### U.S. DEPARTMENT OF ENERGY CONTRACT AND PROJECT MANAGEMENT ROOT CAUSE ANALYSIS

### **CORRECTIVE ACTION PLAN**



# CORRECTIVE MEASURE 2 CONTRACT AND PROJECT MANAGEMENT STAFFING STUDY SUMMARY REPORT

JULY 2009

In April 2008 the Department of Energy (DOE) published the U.S. Department of Energy Contract and Project Management Root Cause Analysis, and then subsequently published the U.S. Department of Energy Contract and Project Management Root Cause Analysis Corrective Action Plan in July 2008. The root cause analysis identified the most significant challenges impeding the improvement of DOE contract and project management. One of the most significant issues identified was that, in many cases, DOE did not have an adequate number of federal personnel with the appropriate skills to plan, direct and oversee project execution. A summary of the corrective measure addressing this issue is included in Appendix A.

As an integral part of the DOE Corrective Action Plan, the Department established a cross-functional team in March 2008 to specifically address the corrective measure dealing with an inadequate number of federal staff with the appropriate skills. The cross-functional team included representatives from the three major Departmental Program Offices (the National Nuclear Security Administration, the Office of Science, and the Office of Environmental Management) in addition to representatives from Headquarters program support organizations. The primary responsibilities of the team members included: establishing and issuing the staffing study data call; reviewing and evaluating the data responses; developing the staffing algorithm and model; and developing a preliminary list of resource alternatives.

Unlike other federal entities, the Department has never had an agency-wide staffing model, a tool to facilitate personnel staffing decisions in support of project execution oversight. Early on, it was recognized that a prudent course of action is to benchmark federal agencies and professional organizations that had staffing models, learn from those models, and, based on inherent differences, establish a DOE model to be used as a guide that would highlight personnel requirements in support of project oversight. While the results of the model would provide a point estimate, it was recognized that given numerous intangible factors (the quality of the staff, the cohesiveness of the project team, and more), the point estimate would serve as the center of a range (plus or minus 20 percent) of the ideal staffing requirements. This model would help identify personnel deficiencies early on, as well as serve as a tool in support of budget formulation.

The information contained within this document is a summary of the accomplishments to date resulting from the initiatives of the corrective measure team, including conducting an analysis of the federal staffing of current projects, evaluating the staffing approaches undertaken by other federal agencies, developing a workload-based staffing model, applying the model to current projects, estimating current staffing gaps, and identifying preliminary resource alternatives to address resource shortages.

In September 2008, the Department conducted an analysis of 92 DOE projects to determine the level of federal staffing associated with each project. The projects represented work within each of the three major Departmental Program Offices (the National Nuclear Security Administration, the Office of Science, and the Office of Environmental Management). The following project types were evaluated: capital asset line item construction, major item of equipment, decontamination and decommissioning, and environmental remediation. The analysis confirmed the Root Cause Analysis finding. In general, the level of federal staff overseeing DOE projects is small, particularly given the number of unique and complex projects within the Department's portfolio. The analysis also revealed that there is a lack of consistency among and within DOE Program Offices. Specifically, the level of federal staffing and the methodology used to determine project staffing levels differed throughout DOE.

The corrective measure team interviewed personnel and reviewed documentation from other federal agencies including: the Naval Facilities Engineering Command, the United States Army Corps of Engineers, and the General Services Administration Public Building Services. While each agency used a different federal staffing approach for its projects, there were some common characteristics. Despite different missions and executing work using different business models, the common elements included: project size, project type, project complexity, and project difficulty. These agencies each used these project-specific factors, along with other characteristics, to determine their required levels of federal staffing.

Based upon all the information collected from the Department and other federal agencies, the corrective measure team developed a DOE workload-based staffing model. The model incorporates several project characteristics. Collectively, these characteristics derive the recommended staffing levels for specific projects. These characteristics include: the project's annual value of work to be executed, the type of project, the complexity of the project, the manner in which the project is being executed, the project phase, the level of regulatory involvement, the degree of external influence, the uniqueness of the project, and the type of contract used to procure the project's goods and services. The DOE staffing model incorporates each of these characteristics to account for the range of projects executed by the Department.

The corrective measure team applied the model to the 92 DOE projects in the staffing study. Results indicate that the level of DOE federal staffing is low and that the unique nature and characteristics associated with DOE projects are not adequately addressed.

In addition, the team assembled an initial list of resource alternatives to consider when addressing the shortage in federal staff. The list of resource alternatives includes: delaying new project starts for which an adequate number of federal staff are not available; reallocating personnel within one Program Office; reallocating personnel among Program Offices; increasing federal staffing through increased DOE funding; funding federal staffing and oversight from the project budget (i.e., the U.S. Army Corps of Engineers' Model); acquiring federal staffing resources from other federal agencies; transferring work to other federal agencies; augmenting federal staffing levels with support service contractors; and maintaining or increasing reliance on DOE site or field office's prime contractors. Each of the resource alternatives contains both positive and negative attributes. These alternatives are not mutually exclusive and more than one alternative is likely to be exercised to address federal personnel needs across Programs. Further evaluation of resource alternatives is required.

A critical component to evaluating the need for additional federal staff and the most appropriate resource alternative to implement includes establishing clear delineation and separation of roles and responsibilities to be performed by federal and contractor personnel. There are clearly some activities that cannot and should not be delegated to contractors such as approving critical decision documents that comprise the DOE acquisition management process. A more detailed analysis of the roles and responsibilities associated with contract and project management is ongoing. When complete, there should be a clear definition and breakdown of roles and responsibilities most appropriately performed by federal and contractor personnel.

The work of the corrective measure team is just a beginning. While the first version of the model is done, more is left to be completed. The results of this work need to be codified within the Department's directives system. Specifically, a new DOE 413.3 Guide needs to be established. This Guide will highlight the recommended method this new staffing model would use to identify project federal staffing needs. It will also serve as the basis for support of Independent Project Reviews (IPRs) and External Independent Reviews (EIRs). Other tasks include: clarification of contract and project management roles, responsibilities, and accountability; performance of competency assessments (personnel quality checks); and enhancements of training programs. Future refinement of the model must continue as it gets wider use and more is learned. The new model serves as a decision making tool for improved contract and project management and ultimately to improved DOE project execution performance.

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# Chapter 1 Introduction

### 1.1 BACKGROUND

The Department of Energy (DOE) conducted a contract and project management root cause analysis (RCA) between September 2007 and March 2008. The RCA identified and analyzed the difficulties and challenges of planning and managing DOE projects. In April 2008, DOE published the U.S. Department of Energy Contract and Project Management Root Cause Analysis summarizing the most significant issues and underlying causes impeding contract and project management improvement. One of the top 10 key issues impacting DOE project planning and management is the DOE does not have an adequate number of federal contracting and project management personnel with the appropriate skills to plan, direct, and oversee project execution. In addition, an inadequate number or insufficient qualifications of federal personnel was identified as a root cause in 7 of the remaining 9 top issues. The Department's RCA revealed that among other things, increasing the number and improving the qualifications of federal staff is instrumental to improving DOE contract and project management performance.

To remedy the most significant issues and underlying root causes identified in the RCA, the Department developed and published the U.S. Department of Energy Contract and Project Management Root Cause Analysis Corrective Action Plan in July 2008. The focus of the DOE corrective action plan (CAP) was to identify and develop corrective measures that successfully address the deficiencies identified in the RCA to improve contract and project management performance. A total of eight corrective measures were established, including a corrective measure solely dedicated to improving federal staffing levels. The improvement in federal staffing levels corrective measure reads as follows: "Develop and implement a comprehensive federal staffing plan, with an associated resource plan, to recruit, develop, and retain the optimum contract and project management federal workforce."

To implement the federal staffing improvement corrective measure, the Department organized a cross-functional team to develop and implement detailed action plans with milestones. The corrective measure team included representatives from the following DOE organizations: the Office of Engineering and Construction Management, the Office of Science, the Office of Environmental Management, the National Nuclear Security Administration, the Office of the Chief Human Capital Officer, the Office of Procurement and Management Assistance, and the Office of Energy Efficiency and Renewable Energy.

# 1.2 OBJECTIVES

The overall outcome of the federal staffing corrective measure is for the Department to have a fully staffed, right-sized federal contract and project management organization. The development and implementation of a comprehensive federal staffing plan, with an associated resource plan, to recruit, develop, and retain the optimum contract and project management federal workforce requires the following specific objectives:

- ✤ Assess the current federal staffing levels of DOE projects;
- Evaluate the federal staffing of projects in other federal agencies;
- Develop a DOE workload-based federal staffing model;
- ♦ Apply the staffing model to determine DOE federal staffing gaps; and
- Develop resource alternatives to address DOE federal staffing needs.

