



Emergency Management Concepts, Existing Guidance, and Changes

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Background

- ▶ Emergency Management is last line of defense – have to consider when safety controls fail
- ▶ Longstanding consideration and analysis of “beyond design basis”
- ▶ Since 1991, Emergency Planning Hazards Assessments have analyzed a spectrum of events
 - Low consequence/High probability
 - High consequence/Low probability
- ▶ Have not had a “firm” upper bound

Background

- ▶ Emergency management programs are “commensurate with hazards”
 - One size does not fit all
 - “Tailor” requirements to specific hazards
- ▶ Emergency management is “all hazard”
 - 1991 – chemical hazards
 - 1995 – non-hazardous material situations
 - 2005 – biological hazards

Current Requirements

- ▶ DOE O 151.1C
 - Supplemented by DOE G 151.1-series guides
- ▶ Proven to be a durable framework
 - Post-9/11, only one requirement added specifically related to lessons from that event
 - Compatible with
 - National Response Framework (NRF)
 - National Incident Management System (NIMS)
 - NIMS Unified Command

Post-Fukushima

- ▶ Were previously considering changes to requirements/guidance
 - Working with DOE/NNSA and contractor emergency management personnel
- ▶ Have solicited comments on 2 post-Fukushima drafts
 - 12/19/2011
 - 2/24/2012

Emergency Management Changes

- ▶ Through requirements/guidance, changes will address
 - Planning for severe events
 - Working with safety & facility operations staff
 - Identify safety systems that maintain control of hazardous materials
 - Develop “walk away” procedures that bring facility/operation to safe shutdown
 - Identify systems critical to emergency response
 - Develop compensatory measures
 - Regardless of how those critical systems fail
 - That are most effective AND cost effective

Emergency Management Changes

- ▶ Address simultaneous events at multiple facilities
 - DOE O 151.1C can be read as being facility-focused
 - Need to strengthen site-wide considerations
- ▶ Address when support services are not available
- ▶ Address coordination between facility, site & community plans
- ▶ Address use of drills & exercises to maintain awareness & support continuous improvement for severe events

Emergency Management Changes

- ▶ Ensure changes made in safety basis regarding BDBE flow into emergency management
- ▶ Ensure consistency in safety and emergency management requirements and guidance
- ▶ Improve coordination between emergency management, security & continuity of operations programs