

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Idaho**

Site Summary Level: **Idaho National Engineering and Environmental Laboratory**

Project **ID-OIM-104 / INEEL Emergency Response Facilities**

Report Number: **GEN-01b**

Print Date: **3/10/2000**

HQ ID: **0208**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: This project provides for the design, procurement, and construction of a new fire station and fire fighter training facility at the Central Facilities Area (CFA) and a new fire station at Argonne National Laboratory West (ANL-W). The new (CFA) fire station will be a pre-engineered, metal building system. A mezzanine level will be provided to house many of the building utility systems, and will be supported with steel columns and beams, utilizing the main structural frame columns to the extent possible. The new (ANL-W) fire station will consist of administrative offices, equipment maintenance areas, equipment storage, dormitory and ready room facilities, and response vehicle bays. Procurement of initial complement for the (CFA) fire station will include; i.e., standard office furniture, conference room furniture, and dormitory furniture. Baseline Change Proposal (BCP) #SW-99008 provides a new asphalt equipment maintenance, training, and parking pad located at (ANL-W) fire station and completing the mezzanine level located at (CFA) fire station; i.e. uni-sex restroom, kitchen, training, and physical fitness rooms. The CFA Fire Training Facility will provide space for live fire training exercises and a training tower. The structural load-resisting system shall be constructed using noncombustible materials. Space shall also be provided to house the computer controlled fire simulators. Each fire simulator will represent a different fire scenario and fire class. The new fire fighter training facility will include a state-of-the-art computer controlled fire simulation facility and several outdoor fire training areas. The new station and training facility will be located adjacent to the CFA to enhance response time for emergency vehicles to the Idaho Nuclear Technology and Engineering Center (INTEC), Test Reactor Area (TRA), Naval Reactor Facility (NRF) and the Radioactive Waste Management Complex (RWMC). The new site wide fire station at ANL-W will be located inside the ANL-W perimeter fence.

Technical Approach: All DOE facilities are designed and constructed in accordance with applicable Public Laws, Executive Orders, OMB Circulars, Federal Property Management Regulations, and DOE Orders. The total estimated cost of the project includes the cost of measures necessary to assure compliance with Executive Order 12088, "Federal Compliance with Pollution Control Standards"; section 19 of the Occupational Safety and Health Act of 1970, the provisions of Executive Order 12196, and the related Safety and Health provisions for Federal Employees (CFR Title 29, Chapter XVII, Part 1960); and the Architectural Barriers Act, Public Law 90-480, and implementing instruction in 41 CFR 101-19.6. The project will be located in an area not subject to flooding determined in accordance with Executive Order 11988.

The Department of Energy Idaho Operations Office (DOE-ID) shall be responsible for implementation of the project, including selection of principal contractors and approval of specified procurement actions. DOE-ID project management shall be performed by Construction Management, Office of Program Execution, and Office of Infrastructure Management. Administrative and other project support shall be furnished to the project on a matrix basis by the DOE-ID organization.

Lockheed Martin Idaho Technologies Company (LMITCO) shall be the operating contractor responsible for the development of the project's technical requirements, completion of the Architectural and Engineering Design, review and management of the engineering and construction activities, procurement of selected equipment, construction subcontracting, checkout of systems, and maintenance of the completed project. LMITCO project management and construction management shall be performed by the Site Services Organization as required to complete the project in a timely, safe, and cost effective manner.

Project Status in FY 2006:

Dataset Name: **FY 1999 Planning Data**

Date of Dataset: **9/20/1999**

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Construction is scheduled to be complete the 1st quarter of FY 2000, all close-out activities are scheduled to be completed the 2nd quarter FY 2000.

Post-2006 Project Scope:

None. (Annual building maintenance will be completed under the direction of site-wide operations and maintenance.)

Project End State

The INEEL Emergency Response Facilities project will provide fully operational fire stations at CFA and ANL-W and a fire fighter training facility at CFA meeting current codes and standards and support INEEL program mission needs.

Cost Baseline Comments:

The costs are based upon activity based costs and standard industry accepted estimating basis. Project Cost estimates are developed at each phase of the project per the INEEL Cost Estimating Guide. These phases are identified as (1) Conceptual Design, (2) Title I Design, (3) Title II Design; and (4) Approved for Construction (AFC). These estimates may change through time as a part of the normal design evolution, further definition of requirements needed to support the existing mission, and project uncertainties based on items such as the stage of design complexity (e.g., conceptual versus AFC), award prices, approved baseline plans, and subsequent changes. At each project phase, a contingency analysis is performed on each estimate to determine the appropriate level of contingency required to perform the project. Cost estimates are prepared to encompass all scope required to ensure this project supports compliance with the FFACO, and the Idaho Settlement Agreement.

The INEL Emergency Response Facilities Project Baseline Summary (PBS) does not reflect the changes to the fixed assets acquisition appropriation methodology where outyear requests are to be approximated in FY 1998 or the new LICP project year start. The PBS does reflect the funding in the required year as planned.