The corrective measure team incorporated each of the aforementioned objectives into the development and implementation of the approach to improve contract and project management federal staffing levels.

### 1.3 Approach

The approach used by the corrective measure team involved collecting data through document reviews and personnel interviews, analyzing the data, developing a federal project staffing model, applying the staffing model to DOE projects, and establishing alternatives to satisfy the need for additional personnel resources.

The approach included the following specific steps:

Step 1—Assess Current Federal Staffing Levels of DOE Projects. Based on the findings from the Department's contract and project management RCA, and the content of the associated CAP, the corrective measure team assessed the current federal staffing levels of DOE projects. The level of federal staffing was collected by developing and issuing a data call, and receiving project and staffing data on DOE projects from Program Offices.

- Step 2—Evaluate Federal Project Staffing Models in Other Federal Agencies. Data was also gathered on other federal agencies to determine their respective approaches to federal staffing of projects. Corrective measure team members conducted interviews with other federal agency personnel as well as performed document reviews summarizing federal agency methods, policies, and initiatives to address federal project staffing.
- Step 3—Develop a DOE Workload-Based Federal Staffing Model. Based on the data collected from other federal agencies and within DOE, the corrective measure team developed a workload based staffing model to be applied to DOE projects to determine the optimal federal staffing levels.
- Step 4—Apply the Staffing Model to Determine DOE Federal Staffing Shortages. The staffing model will be applied to determine the need for additional DOE federal personnel. The staffing model will continue to be reviewed by the major DOE Program Offices and their respective sites, and it will be updated to incorporate any recommended revisions.
- Step 5—Develop Resource Alternatives to Address the DOE Federal Staffing Shortages. To address the need for additional federal personnel, the corrective measure team will finalize a series of alternatives to be considered and implemented to address federal staffing shortages. The corrective measure team established a preliminary list of resource alternatives.
- Step 6—Implement Select Alternatives, as Appropriate, to Satisfy Personnel Needs. Depending on the specific project and site conditions, location, and situation associated with the need for additional federal staffing, one or more of the alternatives identified will be implemented by the Department to satisfy the need for increased federal personnel.

The contents of this report represent completed activity through the first three steps. The corrective measure team also initiated application of the model to DOE projects and development of preliminary resource alternatives. More work is required in both of these areas. Subsequent Departmental efforts should focus on refinement of the model over time, continued application of the staffing model to DOE projects, determination of federal staffing shortages, and implementation of resource alternatives to address federal staffing needs.

# 2.1 PROJECT STAFFING STUDY DATA CALL

The information contained in the following sections is a summary of the contract and project management data collected from a total of 92 projects in the following DOE Program Offices: the National Nuclear Security Administration (NNSA), the Office of Science (SC), and the Office of Environmental Management (EM). This data was collected through the following means: the development of a data call by the corrective measure team; the submittal of the data call by DOE Headquarters Program Offices to Site and Field Offices; and the completion of the project and staffing data by Headquarters, Site and Field Office personnel. The 92 projects were taken from the Department's July 2008 Monthly Project Status Report. These projects need to comply with the DOE Order 413.3A, have a total estimated project cost greater than \$20 million, and were in various critical decision (CD) phases.

The corrective measure team initiated development of a staffing study data call in August 2008. The purpose of the staffing study data call was to collect DOE project and staffing data to determine current project staffing by various functional areas. The following summarizes the project and staffing data included in the data call.

- Project Data
  - Program Office: Identifies which DOE Headquarters Program Office provides program management and oversight for the specific project.
  - Site or Field Office: Identifies which DOE Site or Field Office is responsible for providing the contract administration and project management for the specific project.
  - > **Project Title**: Identifies the title of the project.
  - Project Type: Identifies the type of project according to one of four categories—capital asset line item construction project, major item of equipment project, decontamination and decommissioning project, or environmental remediation project.

- Project Execution: Identifies the arrangement for procuring and organization responsible executing the project work. One of three methods: DOE direct, management and operating (M&O) contractor, or M&O subcontractor.
- Contract Type: Identifies the type of contract used to procure the majority of the goods and services for the project. One of seven contract types—fixed price (firm, no incentive), fixed price (with economic price adjustment, no incentive), cost reimbursement, incentive (fixed price), incentive (cost reimbursement), indefinite delivery, or time and materials.
- Project Stage: Identifies the latest approved critical decision (CD). One of four stages—CD-0, CD-1, CD-2, or CD-3.
- Estimated Total Project Cost: Identifies the pre CD-2 high end project cost estimate or the post CD-2 total project cost (TPC) depending on the project stage.
- Fiscal Year 2008 Estimated Expenditure: Identifies the estimated expenditures for the project in fiscal year 2008 (FY08).

### **Staffing Data (associated with each project)**

- Functional Area/Critical Skill<sup>1</sup>: Identifies the functional area and associated critical skills that are supporting the project. Each functional area has several critical skills associated with them. The ten functional areas include:
  - contracting, subcontracting and property management;
  - program and project planning, control and management;
  - science, engineering and design support;
  - construction oversight and management;
  - quality assurance;
  - environment, safety and health;
  - finance and administration;
  - safeguards and security;
  - operations oversight; and
  - public affairs and stakeholder relations.

<sup>&</sup>lt;sup>1</sup> Functional areas and critical skills were adopted from NNSA and EM IPT survey initiatives.

- Job Sponsor: Identifies the individual's job sponsor that is supporting the project. One of four choices—DOE employee, support service contractor, site prime contractor, or other federal agency employee.
- Job Series: Identifies the job series for the DOE employee and other federal agency employee (if known). Not applicable to support service contractors and site prime contractors.
- Grade Level: Identifies the grade level of the individual if the job sponsor is a DOE employee. Include the grade level for other federal agency employees (if known).
- Full Time Equivalent Level of Effort by Project Phase: Identifies the level of effort provided or being provided for each stage of the project. Assigned in increments of 10 percent up to 100 percent. May include overtime in 10 percent increments.

Subsequent to completing development of the data call in September 2008, the three major DOE Headquarters Programs Offices issued the data call to their respective Site and Field Offices listing the projects included in this DOE project staffing study. In October 2008, the project and staffing data were completed and returned to the corrective measure team for review and analysis. The following sections summarize the data received from each DOE Program Office, including a summary analysis of preliminary findings.

# 2.2 OFFICE OF SCIENCE

The Department's review and analysis of federal project staffing included 17 SC projects. Of the 17 SC projects reviewed, 9 were capital asset line item construction projects, 7 were major item of equipment projects, and 1 was a decontamination and decommissioning project. A total of 7 sites were represented and included: the Berkeley Site Office; the Brookhaven Site Office; the Fermi Site Office; the Oak Ridge Office; the Pacific Northwest Site Office; the Stanford Linear Accelerator Office; and the Thomas Jefferson Site Office. A summary of the 17 SC projects evaluated is included in Table 2.2–1, Office of Science Projects.

Office	Site	Project Title	Project Type	Phase	Total Project Cost (\$M)	FY08 (\$M)	Actual Federal FTE
SC	Berkeley	ALS User Support Building (USB)	Const	CD-3	35.1	5.0	0.3
SC	Berkeley	Building 51 and Bevatron D&D	D&D	CD-3	50.0	8.7	0.8
SC	Berkeley	Seismic Safety Phase 2	Const	CD-0	98.3	2.0	0.8
SC	Berkeley	Transmission Electron Aber- ration–Corrected Microscope (TEAM)	MIE	CD-3	27.1	4.0	0.3
SC	Brookhaven	Interdisciplinary Science Building – Phase I	Const	CD-0	66.8	0.5	0.5
SC	Brookhaven	National Synchrotron Light Source (NSLS – II)	Const	CD-2	912.0	44.0	2.9
SC	Fermi	Ground – Based Dark En- ergy Experiment (GBDEE) (DES)	MIE	CD-2	35.2	5.5	0.3
SC	Fermi	NUMI Off – Axis Neutrino (v) Appearance (NOvA)	MIE	CD-1	293.0	11.6	2.4
SC	Oak Ridge	Modernization of Laboratory Facilities	Const	CD-1	96.3	9.3	0.5
SC	Oak Ridge	SING II	MIE	CD-1	60.0	6.0	0.5
SC	Oak Ridge	SNS Instruments (SING)	MIE	CD-3	68.5	15.2	0.4
SC	Oak Ridge	SNS Power Upgrade (07PUP)	MIE	CD-0	160.0	0.3	0.6
SC	Pacific Northwest	Physical Sciences Facility (PSF)	Const	CD-3	224.0	24.8	2.3
SC	Stanford Linear Accelerator	LCLS Ultrafast Science Instruments (LUSI)	MIE	CD-1	60.0	6.0	0.9
SC	Stanford Linear Accelerator	Linac Coherent Light Source (LCLS)	Const	CD-3	420.0	50.9	2.0
SC	Thomas Jefferson	12 GeV CEBAF Upgrade	Const	CD-2	310.0	11.3	1.6
SC	Thomas Jefferson	Technology and Engineering Development Facility (TEDF)	Const	CD-0	75.0	0.3	1.1

# Table 2.2-1Office of Science Projects

# 2.3

# NATIONAL NUCLEAR SECURITY ADMINISTRATION

The Department's review and analysis of federal staffing levels included a total of 25 NNSA projects. All 25 NNSA projects were capital asset line item construction projects. A total of 7 large sites were represented including: the Livermore Site Office; the Los Alamos Site Office; the Nevada Site Office; the Pantex Site Office; the Sandia Site Office; the Savannah River Site Office; and the Y-12 Site Office. A summary of the 25 NNSA projects evaluated is included in Table 2.3–1, National Nuclear Security Administration Projects.

