



### Why Revise the Order:

- Primarily, Root Cause Analysis (RCA) and Corrective Action Plan (CAP) Initiatives
- Deputy Secretary Project Management Policies
- Solutions to Government Accountability Office (GAO)
   and Office of Management and Budget (OMB) criticisms
- Congressional Requirements
- Improvements to contract and project management

### Why Revise the Order?



### **Order Review Committee**

#### DOE

- M. Hickman (NNSA) co-chair
- D. Lehman (SC)
- J. Eschenberg (EM)
- B. Berkowitz (OCFO)
- P. Bosco (OECM)

#### **Contractors**

- J. Krupnick (LBNL) co-chair
- J. Smith (ORNL)
- M. Sueksdorf (LLNL)
- R. Jones (Richland)

#### Support Staff

- K. Chao (SC)
- J. Glascock (OECM)

A. Gursahani (LBNL)



### **Project Success:**

### (For "Capital Asset Projects")

 Project completed within the ORIGINAL approved scope baseline, and within 110% of the ORIGINAL approved cost baseline at project completion (Critical Decision-4, (CD-4)), unless otherwise impacted by a directed change.

#### Portfolio Success:

 Ninety percent (90%) of all projects meet project success criteria.

### **Project Success**



### CD-2\* → Commitment

- Scope
- Minimum Key Performance Parameters
- Total Project Cost
- CD-4 Date (Month/Year)
- Signed by Acquisition Executive

### **CD-4**\* → Auditable

- Scope Accomplished
- Key Performance Parameters Met
- Total Project Cost
- Completion Date (Month/Year)
- Signed by Acquisition Executive

\*CD-4 - Approve Project Completion



If a tree falls in the forest and no one is there to hear it, does it make a sound?

### **Documenting Project Success**

TEMPLATES ONLINE & OFCM REVIEW DRAFT MEMOS

<sup>\*</sup>CD-2 - Approve Performance Baseline

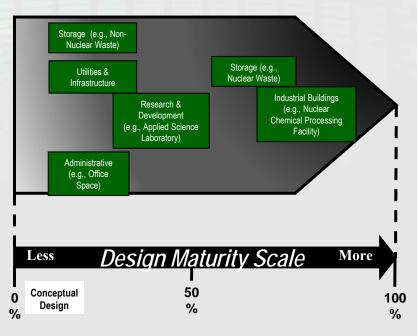


- Introduced new exemptions
- Matured front-end planning
- Clarified project size and structure; program versus project management
- Increased thresholds bolstered responsibilities
- Transformed commitment to funding, budgeting
- Increased project reviews
- Enhanced management and oversight

DOE 0 413.3B - PROJECT MANAGEMENT FOR CAPITAL ASSET PROJECTS

#### FRONT-END PLANNING

- DOE O 413.3B requires:
- Design sufficiently mature prior to
   Critical Decision (CD-2) see figure
- Enhanced External Independent
   Review procedures (projects >\$100M);
   incorporated industry standard practice
  - Project Definition Rating Index
  - Technology Readiness Assessment and Technology Maturation Plan
  - GAO's 12-step cost estimating process
- Nuclear Facilities: Code of Record



# Significant Improvements

FRONT-END PLANNING

#### PROJECT SIZE AND STRUCTURE

#### DOE O 413.3B requires:

- Decision to break up large projects made at CD-1 (Alternative Selection); document
- Each smaller project must have its own distinct performance baseline
- Distinguished program ("large project") and project management
- Useable segments for intended purpose...reduce risk and focus scope, funding and span of control
- Collectively support one mission need; one project data sheet for full cost visibility

# Significant Improvements

PROJECT SIZE AND STRUCTURE

#### PROJECT SIZE AND STRUCTURE

#### Multiple projects on one Project Data Sheet (PDS) (App C, Sec 22.b.)

- Projects meet the same mission need and provide full cost visibility
- Independent Cost Estimate (ICE) possible at CD-1 for entire program

	Construction Cost (\$M)						
	CD-0 or CD-1 (Cost Range - \$M)	TPC (\$M)	FY11	FY12	FY13	FY14	FY15
Project A	-	40	-	-	40	-	-
Project B	•	80	-	-	10	50	20
Project C	100-300	-	-	-	*	100	150
Project D	600-1000	-	-	-	-	25	150
TOTAL	750-1500	-	0	0	50	175	320

Example shows an initial budget request for construction Projects A & B : Obtained CD-2 (Performance Baseline) approval Projects C & D: Progressing towards CD-2 approval.

# **Significant Improvements**

PROJECT SIZE AND STRUCTURE



- Applies to Projects \$50M (vice \$20M) or Greater
  - All Projects \$10M or Greater Report in PARS II (Project Assessment and Reporting System)
  - Submit CD & Baseline Change Proposal (BCP)
     Documents (or Equiv.) to OECM
- Before Memorial Day:
  - Reaching a new Critical Decision (CD) -- Use 413.3A
- After Memorial Day: Comply with DOE Order 413.3B

THRESHOLDS & APPLICABLITY

#### **INCREASED THRESHOLDS**

#### **Performance Baseline Deviations**

- Original TPC (Total Project Cost) Increase of \$100M or 50%, (lesser of)
- Change in Scope/Performance or Project Exec. Plan (PEP)
- No Schedule Trip-wire