Safety & Health Hazards:

The CFA Fire Station and Fire Training Facilities are currently in the Facility Landlord operation stage which contains the ES&H functions necessary to maintain safe, compliant, and operable buildings in compliance with the operational basis, surveillance's, compensatory measures, and maintenance and calibration of vital system.

The ANL-W Fire Station will enter construction where the principle hazards will involve normal industrial safety hazards related to construction activities. Construction inherently: exposes construction workers to construction site accidents; generates dust; poses risks to the INEEL workers and the public by increased noise exposure; poses risks to the environment by soil disturbances, solid waste disposal, and air emissions. A safety evaluation, as part of the conceptual design effort, was performed on this project. The safety evaluation for this portion of the project requires that all work will be conducted in accordance with established regulations in effect at the INEEL, including the safety and health regulations for construction issued by the Secretary of Labor in Part 1926, Vol. 37 of 29 CFR, No. 243 of the Federal Register, and the Occupational, Safety and Health Act.

Hazards and injuries to operating personnel will be minimized by following the requirements as outlined in the ANL-W Safety, Conduct of Operations, Operation and Maintenance manuals and by using approved procedures for all process operations.

Safety & Health Work Performance:

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Safety is mitigated through incorporation of safety codes and standards in the project design i.e. ANSI, NFPA, NEC, etc.. Representatives from S&H will be involved in the review of the design package to assure adequate safety controls are included in the construction package. Construction subcontractors are required to submit a project safety plan for review and approval prior to start of construction. Construction contracts required daily Plan of Day meetings and safety oversight. In addition weekly industrial safety and industrial hygiene oversight and assessments are required. A Facility Acceptance Review Committee will be established which will include representation from the occupational and industrial safety, tenant, maintenance, project, and program organizations. The committee will define preventative maintenance procedures, operations procedures, and training requirements; verify all safety concerns have been corrected; verify systems have been tested and are ready to be placed in operations; and conduct a facility inspection to verify readiness prior to the facility being occupied and operated.

PBS Comments:

N/A

Baseline Validation Narrative:

The INEEL EM Integration Board (joint senior level DOE-ID and LMITCO management) provided an independent validation of the Project Baseline Summary in respect to "compliance driven" activities, project planning, and cost estimates beginning in Fiscal Year (FY) 1997 through FY 2002. Scope, schedule, cost estimates, and basis of the estimates (including resource requirements) were reviewed and validated by a team consisting of six members.

FY 1998 planning had an additional independent validation by a joint DOE-ID and LMITCO review team. Programmatic objectives, scope of work, milestones, baseline schedule, and baseline costs were analyzed. In addition, the planned scope was reviewed to ensure: (a) consistency with achieving compliance with consent orders, laws, and interagency agreements and (b) addressing safety and health and regulatory requirements.

This project was validated by DOE-ID in April 1992, 1993, 1994, 1995, 1996, and 1997 by the annual construction project validation process. This validation process evaluates the project for readiness to proceed into the Department's budget process, and examines the planning, development, and baseline of the project to ensure that the funds requested are commensurate with the project's anticipated scope and schedule.

General PBS Information

Project Validated?	Yes	Date Validated:	4/1/1997
Has Headquarters reviewed and approved project?	No		
Date Project was Added:	12/1/1997		
Baseline Submission Date:			
FEDPLAN Project?	Yes		

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General PBS Information

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	Y	N	N	N	Y	Y	Y

Project Identification Information

DOE Project Manager: Wayne B. Shigley
DOE Project Manager Phone Number: 208-526-1986
DOE Project Manager Fax Number: 208-526-9150
DOE Project Manager e-mail address: shiglewb@inel.gov
Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS Baseline (current year dollars)	1,495	0	1,495	1,495	2,838		1,223		0	0	0	0	0	0	0	
PBS Baseline (constant 1999 dollars)	1,495	0	1,495	1,495	2,838		1,223		0	0	0	0	0	0	0	
PBS EM Baseline (current year dollars)	1,495	0	1,495	1,495	2,838		1,223		0	0	0	0	0	0	0	
PBS EM Baseline (constant 1999 dollars)	1,495	0	1,495	1,495	2,838		1,223		0	0	0	0	0	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%			2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 2/1/1999

Current Projected End Date of Project: 2/1/1999

Explanation of Project Completion Date Difference (if applicable):

No new BA is requested for this LICP.
The project TCP has not changed.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars): 768 Actual 1997 Cost: 2,838 Actual 1998 Cost: 1,223

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Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars): -3,293 Inflation Adjustment (2.7% to convert 1998 to 1999 dollars): -89
 Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): -3,382

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	-3,382	
Additional Amount to Reconcile (+):	3,382	No new BA is requested for this LICP. The project TCP has not changed.

Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars): **0**

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Project Mission Complete	ID-OIM-04-02		2/1/1999		2/1/1999						
Project Start			1/1/1994								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Project Mission Complete	ID-OIM-04-02				Y						
Project Start				Y							

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