Office	Site	Project Title	Project Type	Phase	Total Project Cost (\$M)	FY08 (\$M)	Actual Federal FTE
NNSA	Livermore	National Ignition Facility (NIF)	Const	CD-3	3,502.3	36.0	5.4
NNSA	Los Alamos	Chemistry & Metallurgy Research Facility Replacement (CMRR)	Const	CD-3	975.0	92.4	9.4
NNSA	Los Alamos	Los Alamos Neutron Science Center Refurbishment	Const	CD-0	238.0	9.0	2.1
NNSA	Los Alamos	NMSSUP (Phase II)	Const	CD-1	300.0	59.1	6.4
NNSA	Los Alamos	Replace Radioactive Liquid Waste Treatment Plant	Const	CD-2	104.0	27.6	3.8
NNSA	Los Alamos	TA-55 Infrastructure Reinvestment Project, TRP II	Const	CD-1	70.0	1.2	2.2
NNSA	Los Alamos	TA-55 Infrastructure Reinvestment, TRP 1	Const	CD-2	26.7	6.9	2.3
NNSA	Los Alamos	TRU Waste Facility Project	Const	CD-0	65.0	0.9	4.1
NNSA	Nevada	Criticality Experiments Facility (for- merly TA-18 Mission Relocation)	Const	CD-3	149.6	40.0	3.7
NNSA	Nevada	Replace Fire Stations #1 and #2	Const	CD-3	31.9	6.6	1.5
NNSA	Office Site Engineering and Con- struction Manage- ment	Mixed Oxide Fuel Fabrication Facility (MOX)	Const	CD-3	4,810.0	259.0	14.6
NNSA	Pantex	High Explosive Pressing Facility	Const	CD-3	80.6	17.7	1.4
NNSA	Pantex	High Pressure Fire Loop, Zone 12	Const	CD-2	35.0	7.0	2.6
NNSA	Pantex	Weapons Surveillance Facility	Const	CD-0	135.0	2.0	2.3
NNSA	Sandia	Heating System Modernization, TA-1	Const	CD-3	61.3	13.3	0.8
NNSA	Sandia	Ion Beam Laboratory	Const	CD-3	39.6	9.9	1.8
NNSA	Sandia	Test Capabilities Revitalization (Phase II)	Const	CD-3	74.3	2.5	3.1
NNSA	Savannah River	Pit Disassembly and Conversion Facility (PDCF)	Const	CD-2	3,200.0	50.7	6.9
NNSA	Savannah River	Waste Solidification Building (WSB)	Const	CD-3	330.0	30.1	6.6
NNSA	Y-12	Beryllium Capability (BeC) Project	Const	CD-3	36.1	11.7	2.2
NNSA	Y-12	Highly Enriched Uranium Materials Facility	Const	CD-3	549.1	156.0	5.9
NNSA	Y-12	Potable Water System Upgrade	Const	CD-3	62.6	22.5	3.5
NNSA	Y-12	Security Improvements	Const	CD-1	95.6	6.0	2.2
NNSA	Y-12	Steam Plant Life Extension	Const	CD-3	61.5	14.1	3.4
NNSA	Y-12	Uranium Processing Facility	Const	CD-1	3,500.0	20.3	9.8

Table 2.3-1National Nuclear Security Administration Projects

# 2.4 OFFICE OF ENVIRONMENTAL MANAGEMENT

The Department's review and analysis of federal staffing levels included a total of 50 EM projects. Of the 50 projects reviewed, 5 were capital asset line item construction projects, 15 were decontamination and decommissioning projects, and 30 were environmental remediation projects. A total of 7 large sites were represented including: the Carlsbad Field Office, the Idaho Operations Office, the Oak Ridge Office, the Office of River Protection, the Portsmouth Paducah Project Office, the Richland Operations Office, and the Savannah River Site Office. In addition, projects were also evaluated from the following 8 smaller sites: Brookhaven, Knolls Atomic Power Laboratory, Livermore, Los Alamos, Nevada, Oakland, Pantex, and Sandia. A summary of all 50 EM projects reviewed is included in Table 2.4-1, Office of Environmental Management Projects.

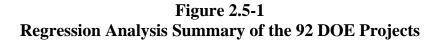
Office	Site	Project Title	Project Type	Phase	Total Project Cost (\$M)	FY08 (\$M)	Actual Federal FTE
EM	Brookhaven	Nuclear Facility D&D – Brookhaven Graphite Research Reactor	D&D	CD-3	\$53.8	24.8	5.1
EM	Carlsbad	Operate Waste Disposal Facility	ER	CD-3	\$742.9	130.0	20.3
EM	Carlsbad	Transportation – WIPP	ER	CD-3	\$177.5	30.0	11.7
EM	Idaho	Non – Nuclear Facility D&D – INL	D&D	CD-3	\$43.4	0.1	4.1
EM	Idaho	Nuclear Facility D&D – INL	D&D	CD-3	\$753.0	63.0	4.2
EM	Idaho	Nuclear Material Stabilization and Dispo- sition	ER	CD-3	\$35.4	2.2	6.5
EM	Idaho	Radioactive Liquid Tank Waste Stabiliza- tion and Disposition 2012	ER	CD-2	\$750.5	181.6	4.9
EM	Idaho	SNF Stabilization and Disposition 2012	ER	CD-3	\$327.4	35.8	3.8
EM	Idaho	Sodium Bearing Waste Treatment (SBWT)	Const	CD-3	\$550.0	344.1	8.1
EM	Idaho	Soil and Water Remediation 2012	ER	CD-3	\$742.7	126.6	12.2
EM	Idaho	Solid Waste Stabilization and Disposition	ER	CD-3	\$1,656.7	195.4	11.6
EM	Knolls Atomic Power Lab SPRU	Nuclear Facility D&D – Separations Process Research Unit (SPRU)	D&D	CD-3	\$300.0	13.3	7.0
EM	Livermore	Soil and Water Remediation – LLNL, Site 300	ER	CD-3	\$49.0	8.7	1.2
EM	Los Alamos	Nuclear Facility D&D – Defense, LANL	D&D	CD-3	\$237.0	33.4	3.2
EM	Los Alamos	Soil and Water Remediation – LANL	ER	CD-3	\$1,910.0	202.2	20.0
EM	Los Alamos	Solid Waste Stabilization and Disposition – LANL Legacy	ER	CD-3	\$565.0	145.2	3.2
EM	Nevada	Operate Waste Disposal Facility – Ne- vada	ER	CD-3	\$114.5	20.2	5.8
EM	Nevada	Soil and Water Remediation – NTS	ER	CD-3	\$396.6	61.1	11.2
EM	Nevada	Solid Waste Stabilization and Disposition – NTS	ER	CD-3	\$29.9	18.9	4.1
EM	Oak Ridge	Downblend of U–233 in Building 3019	ER	CD-3	\$384.8	44.2	8.0

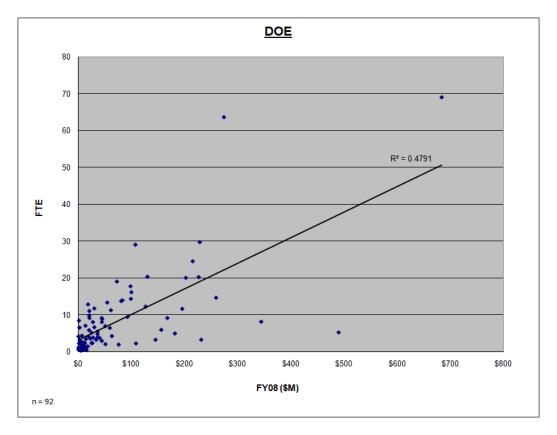
Table 2.4-1Office of Environmental Management Projects

