



# **Quality Assurance Briefing**

## **Defense Nuclear Facilities**

### **Safety Board**

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# TOPICS



- QA Functions in HSS
- QA Effectiveness Survey
- QA in Design and Construction Activities
- Safety Software QA
- Suspect/Counterfeit/Defective Items
- CAMP
- Summary



# QA Functions in HSS



- Quality Assurance functions, split between HSS and MA, are now combined into HSS
- Director, Office of Corporate Safety Analysis is corporate QA lead
- Director, Office of Nuclear Safety and Environment is responsible for QA directives



# QA Effectiveness Survey FY-2007



- Writing team established (HSS, EM, SC, NNSA, NE)
- Provide FY-2007 report guidance to the Departmental Elements – May 15<sup>th</sup>
- Focus areas proposed for the FY-2007 report:
  - QA Program Status
  - Flow down of QA Requirements
  - Training & Qualifications
  - Assessments
  - Software Quality Assurance
  - Suspect/Counterfeit and Defective Items
  - QA in design and construction



# QA in Design & Construction Activities



- **Field and Line Management Responsibility**
  - Ensure QA clause in contracts
  - Oversee Implementation of QA requirements
- **HSS Responsibility**
  - Advise Dep Sec on ES&H matters as a participant on the Energy Systems Acquisition Advisory Board
  - Evaluate Cross-Cutting Technical Issues
  - Provide Technical Assistance to Field
- **HSS is evaluating issue to identify potential means to support complex-wide improvement**
  - Develop Directives and Standards
  - QA Effectiveness Survey



# Safety Software Quality Assurance



- Central Registry
  - IMBA (DOE Edition) added
  - Hotspot evaluation concluding
- Closing 2002-1 Recommendation
  - Plan and schedule to upgrade the original 6 toolbox codes
  - CFAST upgrade for LPF in progress
  - Additional upgrades as presented to EM and NNSA
- DOE-STD-1172, SQA Functional Area Qualification Standard being revised



# Suspect/Counterfeit/ Defective Items



- HSS is committed to the DOE Suspect/Counterfeit/Defective Item (SCDI) Process
- FY-2007 SCDI planned activities
  - Consolidate SCDI and Lessons Learned data bases
  - Strengthen training program to ensure learning objectives and training are aligned
  - Develop CBT and combine with hands on training
  - Validate effectiveness of SCDI follow-up



# DOE Notification



DOE Notification	Significance Level	Required Action	HSS SCDI Follow-up
<b>Special Operations Reports</b>	Issued by Deputy Secretary to initiate management actions in response to significant departmental safety or health concerns	Immediate action and feedback	Review of corrective action plans
<b>ES&amp;H Alert</b>	Advises DOE & contractors to initiate immediate action on potentially significant safety or health issues	Requires positive and negative responses. Implementation feedback required to PSOs and HS-1	Yes Through PSO POCs
<b>ES&amp;H Bulletin</b>	Issued to DOE & contractors to share information and recommend actions on potential safety or health issues.	Implementation/applicability feedback required to PSOs and HS-1	Monitor ORPS
<b>ES&amp;H Advisory</b>	Issued to DOE & contractors to provide information to the DOE Complex on potentially significant safety or health issues.	No response required	Monitor ORPS
<b>Data Collection Sheets-Push emails</b>	Awareness information including event notification or suspect/counterfeit or defective item notification.	No action or feedback is required beyond internal dissemination	Monitor ORPS





# CAMP Effectiveness Reviews



- Effectiveness reviews required within 180 days after corrective action plan closure
- Effectiveness reviews tracked for:
  - ES&H and Emergency Management findings identified by HSS independent oversight
  - Type A accident investigations
  - Aviation safety findings identified by MA
- Review reports and conduct analyses; share results with CAM Team Members



# Summary



- QA function consolidated in HSS
- QA Effectiveness Survey for FY-2007
- Address QA in design and construction
- Close out 2002-1 Recommendation
- Conduct SCDI training & validate program effectiveness of SCDI follow-up
- Analyze CAMP Effectiveness Reviews