



U.S. DEPARTMENT OF
ENERGY

*Presentation to the SRS CAB
Nuclear Materials Committee*

**H-Canyon DOE Standard 3009
DSA Upgrade**

**Norm Garrett
H-Canyon Facility Engineer
DOE-SR/AMNMSP/NMED**



EM *Environmental Management*
safety ♦ performance ♦ cleanup ♦ closure

Acronyms

- **AMNMSP – Assistant Manager Nuclear Materials Stabilization Project**
- **DSA – Documented Safety Analysis**
- **DNFSB – Defense Nuclear Facilities Safety Board**
- **EM – DOE Office of Environmental Management**
- **GAO – Government Accountability Office**
- **NMED – Nuclear Materials Engineering Division**
- **SNF – Spent Nuclear Fuel**
- **SRNS – Savannah River Nuclear Solutions**
- **SRS – Savannah River Site**



Purpose

- **As requested by SRS CAB Recommendation #259 -- provide an update on H-Canyon's Documented Safety Analysis Upgrade status.**



Background

- **GAO performed an audit of SRS and identified several concerns which included the safety basis documentation for H-Canyon.**
- **GAO Rec. 3: Direct SRS develop a plan to ensure adequate technical staff are available to complete required safety analyses to support scheduled H-Canyon operations.**



Background

DOE Response:

- **Directed the SRS contractor, on July 2, 2008, to upgrade H Canyon safety analysis to be consistent with DOE-STD-3009 format and content to support H Canyon operating schedule.**
- **EM-60, Deputy Assistant Secretary for Safety Management and Operations, will follow the progress in the preparation, review, and approval of the safety documentation upgrade to ensure completion to support SNF processing in FY2010.**



DSA Upgrade

- **Current DOE Status:**
 - **SRNS submitted a DOE-STD-3009 DSA to DOE on March 26, 2009.**
 - **DOE assembled a review team of 25 scientists and engineers to review the document.**
 - **EM-HQ assigned two engineers to perform an independent review.**
 - **DNFSB review.**



DSA Upgrade

- **DOE Review started with the new Hazards Analysis and Accident Calculations.**
- **DOE performed an in-depth review of the accident analysis and the control sets developed to prevent and mitigate the accidents.**
- **All predicted potential accidents which have a dose effect off-site have been prevented or mitigated by application of controls to below evaluation guidelines.**



DSA Upgrade

- **Formal comments will be provided to SRNS by September 18, 2009.**
- **SRNS will review comments and formulate their response to the comments.**
- **SRNS will resubmit the documents for further review after the comments have been addressed.**



DSA Upgrade

- **The upgrade effort identified a number of upgrades to enhance H-Canyon's safety posture.**
- **The DOE review effort identified a number of comments to enhance H-Canyon's DSA upgrade.**



DSA Upgrade

- **SRS HAS NOT, NOR WILL NOT, PROCESS ANY MATERIAL WITHOUT AN ADEQUATE SAFETY BASIS.**