Office	Site	Project Title	Project Type	Phase	Total Project Cost (\$M)	FY08 (\$M)	Actual Federal FTE
EM	Oak Ridge	Nuclear Facility D&D – East Tennessee Technology Park	D&D	CD-3	\$1,698.5	228.4	29.7
EM	Oak Ridge	Nuclear Facility D&D – Oak Ridge Na- tional Laboratory	D&D	CD-3	\$488.9	54.3	13.3
EM	Oak Ridge	Nuclear Facility D&D Y–12	D&D	CD-3	\$337.8	20.6	11.0
EM	Oak Ridge	Soil and Water Remediation – Melton Valley	ER	CD-3	\$360.9	6.8	4.3
EM	Oak Ridge	Solid Waste Stabilization and Disposition	ER	CD-3	\$597.8	80.4	13.7
EM	Oakland	Nuclear Facility D&D – Energy Technol- ogy Engineering Center	D&D	CD-3	\$45.6	18.2	12.8
EM	Office of River Pro- tection	Radioactive Liquid Tank Waste Stabiliza- tion and Disposition – ORP (Tank Farm)	ER	CD-3	\$2,454.0	273.9	63.6
EM	Office of River Pro- tection	WTP – Analytical Laboratory	Const	CD-3	\$12,263	683.7	69.0
EM	Pantex	Soil and Water Remediation – Pantex	ER	CD-3	\$182.0	26.3	2.3
EM	Ports- mouth/Padu cah	Depleted Uranium Hexafluoride 6 Con- version (DUF6)	Const	CD-2	\$429.6	43.9	9.1
EM	Ports- mouth/Padu cah	Nuclear Facility D&D of Gaseous Diffu- sion Plant – Portsmouth	D&D	CD-3	\$1,062.8	167.4	9.1
EM	Ports- mouth/Padu cah	Solid Waste Stabilization and Disposition – LPP – Portsmouth	ER	CD-3	\$185.6	44.6	8.8
EM	Ports- mouth/Padu cah	Solid Waste Stabilization and Disposition – Paducah	ER	CD-3	\$97.2	27.2	8.0
EM	Richland	NM Stabilization and Disposition – PFP	D&D	CD-3	\$1,149.4	98.0	17.7
EM	Richland	Nuclear Facility D&D – Fast Flux Test Facility	D&D	CD-3	\$117.2	20.8	9.1
EM	Richland	Nuclear Facility D&D – Remainder of Hanford	D&D	CD-3	\$562.3	98.8	14.3
EM	Richland	Nuclear Facility D&D – River Corridor Closure Project (RCCP)	D&D	CD-3	\$3,909.9	215.2	24.5
EM	Richland	SNF Stabilization and Disposition (K Basin Closure – KBC)	ER	CD-3	\$199.6	99.8	16.1
EM	Richland	Soil and Water Remediation – Ground- water/Vadose Zone	ER	CD-3	\$1,144.0	72.4	19.0
EM	Richland	Solid Waste Stabilization and Disposition – 200 Area	ER	CD-3	\$931.2	226.3	20.2
EM	Sandia	Soil and Water Remediation – Sandia	ER	CD-3	\$235.2	2.5	0.7
EM	Savannah River	Balance of Nuclear Materials	ER	CD-3	\$816.0	108.3	2.2
EM	Savannah River	Enriched Uranium Disposition Project	ER	CD-3	\$1,955.0	231.2	3.2
EM	Savannah River	Nuclear Facility D&D – SRS	D&D	CD-3	\$108.0	6.0	1.9
EM	Savannah River	Plutonium Disposition Project	Const	CD-1	\$500.0	1.0	8.4
EM	Savannah River	Radioactive Liquid Tank Waste Stabiliza- tion and Disposition - SRS	ER	CD-3	\$4,395.0	489.8	5.2
EM	Savannah River	Salt Waste Processing Facility (SWPF)	Const	CD-2	\$900.0	107.2	29.0
EM	Savannah River	Soil and Water Remediation – SRS	ER	CD-3	\$87.0	75.8	1.9
EM	Savannah River	Solid Waste Stabilization and Disposition – SRS	ER	CD-3	\$419.0	83.0	13.9
EM	UMTRA	Soil and Water Remediation – Moab	ER	CD-3	\$849.0	36.0	4.7

### 2.5 ANALYSIS OF FEDERAL STAFFING OF PROJECTS

The Department used linear regression to analyze the relationship between the federal staffing of projects in relation to the FY08 project value by Program Office and by project type. The results indicate that there is minimal relationship between the FY08 project value and the associated level of federal staffing. The relationship is weak and inconsistent among Program Offices, sites, and project types. Figure 2.5-1, Regression Analysis of 92 DOE Projects reveals that the coefficient of determination (R<sup>2</sup>) is 0.48. This means that, overall, for the 92 projects reviewed and analyzed, roughly 48 percent of the time, the relationship between FY08 federal staffing and FY08 project value is explainable and 52 percent of the time it is unexplainable. In general, coefficient of determination values greater than 0.75 represent that a strong relationship exists between variables and values less than 0.50 are indicative of weak relationships.





When the corrective measure team analyzed the  $R^2$  within Program Offices, there were varying ranges. Table 2.5-1, Coefficient of Determination Values by Program Offices lists the SC, NNSA and EM coefficients of determination.

Departmental Program	Coefficient of Determination (R <sup>2</sup> )	Number of Projects
National Nuclear Security Administration	0.63	25
Office of Science	0.54	17
Office of Environmental Management	0.40	50

 Table 2.5-1

 Coefficient of Determination (R<sup>2</sup>) Values by Program Offices

In addition, the corrective measure team also analyzed the relationship between the federal staffing and the FY08 project value by project type. The strongest relationship exists in capital asset line item construction and decontamination and decommissioning projects. Table 2.5-2, Coefficient of Determination Values by Project Type, provides a summary of the coefficients of determination for each of the four project types.

Table 2.5-2Coefficient of Determination (R<sup>2</sup>) Values by Project Type

Project Type	Coefficient of Determination (R <sup>2</sup> )	Number of Pro- jects
Capital Asset Line Item Construction	0.75	39
Decontamination and Decommissioning	0.67	16
Major Item of Equipment	0.13	7
Environmental Remediation	0.13	30

A complete listing of all regression analyses conducted by the corrective measure team is included in Appendix B. Based upon these results the Department recognizes the need to establish a more consistent approach in the federal staffing of projects while taking into consideration the unique nature and diversity of DOE projects. Prior to establishing the basis for a more uniform staffing approach, the corrective measure team identified and evaluated the federal staffing approaches taken by other federal agencies. A summary of these approaches is in Chapter 3.

# Chapter 3 Federal Agency Workload Staffing Approaches

Inadequate project oversight has been a criticism levied on DOE for several years. Unlike other federal organizations such as the Naval Facilities Engineering Command and the U.S. Army Corps of Engineers, who have a history of making staffing decisions using well-developed models, DOE has had no such model and therefore lacked an objective basis for making staffing decisions. Therefore, prior to the development of a workload-based approach for the federal staffing of DOE projects, the corrective measure team contacted and visited with other federal agencies to collect information on their respective approaches to federal project staffing. The information contained in the following sections is a summary of the approaches to federal project staffing used by the following federal agencies: the Naval Facilities Engineering Command, the U.S. Army Corps of Engineers, and the General Services Administration Public Building Services. Additionally, the Department contacted the Construction Industry Institute for information regarding staffing model use outside of the Federal Government and that information is outlined below.

# 3.1 NAVAL FACILITIES ENGINEERING COMMAND

The Naval Facilities Engineering Command (NAVFAC) is the designated responsible agent for acquisition execution of facility requirements for the Navy and Marine Corps. NAVFAC is also a design and construction agent for the United States Air Force and other Department of Defense entities for specific geographical areas and facility disciplines. Facilities acquisition efforts include acquisition support services associated with the execution of repair, maintenance, minor construction, major construction, environmental compliance and remediation services, and other facility-type actions. Acquisition support services include contract and project management, construction inspection, supervision and overhead efforts, as well as the review and administration of contract submittals for design, construction, and facility support contracts.

The current NAVFAC staffing model uses a construction contracting cell concept and template to provide work force size recommendation for field offices. The concept and template incorporates the annual cost of construction work and a productivity factor (annual dollars managed per federal full time equivalent - FTE) and accounts for the increased difficulty of renovation work versus new construction work by applying a factor of 2 to 1, respectively. The productivity factor used by NAVFAC ranges between \$3M and \$5M per FTE. The construction contracting cell concept also includes a skills mix recommendation to drive consistency in team capability and process execution. The cell concept skills mix allocation includes: project management and engineering (40%); quality assurance and construction management (30%); contract administration (20%); and administration (10%). For each of the four skills mix areas, the NAVFAC construction contracting cell concept includes a series of well-defined field team roles and responsibilities matrices.

