



DNFSB

Area of Focus: Safety-in-Design

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Background

- September 29, 2006: House Conference Report 109-702 on the National Defense Authorization Act for Fiscal Year 2007 (H.R. 5122) released and approved.
- Section 3201 directed the Board to provide quarterly reports on the status of significant unresolved technical differences between the Board and DOE concerning design and construction of DOE's defense nuclear facilities.
- Quarterly Reports are required until a joint Board/DOE report is issued.



Actions Under Way

- Public Meetings: December 7, 2005; July 19, 2006;
March 22, 2007
- Joint DOE/Board Report to Congress: July 2007
Improving the Identification and Resolution of Safety Issues during the Design and Construction of DOE Defense Nuclear Facilities
- Quarterly Board Reports to Congress: February 15, 2007;
June 19, 2007



Actions Under Way (2)

- Board issuing “Project Letters” early in design process and updating them, as necessary, throughout project life cycles.
 - January 24, 2007: INL – Integrated Waste Treatment Unit
 - January 29, 2007: SRS – Container Surv & Storage Capability
 - June 1, 2007: SRS – Salt Waste Processing Facility
 - August 9, 2007: Y-12 – Uranium Processing Facility
- Board and DOE (staffs) conducting periodic joint reviews on the status of open Board issues.



Quarterly Report: Issues

SITE	FACILITY	TOT PROJ COST (\$M)	STATUS			ISSUES (See Text, Section 4)
			Critical Decision Approved	Design Completion	Construction Completion	
LANL	Chemistry and Metallurgy Research Replacement Project	975	CD-1	70% of preliminary design 30% of final design	Some ground work (Operational 2014)	<ol style="list-style-type: none"> 1. Design-build — acquisition strategy — resolved (2) 2. Site characterization and seismic design 3. Safety-significant — active ventilation — system resolved (2) 4. Safety-class fire suppression system 5. Safety-class and safety-significant container design



Actions Under Way (3)

- Board and DOE are demonstrating Safety-in-Design requirements on two case studies:
 - Uranium Processing Facility
 - Integrated Waste Treatment Unit
- Board and DOE are exploring need for additional changes in DOE's critical decision process.



Future Actions

- DOE is implementing DOE Order 413.3A.
- DOE is implementing DOE-STD-1189.
- DOE is developing 18 guides to supplement DOE Order 413.3A.



Your Actions

- Understand the issues in the Quarterly Reports.
- Push for resolution.