#### EVMS (Earned Value Management System) Certifications

- Greater than \$100M OECM Certifies
- \$50M to \$100M Project Management Support Office (PMSO) Certifies
- \$20M to \$50M Contractor Self-Certifies

# Significant Improvements

THRESHOLDS & APPLICABLITY

	DOE C	) 413.3A	DOE O 413.3B	
Critical Decision Authority	Total Project Cost Thresholds	Life Cycle Clean-up Project Cost Thresholds	Total Project Cost Threshold	
Secretarial Acquisition Executive	≥ \$750M  No Delegation Authority (or any project on an exception basis)	≥ \$1B  Delegation authority to  Program Secretarial Office on an exception basis	≥ \$750M  Further Delegation is allowed.  (or any project on an exception basis)	
Under Secretaries	≥\$100M and <\$750M  Delegation authority to  PSO for projects <\$400M	Not Applicable	≥\$100M and <\$750M  Further Delegation is allowed.	
Program Secretarial Officer (PSO)	≥\$20M and <\$100M  Delegation authority to  PM. CD-0 may not be delegated below the  PSO.	<\$1B Delegation authority to HQ or field Senior Executive Service manager. CD-0 may not be delegated below the PSO.	≥\$50M and <\$100M Further Delegation is allowed.	

# Significant Improvements CRITICAL DECISION (CD) AUTHORITY – BOLSTERED RESPONSIBILITY

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	Under Secretario

#### **DOE O 413.3A**

#### **DOE O 413.3B**

**Total Project Cost Threshold** 

Critical Decision Authority	Total Project Cost Thresholds	Life Cycle Clean-up Project Cost Thresholds		
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#### ≥ \$750M

Further Delegation is allowed. (or any project on an exception basis)

≥\$100M and <\$750M

**Further Delegation is allowed.** 

≥\$50M and <\$100M

Further Delegation is allowed.

# **Significant Improvements**

CRITICAL DECISION (CD) AUTHORITY – BOLSTERED RESPONSIBILITY



- Construction Budget Request Prior to CD-2 (App A, Sec 4.c.(2))
  - If CD-2 (Performance Baseline) approval obtained within one year of OMB budget submission
- Full Funding (App C, Sec 15.a.)
  - Projects (not MIE\*) <\$20M will request all construction funds within the same appropriation year of start
  - Projects < \$50M should request funds within the same appropriation year, if feasible (w/ execution schedule < 2 YRS)</li>

(\* MIE: Major Items of Equipment)

# **Significant Improvements**

**FUNDING STABILITY** 



- Funding Profiles (App C, Sec 5.)
  - Acquisition Execute (AE) must endorse any changes to the approved funding profile that negatively impacts the project
- Reassess CD-1 (Alternative Selection) (App A, Sec 4.b.)
  - If CD-1 cost range grows by 50% as the project proceeds toward CD-2 (Approval of Performance Baseline)

**FUNDING** 



- Cost Reviews (App C, Sec 18.)
  - For projects > \$750M, OECM conducts ICR prior to CD-0
  - For projects > \$100M, OECM must conduct:
    - ✓ Prior to CD-1, ICE and/or ICR (Independent Cost Review)
    - ✓ Prior to CD-2, ICE (Independent Cost Estimate)
    - ✓ Prior to CD-3, ICE (if warranted)
- Staffing Reviews (App C, Sec 7.)
  - Qualified staff (including contractors) must be available
  - Programs must use a methodology to determine the appropriate project team size and required skill sets

REVIEWS

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#### **INCREASED PROJECT REVIEWS**

- Project Peer Reviews (App C, Sec 23.)
  - Conduct peer review for projects ≥ \$100M at least annually
  - More frequent for complex projects or those experiencing performance challenges
  - May supplement or replace Independent Project Reviews (IPRs)
  - Typical Format of Review; Five Part (Tailor Appropriately)
    - 1. Scope Technical
    - 2. Cost, Schedule and Risk
    - 3. Management
    - 4. Environment, Safety, Health, and Quality Assurance
    - 5. Startup and Commissioning

# **Significant Improvements**

**REVIEWS** 



- Augmented project reviews and enhanced staffing
- Project performance data uploaded directly into PARS II (Project Assessment and Reporting System) from contractor's system
- Project status reporting by Federal Project Director (FPD), Program Manager and (OECM)
- OECM central repository and compliance office; retain all critical decision and performance baseline change documents
- Submission of contractor evaluation

**GAO Criteria:** 

 Have the Capacity

(People & Resources)

 Monitor and Independently Validate

# **Significant Improvements**

MANAGEMENT AND OVERSIGHT



- Contract management and project management alignment – "Aligning Success"
  - Contracting Officer more prominent role; member of FPD's integrated project team
  - Senior Procurement Executive now member of Secretarial Acquisition Executive's advisory board
  - More to follow...Contract and Project Management Summit Actions

MANAGEMENT AND OVERSIGHT



- Sound (realistic) performance baselines are essential
- Mature design and technology before CD-2 (Baseline)
- Stable funding is critical It must be Affordable
- Assign Quality Leaders and Team Members: Align Responsibility, Authority and Accountability
- Don't hesitate to look outside the project team for solutions...leverage the Department...Use Peer Reviews

#### PROJECT SUCCESS IS THE KEY!

Management... Management!

Document...Document...

# **Final Thoughts**