NAVFAC regional headquarters offices make the actual construction team staffing decisions using the construction contracting cell template as a starting point. There is flexibility in the process by these regional offices, and the use of judgment is applied based on local factors. The key attributes that make the process function effectively are: ownership of the process by the offices, employee accountability by accounting for their time to specific projects, and established procedures for maintaining an accurate on board count of the existing functions and series mix for each field office.

NAVFAC recovers the funding for federal project staffing of supervision, inspection and overhead (SIOH) services through the application of a fixed SIOH rate. The SIOH rate is typically a fixed rate based on the contract action; however, it varies by contract action depending on the source of contract action funding, the type of contract action and the location of the contract action. In 2009, the SIOH rate was 5.7% of the project construction cost and it is assigned as a project cost.

# 3.2 U.S. ARMY CORPS OF ENGINEERS

The U.S. Army Corps of Engineers (USACE) is responsible for the design and construction of facilities to support the Department of Defense. It is also responsible through its Directorate of Civil Works, for planning, design, and construction of civil works projects.

The USACE obtains manpower allocations from the Department of Army Headquarters. Requirements are determined with the aid of a computer model that looks at past experience and current workload. The USACE approach to the federal staffing of projects is comprised of three interrelated manpower models/systems:

Integrated Manning Document—Inventory of USACE staff by position and function and updated every 2 weeks.

- Corps of Engineers Manpower Requirements System (CEMRS)— Uses information (projects, work breakdown structure, activities, schedules, resource estimates) from project management system that focuses on current year and budget year.
- Workload and Workforce Planning—Used for out-year planning with a 5-year planning horizon.

The models evaluate past experience and current workload to determine staffing allocation. Specific staffing algorithms are used for construction projects as well as environmental remediation projects. Subsequent staff quantities and skills for specific projects are identified and established in project quality assurance plans.

The USACE provides construction management services for a wide variety of projects. These services are charged to and financed by the individual project through application of a construction supervision and administration (S&A) charge. Normally, S&A is charged on a flat rate basis that conforms to the general type of project and the location. The construction S&A represents activities performed and costs incurred which are generally considered government construction management and contract administration responsibilities. Most of the construction S&A represents construction quality services, including contract management. The other portions include project payment and funds management, and post-construction completion and closeout management. In 2009 the S&A rate was 5.7% of the total project construction cost.

3.3 GENERAL SERVICES ADMINISTRATION PUBLIC BUILDING SERVICES

> The corrective measure team collected and reviewed documentation from the General Services Administration Public Building Services (GSA PBS) to ascertain information regarding the organization's approach to facility design and construction federal staffing. All GSA PBS human capital assets are deployed in two fundamental areas:

- Space acquisition through new construction or leasing. This is a project management activity that translates customer agency's space needs into discrete requirements, marshals resources necessary to fulfill the requirements and manages the execution of the project.
- Lifecycle asset management of the acquired space. This includes: physical supervision of the building, fulfilling contractual obliga-

tions, ensuring continuity of operations, and determining prudent investments in maintaining the property.

Through its Design and Construction Excellence programs, GSA PBS uses private sector architects, construction managers, and engineers to design and build courthouses, border stations, federal office buildings, laboratories, and data processing centers.

GSA PBS is organized into 10 regions and each region operates autonomously and independently with regard to staffing decisions. The GSA PBS Headquarters organization includes a Human Capital Asset Management Division that maintains a Center for Workforce Planning that delivers an array of services including workforce capacity modeling and scenarios. One particular product is the development and use of a staffing algorithm to assist in determining staffing needs and gaps for public building construction and repair activities. The primary factors used in the staffing algorithm include:

#### \* Types of Projects

- New Construction
- Major Renovation and Repairs
- Modifications

### Levels of Complexity

- No Design—vendor able to develop, design, and construct with specifications only
- Simple Design—design with 1 or 2 disciplines (e.g., architect and electrical); two phases: development/design and construction
- Complex Design—design with 3 or more disciplines (e.g., architect, mechanical, electrical, civil/structural); typically three phases: development, design, and construction

In addition, project phase and regional factors are also used to determine staffing levels. Despite the development of the staffing algorithm to assist regions in determining the appropriate staffing of projects, the application and use of the algorithm and the subsequent staffing levels are not always consistent from one region to another.

# 3.4 CONSTRUCTION INDUSTRY INSTITUTE

The Department also contacted the Construction Industry Institute (CII) to collect comparable benchmarking data. While CII did not have specific staffing model algorithms or approaches used by owner representatives to staff projects, CII did provide information regarding the number of owner's representative personnel associated with project planning and execution versus the total project costs. In general, owner representatives provided approximately one FTE for every \$5 million annual project costs or a productivity factor of approximately \$5 million per FTE in a fiscal year.

Based on the information collected from other federal agencies and discussions and input within DOE, the corrective measure team identified key project attributes that influence DOE federal staffing levels. These attributes were organized into a workload-based staffing algorithm and subsequently used to develop a staffing model. While the DOE model incorporates elements of the NAVFAC, USACE and GSA PBS models, the DOE model is tailored to address the unique characteristics of DOE projects as well as the management and operations (M&O) model used to execute many of DOE's projects. The following sections contain information regarding the project attributes influencing the federal project staffing levels, the workload-based staffing algorithm, and the staffing model.

# 4.1 PROJECT ATTRIBUTES INFLUENCING STAFFING LEVELS

Subsequent to interviews and document reviews, the corrective measure team identified key project attributes which influence the level of federal staffing. These project attributes, some of which are common across other federal agencies and others unique to DOE, are identified and summarized in Table 4.1-1, Project Attributes Influencing Federal Staffing Levels.

Project Attribute	Description		
1. Project Value (PV)	The value of the project in terms of the dollars to be executed by fiscal year influence the number of federal staff needed to plan, direct and oversee project execution.		
2. Productivity Factor (PF)	Productivity factor in this context refers to the reasonable amount of project dollars that a single federal full time equivalent can effectively manage in a fiscal year.		
3. Project Type (PT)	The type of project (capital asset line item construction, ma- jor item of equipment, decontamination & decommissioning, or environmental remediation) influences federal staffing.		
4. Project Complexity (PC)	The project complexity, based on hazard categories (DOE STD 1027-92), safeguard categories (DOE M 470.4-6), and the technology level and maturity affects federal staffing.		

Table 4.1-1Project Attributes Influencing Federal Staffing Levels

Project Attribute	Description
5. Project Execution (PE)	The method of project execution (DOE direct contracting, site M&O execution, or site M&O subcontractor execution) influences federal staffing.
6. Project Phase (PP)	The project phase (CD-0, CD-1, CD-2, or CD-3) impacts the level of federal staffing, particularly in early planning stages to improve front-end planning.
7. Regulatory Involvement (RI)	The satisfactory compliance to various regulations influences the amount of federal staffing. The greater the project's regu- latory involvement, the greater the federal staffing resources.
8. External Influence (EI)	The degree of external influence on a project influences fed- eral staffing. The greater the external influence, the more federal staff resources required to manage the project.
9. Project Uniqueness (PU)	The uniqueness of a project in terms of whether it is a first of a kind impacts staffing levels. Unique or first-of-a-kind pro- jects typically require increased federal staffing.
10. Contract Type (CT)	The type of contract used to procure the project's goods and services (fixed price, cost reimbursement, or time and mate- rials) influences federal staffing.

Each of these project attributes have been organized into a workload-based staffing algorithm, which is depicted in the next section.

### 4.2 WORKLOAD-BASED STAFFING ALGORITHM

Each of the project attributes identified above were incorporated into the development of the DOE workload-based staffing algorithm. The algorithm is comprised of three steps: establish the project's unadjusted staffing, adjust project staffing based on project characteristics, and allocate the project's adjusted project staffing to contract and project management functions. These steps and the associated algorithm are depicted in Figure 4.2-1, DOE Workload-Based Staffing Algorithm.

#### Figure 4.2-1 DOE Workload-Based Staffing Algorithm

#### Step 1: Establish the Project's Unadjusted Staffing

 $\frac{PV}{PF} = PS \text{ (Unadjusted)}$ 

#### Step 2: Adjust the Project's Staffing Based on Project Characteristics

 $PS_{(Unadjusted) +} PS_{(Unadjusted)} (PT + PC + PE + PP + RI + EI + PU + CT) = PS_{(Adjusted)}$ 

Step 3: Allocate the Project's Adjusted Project Staffing to Contract and Project Management Functions

PS (Adjusted) x FAP = SA

Variable Acronyms

- PV = Project Value
- PF = Productivity Factor
- PS = Project Staffing
- PT = Project Type
- PC = Project Complexity
- PE = Project Execution
- PP = Project Phase
- RI = Regulatory Involvement
- EI = External Influence
- PU = Project Uniqueness
- CT = Contract Type
- FAP = Functional Area Percentages

SA = Staff Allocation for Associated Functional Area

### 4.3 STAFFING MODEL

The corrective measure team developed the DOE staffing model in a Microsoft Excel spreadsheet format. The staffing model includes the following sections: factor values, current projects, planned projects, functional area percentages, projected full-time equivalents, FY08 baseline staffing vs. model projections, and FY08 staffing model results.

