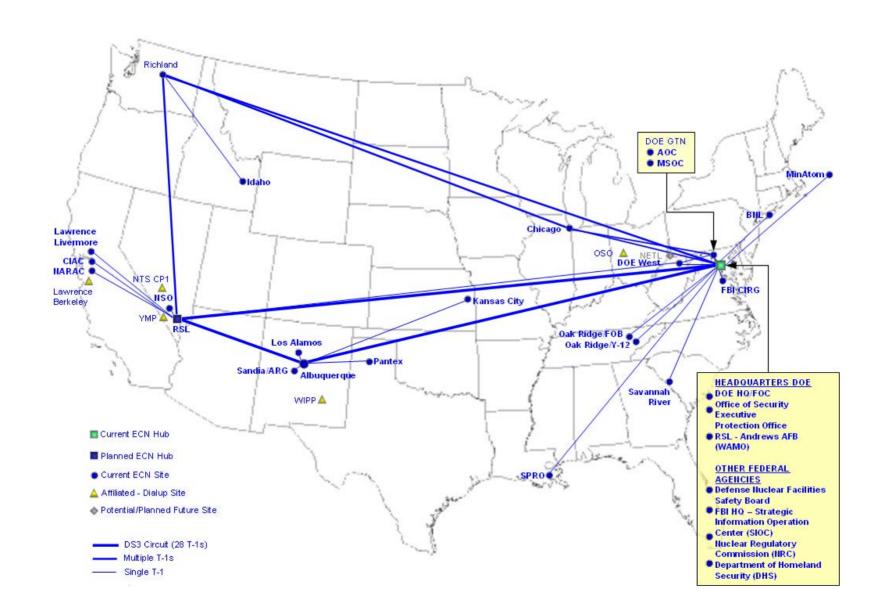
- 24/7 capability
- Staffing -- 14
- Assistance to Federal, state, local governments as well as the IAEA, foreign governments and private physicians
- Provides training programs for health professionals
- Maintains "Radiation Accident Registry System"





Emergency Communications Network (ECN) configuration







Summary



DOE stands ready with versatile emergency response teams that are:

- Highly motivated, trained and equipped
- Nuclear weapons experts resourced from the National Laboratories
- Rapidly configurable to any radiological emergency

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