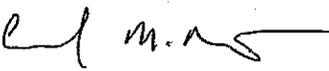
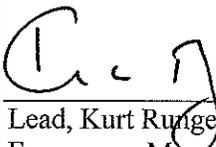


		Number: EA CRAD 33-03 Revision: 0 Effective Date: October 18, 2016
2016 Emergency Management Program Review Pantex Plant Criteria and Review Approach Document		
Authorization and Approval	 Director, Office of Emergency Management Assessments Date: 10/18/16	 Lead, Kurt Runge Emergency Management Date: 10/18/16

1.0 PURPOSE

The mission of the U.S. Department of Energy (DOE) Office of Environment, Safety and Health Assessments (EA-30) is to assess the effectiveness of safety and emergency management systems and practices used by line and contractor organizations and to provide clear, concise, rigorous, and independent evaluation reports of performance in protecting workers, the public, and the environment from the hazards associated with DOE activities.

In addition to the general independent oversight requirements and responsibilities specified in DOE Order 227.1A, *Independent Oversight Program*, this criteria and review approach document (CRAD), in part, fulfills the responsibility assigned to EA in DOE Order 151.1C, *Comprehensive Emergency Management System*, to provide independent oversight of the Comprehensive Emergency Management System.

The focus of this CRAD is on evaluating the Pantex Plant technical planning basis, exercises program, and emergency plans and procedures. In addition, EA will evaluate associated actions completed as part of the June 16 *Implementation Plan for Defense Nuclear Facilities Safety Board Recommendation 2015-1*. Finally, EA will conduct a sampling of corrective actions for two of the eight findings identified in the April 2015 *Office of Enterprise Assessments Review of the Pantex Plant 2014 Full Participation Exercise*, specifically Findings F-CNS-1 and F-CNS-4.

A key to success is the rigor and comprehensiveness of our process; and, as with any process, we continually strive to improve and provide additional value and insight to field operations. Integral to this is our commitment to enhance our program. We continue to make CRADs available for use by DOE line and contractor assessment personnel in developing effective DOE oversight, contractor self-assessment, and corrective action processes. The current revision of EA's CRADs are available at: <http://www.energy.gov/ea/criteria-and-review-approach-documents>.

2.0 APPLICABILITY

The following CRAD is approved for use by the Office of Emergency Management Assessments (EA-33) at the Pantex Plant.

3.0 FEEDBACK

Comments and suggestions for improvements on this CRAD can be directed to the Director, Office of Environment, Safety and Health Assessments, at (301) 903-5392.

4.0 CRITERIA AND REVIEW APPROACH

OBJECTIVE

Technical Planning Basis: The site analyzes plausible scenarios to determine capabilities needed for an effective emergency response and has a means for determining quickly whether an event results in the loss of a significant quantity of hazardous material. (DOE O 151.1C)

Criteria:

1. The hazards surveys identify the threats from emergency conditions, such as fires, work place accidents, and natural phenomena events. (DOE O 151.1C)
2. The hazardous material screening process identifies specific hazardous material and quantities that require further analysis in an emergency planning hazards assessment (EPHA). (DOE O 151.1C)
3. The EPHAs identify the hazards and consequences from unplanned releases of hazardous materials using accepted assessment techniques. (DOE O 151.1C)
4. The EPHAs identify emergency response capabilities needed to mitigate analyzed events and the size of the emergency planning zone. (DOE O 151.1C)
5. The site uses an accurate and timely method for tracking changes in operations, processes, or accident analyses that involve hazardous materials that allows sufficient time for emergency management personnel to review the EPHA and modify plans and procedures, as necessary. (DOE O 151.1C)
6. Emergency action levels (EALs) exist for the spectrum of potential Operational Emergencies. (DOE O 151.1C)
7. The site develops protective actions and protective action recommendations for identified Operational Emergencies. (DOE O 151.1C)

REVIEW APPROACH

Record Review:

- Documented safety analyses (for facilities of interest)
- Emergency action levels (for facilities of interest)
- Emergency plan
- Emergency planning hazards surveys (for facilities of interest)
- Emergency planning zone documentation
- Emergency planning hazards analysis (for facilities of interest)
- Hazardous material screening process description
- Hazards survey, EPHA, EAL, and protective action development/maintenance procedures
- Closure packages related to Technical Planning Basis for the June 2016 *Implementation Plan for Defense Nuclear Facilities Safety Board Recommendation 2015-1*

Interviews:

- Contractor emergency management hazards analysts
- Contractor emergency management program lead

Observations:

- Walkdowns and review for hazardous material identification, form, location, and inventory controls for facilities of interest

OBJECTIVE

Program Administration: The site establishes and maintains the authorities and resources necessary to plan, develop, implement, and maintain a viable, integrated, and coordinated comprehensive emergency management program. (DOE O 151.1C)

Criteria:

1. The emergency plan documents the emergency management program and describes the provisions for response to an Operational Emergency. (DOE O 151.1C)
2. The Emergency plan implementing procedures describe how emergency plan is implemented. (DOE O 151.1C)
3. Procedures describe the implementation of the separate protective actions of evacuation and sheltering of employees. (DOE O 151.1C)

REVIEW APPROACH

Record Review:

- Emergency plan
- Emergency planning hazards surveys (for facilities of interest)
- EPHAs (for facilities of interest)
- EIPs
- Emergency readiness assurance plan
- Review and approval process descriptions for the emergency plan, and EIPs (DOE and contractor)
- Closure packages related to Plans and Procedures for the June 2016 *Implementation Plan for Defense Nuclear Facilities Safety Board Recommendation 2015-1*

- Corrective action plans and closure packages for the April 2015 *Office of Enterprise Assessments Review of the Pantex Plant 2014 Full Participation Exercise*, specifically Findings F-CNS-1 and F-CNS-4

Interviews:

- Contractor emergency management program lead
- Contractor emergency management plans and procedure lead
- DOE field office emergency management program manager

OBJECTIVE

Exercises: The site validates all elements of an emergency management program using an effective, structured approach and realistic scenarios. (DOE O 151.1C)

Criteria:

1. The site validates all elements of the emergency management program over a 5-year period and invites offsite response organizations to participate in site-wide exercises at least once every 3 years. (DOE O 151.1C)
2. The site fully documents each exercise and includes specific objectives, scenario, scope, list of participants, timelines, injects, controller instructions, and evaluation criteria. (DOE O 151.1C)
3. The site exercises its emergency response capability annually and rotates the basis for the exercise among its facilities with EPHAs. (DOE O 151.1C)
4. Site-level emergency response organization elements and resources participate in a minimum of one exercise annually. (DOE O 151.1C)
5. The site evaluates its exercises and uses a critique process that gathers and documents observations of the participants. (DOE O 151.1C)
6. The site completes exercise after-action reports within 30 working days. (DOE O 151.1C)

REVIEW APPROACH

Record Review:

- Emergency plan
- ERAP
- Exercise after-action reports for the last five calendar years
- Exercise packages for the last five calendar years
- Corrective action plans for exercise deficiencies and findings for the past two calendar years.
- Exercise program description/manual
- 5-year exercise schedule
- Closure packages related to the Exercises Program for the June 2016 *Implementation Plan for Defense Nuclear Facilities Safety Board Recommendation 2015-1*

Interviews:

- Contractor emergency management exercises lead
- Contractor emergency management program lead
- DOE field office emergency management program manager