#### **Factor Values**

The staffing model section on factor values includes a summary of the variables incorporated into the staffing model and their associated numerical values used to adjust the recommended staffing level. Figure 4.3-1, Staffing Model Factor Values, identifies the factor values associated with each variable that are incorporated into the staffing model.

Each of the factors influences the level of federal staffing. However, the productivity factor carries significant weight. The average productivity factor all 92 projects evaluated was approximately \$14 million/full time equivalent (M/FTE). An initial benchmark of \$12.5 M/FTE was established based on a graded approach to improving the ratio of federal staff to dollars managed. However, different productivity factors may be applicable to various projects and Program Offices depending upon who is responsible for project execution. For example, in the case of Office of Science projects which are managed by non-profit organizations, a higher productivity factor may be appropriate. In these instances, the non-profit organization is acting on behalf of the Department and performing many of the contract and project management functions. In other Departmental Program Offices such as NNSA and EM where for-profit organizations are responsible for executing projects, more federal oversight is warranted necessitating a lower productivity factor. As DOE increases the federal staffing of its projects, the annual dollars managed by a single federal FTE will go down. With the exception of oversight on non-profit entities, the goal is to achieve a productivity factor between \$5 and \$10 M/FTE by FY2012. This goal recognizes the \$5M/FTE benchmark used by most other federal entities and industry while acknowledging the unique M&O business model prevalent within DOE. A complete sensitivity analysis was conducted for each Program Office project in the staffing study. This sensitivity analysis included productivity factors ranging from \$5M/FTE to \$20M/FTE and included increments of \$2.5M/FTE. A total of seven scenarios were evaluated. The results of the sensitivity analysis are included in Appendix C.

Figure 4.3-1
<b>Staffing Model Factor Values</b>

Project Type	Value
Environmental Remediation (ER)	0.075
Decontamination & Decommissioning (D&D)	0.050
Construction (Const)	0.025
Major Items of Equipment (MIE)	0.000
Productivity Factor	Value
Project \$M managed/FTE – Initial Benchmark (FY09)	12.5
Project \$M managed/FTE – Target (FY10)	10.0
Project \$M managed/FTE – Target (FY11)	7.5
Project \$M managed/FTE – Goal (FY12)	5.0
Project Complexity	Value
High	0.2
Med	0.1
Low	0.0
Project Execution	Value
DOE Direct	0.5
DOE M&O	0.2
DOE M&O (non-profit)	0.1
DOE M&O (Sub)	0.0
Project Phase	Value
CD - 0	2.0
CD - 1	1.0
CD – 2	0.5
CD – 3	0.0
Contract Type	Value
Fixed-price (firm, no incentive)	0.0
Fixed-price (price adjustments, no incentive)	0.0
Cost-reimbursement	0.1
Incentive (fixed-price)	0.0
Incentive (cost-reimbursement)	0.1
Indefinite-delivery	0.2
T&M	0.2
Project Uniqueness	Value
First-Of-A-Kind	0.1
Not First of a Kind	0.0
Regulatory Involvement	Value
High	0.10
Medium	0.05
Low	0.00
External Influence	Value
High	0.10
Medium	0.05
Low	0.00

### **Current Projects**

The staffing model section on current projects includes data on all of the projects in the staffing study. The project information is organized by DOE Program Office and then aligned by Site or Field Office where the projects

are being managed and/or executed. The project data included in the current projects section includes the specific variables associated with each specific project as well as the fiscal year funding for the project. A representative sample of the data contained in the current projects section of the staffing model is included in Figure 4.3-2, Staffing Model Current Projects.

Figure 4.3-2
<b>Staffing Model Current Projects</b>

	Factor							Project	Project
Program / Site Office / Project Title	Project Type Project Project Project Execution Contract Type Project Regulator	Regulatory Involvement	External Influence	Value (\$M)	Phase				
Livermore								\$36.0	
National Ignition Facility (NIF)	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	36.0	3
Los Alamos								\$197	
Chemistry & Metallurgy Research Facility Replacement	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	92.4	3
Los Alamos Neutron Science Center Reburbishment	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	9.0	0
NMSSUP (Phase II)	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	59.1	1
Replace Radioactive Liquid Waste Treatment Plant	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	27.6	2
TA – 55 Infrastructure Reinvestment Project, TRP II	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	1.2	1
TA-55 Infrastructure Reinvestment, TRP 1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	6.9	2
TRU Waste Facility Project	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	0.9	0
Nevada								\$47	
Criticality Experiments Facility (formerly TA-18 Mission	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	40.0	3
Replace Fire Stations #1 and #2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	6.6	3
Pantex								\$27	
High Explosive Pressing Facility	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	17.7	3
High Pressure Fire Loop, Zone 12	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	7.0	2
Weapons Surveillance Facility	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	2.0	0
Sandia								\$26	
Heating System Modernization, TA-1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	13.3	3
Ion Beam Laboratory	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	9.9	3
Test Capabilities Revitalization (Phase II)	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	2.5	3
Office of Site Engineering and Construction Management	NA-262							\$259	
Mixed Oxide Fuel Fabrication Facility (MOX)	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	259.0	3
Savannah River								\$81	
Pit Disassembly and Conversion Facility (PDCF)	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	50.7	2
Waste Solidification Building (WSB)	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	30.1	3
Y-12								\$231	
Beryllium Capability (BeC) Project	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	11.7	3
Highly Enriched Uranium Materials Facility	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	156.0	3
Potable Water System Upgrade	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	22.5	3
Security Improvements	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	6.0	1
Steam Plant Life Extension	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	14.1	3
Uranium Processing Facility	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	20.3	1

### **Planned Projects**

The staffing model section on planned projects includes an opportunity for the Department to incorporate new projects as identified. The project data captured for planned projects are exactly the same as the data included for current projects.

#### **Functional Area Percentages**

The staffing model section on functional area percentages identifies the suggested allocation of project staffing across a total of 10 functions depending on the type of the project and the phase of the project. Figure 4.3-3, Functional Area Percentages, is a representative example of the percentage distribution for each type of project. Each type of project has a unique distribution and allocation of staff by function as determined by input from DOE Program Offices.

Function		Construction					
Function	CD-0	CD-1	CD-2	CD-3			
Contracting, Subcontracting, and Property Management	15%	5%	5%	20%			
Program and Project Planning, Control and Management	25%	20%	20%	20%			
Science, Engineering, and Design Support	25%	40%	25%	20%			
Construction Oversight and Management	0%	0%	0%	5%			
Quality Assurance	0%	0%	9%	5%			
Environment, Safety, and Health	20%	20%	20%	10%			
Finance and Administration	5%	5%	5%	5%			
Safeguards and Security	5%	5%	5%	4%			
Operations Oversight	0%	0%	10%	10%			
Public Affairs and Stakeholder Relations	5%	5%	1%	1%			
Total	100%	100%	100%	100%			

### Figure 4.3-3 Staffing Model Functional Area Percentages by Project Type

Function	Γ	Major Items of Equipment					
Function	CD-0	CD-1	CD-2	CD-3			
Contracting, Subcontracting, and Property Management	25%	15%	25%	8%			
Program and Project Planning, Control and Management	30%	38%	35%	35%			
Science, Engineering, and Design Support	15%	15%	17%	15%			
Construction Oversight and Management	0%	0%	0%	5%			
Quality Assurance	0%	0%	5%	5%			
Environment, Safety, and Health	3%	5%	5%	15%			
Finance and Administration	22%	20%	10%	10%			
Safeguards and Security	0%	2%	3%	3%			
Operations Oversight	0%	0%	0%	4%			
Public Affairs and Stakeholder Relations	5%	5%	0%	0%			
Total	100%	100%	100%	100%			

Function	Er	Environmental Remediation						
Function	CD-0	CD-1	CD-2	CD-3				
Contracting, Subcontracting, and Property Management	30%	15%	15%	20%				
Program and Project Planning, Control and Management	15%	30%	30%	20%				
Science, Engineering, and Design Support	20%	20%	15%	7%				
Construction Oversight and Management	0%	0%	0%	5%				
Quality Assurance	0%	0%	7%	5%				
Environment, Safety, and Health	10%	15%	15%	20%				
Finance and Administration	15%	12%	5%	8%				
Safeguards and Security	5%	3%	3%	5%				
Operations Oversight	0%	0%	5%	5%				
Public Affairs and Stakeholder Relations	5%	5%	5%	5%				
Total	100%	100%	100%	100%				

Function	Decon	Decontamination & Decommissioning					
Function	CD-0	CD-1	CD-2	CD-3			
Contracting, Subcontracting, and Property Management	30%	15%	15%	20%			
Program and Project Planning, Control and Management	15%	30%	30%	20%			
Science, Engineering, and Design Support	20%	20%	15%	10%			
Construction Oversight and Management	0%	0%	0%	5%			
Quality Assurance	0%	0%	6%	5%			
Environment, Safety, and Health	10%	15%	15%	20%			
Finance and Administration	15%	12%	8%	8%			
Safeguards and Security	5%	5%	5%	5%			
Operations Oversight	0%	0%	5%	5%			
Public Affairs and Stakeholder Relations	5%	3%	1%	2%			
Total	100%	100%	100%	100%			

Within each of the functions associated with project types and project phases, there are roles and responsibilities that are more appropriate for federal personnel and others that can and are delegated to contractors. An analysis of the appropriate roles and responsibilities within these functions to be performed by federal and contractor personnel is currently being conducted. However, there are certain responsibilities that federal personnel cannot delegate to contractors including the review, approval and acceptance of work products associated with DOE's acquisition management and critical decision process. The Department's review and approval of such documents and work products is central to its role of project owner. When complete, the breakdown of contract and project management roles and responsibilities should provide DOE with a clear definition and delineation of activities performed by federal and contractor personnel.

#### **Projected Full-Time Equivalents**

The staffing model section on projected full-time equivalents includes the recommended staffing for each project by function based on the project data provided. Similar to the manner in which the current projects section is organized, the projected full-time equivalents section is organized by DOE Program Office and then aligned by Site or Field Office where the projects are being managed and/or executed. A representative sample is included in Figure 4.3-4, Staffing Model Projected Full-Time Equivalents.

Program/Site Office/Project/Function	FY08
NNSA	119.
Livermore	3.
National Ignition Facility (NIF)	3.
Contracting, Subcontracting, and Property Management	0.
Program and Project Planning, Control and Management	0.
Science, Engineering, and Design Support	0.
Construction Oversight and Management	0.
Quality Assurance	0.
Environment, Safety, and Health	0
Finance and Administration	0
Safeguards and Security	0
Operations Oversight	0
Public Affairs and Stakeholder Relations	0
Los Alamos	28.
Chemistry & Metallurgy Research Facility Replacement (CMRR)	9.
Contracting, Subcontracting, and Property Management	1
Program and Project Planning, Control and Management	1
Science, Engineering, and Design Support	1
Construction Oversight and Management	0
Quality Assurance	0
Environment, Safety, and Health	0
Finance and Administration	0
Safeguards and Security	0
Operations Oversight	0.
Public Affairs and Stakeholder Relations	0.

Figure 4.3-4 Staffing Model Projected Full-Time Equivalents

#### FY08 Staffing Baseline vs. Model Projections

The staffing model section on FY08 staffing baseline vs. model projections includes a comparison between the actual project staffing submitted by Site or Field Offices and the projections based upon application of the model to specific projects with the associated variables and factor values incorporated. Figure 4.3-5, FY08 Staffing Baseline vs. Model Projections, provides a representative example of the comparison between existing project staffing levels and recommended project staffing levels using the model.

Program/Site Office/Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc	\$205	18.2	11.3	23.6	5.43	30%
Berkeley	\$20	2.2	9.0	2.0	(0.18)	-8%
Brookhaven	\$45	3.4	13.1	5.8	2.44	72%
Fermi	\$17	2.7	6.3	2.5	(0.18)	-7%
Oak Ridge	\$31	2.0	15.4	3.9	1.92	96%
Pacific Northwest	\$25	2.3	10.8	2.2	(0.07)	-3%
Stanford Linear Accelerator	\$57	2.9	19.6	5.6	2.69	93%
Thomas Jefferson	\$12	2.7	4.3	1.5	(1.18)	-44%

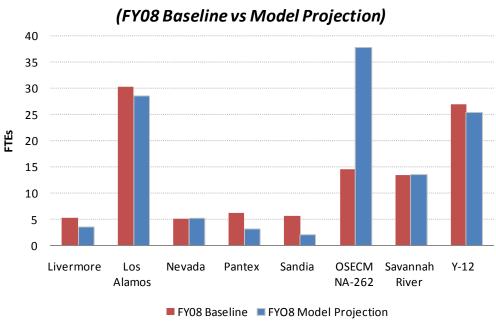
Figure 4.3-5 FY08 Staffing Baseline vs. Model Projections

#### FY08 Staffing Model Results

Lastly, the staffing model section on FY08 staffing model results provides a graphic summary of the results based on the application of the variables and factor values in the staffing model and project data submitted. Figure 4.3-6, FY08 Staffing Model Results, depicts a representative sample of the output.

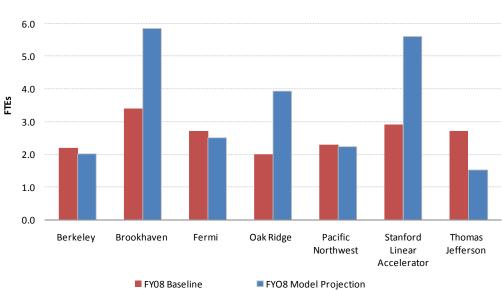
Figure 4.3-6 FY08 Staffing Model Results

Area	DOE	NNSA	SC	EM
Baseline FTE	729.1	108.0	18.2	602.9
Model FTE	839.2	119.1	23.6	696.4
Gap FTE	110.1	11.1	5.4	93.5



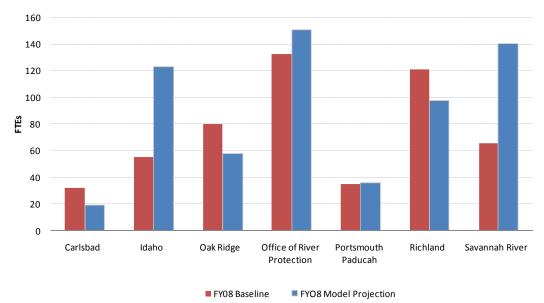
**NNSA** 

Science (FY08 Baseline vs Model Projection)



7.0

4-11



#### Environmental Management (FY08 Baseline vs Model Projection)

Each of the seven sections mentioned above are interrelated and collectively comprise the DOE workload-based staffing model. The corrective measure team has developed the model to maximize functionality. While the draft model identifies a point estimate, a plus or minus 10 - 20 percent of the point estimate is intended to establish the recommended range for the staffing of specific projects. This plus or minus percentage increases the Federal Project Director's flexibility to increase or decrease staffing based upon the project's performance. In addition, the recommended staffing range may require further adjustment based upon the current performance of the project. Projects performing with red assessment or yellow assessment trending towards red may warrant additional federal staffing.

The staffing model is the Department's first to establish a workload-based staffing model to be used to identify the proper amount and type of federal personnel required to oversee projects of certain type and amount. Subsequent activities are recommended to continue to mature and refine the model and are identified in Chapter 6, Summary and Next Steps.

The following section identifies a list of preliminary alternatives available to the Department to address the shortage in federal staffing. These alternatives are not mutually exclusive. Depending on the specific project and site conditions, one or more of these alternatives may be used to optimize federal project staffing.

## 5.1 PRELIMINARY RESOURCE ALTERNATIVES

To address the need for additional federal resources, the corrective measure team has identified the following preliminary resource alternatives:

- Reduce the Demand for Additional Federal Staffing by Delaying Some New Project Starts
  - Delay the start of new projects until adequate federal staff are available to provide the necessary oversight
- Address the Demand for Additional Federal Staffing by Reallocating Personnel within One Program
  - Transfer or temporarily assign personnel from within a single Program Office for an established period of time to focus on projects of greatest need
- Address the Demand for Additional Federal Staffing by Reallocating Personnel Among Program Offices
  - Transfer or temporarily assign personnel among Program Offices for an established period of time to focus on projects of greatest need
- Increase Federal Staffing Levels Through Increased DOE Funding and FTEs
  - Request additional Departmental funding to be specifically used to hire additional federal personnel to provide contract and project management oversight

- Increase Federal Staffing Levels by Funding Additional Federal Oversight Personnel from Project Budgets
  - Pay for additional federal oversight personnel from existing project budgets either funded by an individual project or from combined funding from multiple Program projects (i.e., the USACE and NAVFAC models)
- Acquire Federal Staffing Resources from Other Federal Agencies as an Augment
  - Secure contract and project management services and personnel for DOE projects from other federal agencies
- Assign or Transfer Contract and Project Management Activities to Other Federal Agencies
  - Transfer the authority and responsibility for contract and project management functions to other federal agencies
- ✤ Augment Federal Staffing Levels with Support Service Contractors
  - Increase DOE contract and project management oversight capability by augmenting federal staff with support service contractors
- ✤ Maintain or Increase Reliance on DOE Site M&O Contractors
  - Continue to rely on DOE site M&O contractors to provide the necessary contract and project management personnel and services

# 5.2 RESOURCE ALTERNATIVES – BENEFITS AND CHALLENGES

Each of the resource alternatives contains both positive (benefits) and negative (challenges) consequences. Table 5.2-1 and Table 5.2-2 identify the resource alternatives benefits and challenges, respectively. For each of the nine resource alternatives identified, a checkmark indicates that the benefit or challenge applies to the specific resource alternative.

		RESOURCE ALTERNATIVES							
Key Benefits of Resource Alternatives	Delay New Project Starts	Reallocate Personnel within One Program	Reallocate Personnel Among Programs	Increase DOE Staff Funding	Fund Federal Over- sight from Project Budget	Acquire Staff from Other Federal Agencies	Transfer Work to Federal Agencies	Augment Staff with Contract Support	Rely on DOE Site Contractor
Requires No New Budget Resources	~	✓	~		✓				~
Controls Staffing Levels to Funding	*	~	V		~				~
Eliminates Costs of Hiring Addi- tional Staff	~	~	~			V	V	V	✓
Meet Exist- ing and New Requirements		~	~	~	~	~	~	~	~
Quick Solu- tion to Ad- dress Staffing Needs	~	~	✓			~	V	~	✓
Flexibility to Changes in Demand		~	~			~	✓	✓	✓
Reduces DOE Staffing Needs	~	✓	~			~	~	~	~
Grows Organic Capability				•	V				

#### Table 5.2-1 Resource Alternatives – Benefits

	RESOURCE ALTERNATIVES								
Challenges of Resource Alternatives	Delay New Project Starts	Reallocate Personnel within One Program	Reallocate Personnel Among Programs	Increase DOE Staff Funding	Fund Federal Oversight from Project Budget	Acquire Staff from Other Federal Agencies	Transfer Work to Federal Agencies	Augment Staff with Contract Support	Rely on DOE Site Contractor
Inability to Meet Regu- latory Mile- stones					~				
Complicates Project Portfolio Management	~	~	~		~		~		
Limited Mobility of Federal Staff		~	~						
Increases Lifecycle Project Costs		✓			~				
Lack of Available Budget Resources				✓		~	~	~	
Inability to Hire Re- quired Skilled Staff				~	~				
Failure to Develop DOE Federal Skills						~	~	~	~

#### Table 5.2-2 Resource Alternatives – Challenges

In addition, there are overarching issues such as physical space needs for the additional personnel and potential contract changes to improve the management of contractors. However, once a documented need for additional federal resources is established, one or more of the identified alternatives is likely to be exercised to address and satisfy the need.

5.3

## PROGRAM OFFICE RESOURCE ALTERNATIVES

The corrective measure team has identified the preferred resource alternatives by Program Office. The following is a list of potential alternatives to be used by respective Program Offices to address the need for additional personnel resources to improve federal oversight.

#### **Office of Science**

#### \* Continue reliance on DOE site M&O contractors

- SC site M&O contractors are non-profit organizations
- SC holds the M&O accountable for meeting the performance baseline. To date, the performance of the M&Os has been good
- SC provides "checks and balances" of the M&O by conducting regular peer reviews of projects. Peer reviews also ensure projects are executed according to plan
- Reduces SC need for additional federal staff and provides flexibility to changes in demand

#### \* Reallocate personnel to focus on areas/projects of greatest need

- Transfer/assign SC personnel to specific projects for an established period of time
- If SC personnel are not available, consider transfer/assignment of personnel from other Program Offices

#### **National Nuclear Security Administration**

#### ✤ Delay new project starts

 Wait to initiate projects until adequate resources are available to provide the necessary oversight; assign more personnel to fewer projects

#### \* Reallocate personnel to focus on areas/projects of greatest need

- Transfer/assign NNSA personnel to specific projects for an established period of time
- If NNSA personnel are not available, consider transfer/assignment of personnel from other Program Offices

#### Fund federal oversight from project budget either by individual project or from a pooled funding from several Program projects

- Applicable to NNSA sites with multiple ongoing large projects
- Appropriate for large projects with high total project costs and longer schedules

#### Augment NNSA federal personnel with support service contractors

- Provides for a quick solution to address staffing needs in specific areas
- Reduces NNSA need for additional federal staff and provides flexibility to changes in demand

# Consider acquiring federal personnel resources from other federal agencies such as USACE or NAVFAC

 Expands on existing practices of employing other federal agencies to provide specific project management services (USACE at Savannah River – PDCF)

#### **Office of Environmental Management**

#### Delay new project starts

 Wait to initiate projects until adequate resources are available to provide the necessary oversight; assign more personnel to fewer projects

#### ✤ Reallocate personnel to focus on areas/projects of greatest need

- Transfer/assign EM personnel to specific projects for an established period of time
- If EM personnel are not available, consider transfer/assignment of personnel from other Program Offices

#### Fund federal oversight from project budget either by individual project or from a pooled funding from several Program projects

- Applicable to EM sites with multiple ongoing large projects
- Appropriate for large projects with high total project costs and longer schedules

#### **♦** Augment EM federal personnel with support service contractors

- Provides for a quick solution to address staffing needs in specific areas
- Reduces EM need for additional federal staff and provides flexibility to changes in demand

# Consider acquiring federal personnel resources from other federal agencies such as USACE and NAVFAC

 Expands on existing practices of employing other federal agencies to provide specific project management services (USACE at Savannah River – PDCF)

More detailed analysis and planning is required, particularly in NNSA and EM, in order to implement several of these resource alternatives. Addressing the need to improve both the number (and qualifications) of federal personnel will involve implementation of several of these alternatives. Success will require building upon the already effective programs such as the Project Management Career Development Program (PMCDP) and the Acquisition Career Development Program (ACDP). Expanding the core principles of both these programs to include Integrated Project Teams (IPTs) will be further evaluated. These programs, as well as their associated performance incentives, are crucial to the continuous improvement of DOE contract and project management performance.

These alternatives are not mutually exclusive. Depending on the specific project and site conditions, one or more of these alternatives may be used to optimize federal project staffing. While some of these alternatives are not optimal and may not fully address previously identified concerns regarding DOE's federal oversight of projects, they represent immediate, incremental steps towards improving DOE contract and project management and oversight and therefore deserve consideration.

For the past several years DOE has been criticized for a lack of federal oversight regarding contract and project management. For the first time in the Department's history, using input received from other federal agencies with decades of experience, DOE has developed a staffing model to identify more appropriate levels of federal oversight and to objectively defend recommended levels. The DOE staffing model has been developed by considering the specific characteristics unique to DOE projects as well as the Departmental business model of relying on site management and operating contractors (some of which are non-profit organizations) to execute projects. As a result, the DOE-developed model varies from the staffing models used by NAVFAC and USACE.

The efforts described herein are another set of activities in a long list of initiatives to improve DOE contract and project management. The initiative undertaken by the corrective measure team represented an aggressive schedule and timeline. More activities will be conducted to improve the federal staffing levels of DOE projects. The following sections identify some of the observations from the corrective measure team and recommended actions to continue the progress to date.

## 6.1 **OBSERVATIONS**

The following section represents some of the observations from the corrective measure team in reviewing DOE and other federal agency project staffing approaches. These observations are based on how DOE is currently determining the federal staffing of projects as well as the methods used by other federal agencies. Improving the federal staffing of DOE projects requires changes in a number of areas.

- More predictability in the federal staffing of DOE projects requires more consistency in project funding. The Department does not have significant flexibility in staffing of projects; therefore, more predictable funding improves the planning and staffing of projects.
- There needs to be less reliance on subjective judgment and more workload-based federal staffing of projects. This significantly increases the Department's credibility on resource allocation.

- There needs to be improved alignment between the discussion of how DOE projects should be staffed and how they are actually being staffed. A control mechanism needs to be implemented to ensure recommended staffing levels are being adequately addressed.
- Improved clarification of DOE Headquarters, Site or Field Office, and contractor roles and responsibilities and adherence to the defined roles and responsibilities can improve staffing decisions. Also, a more consistent determination and application of functions identified as most appropriately performed by federal personnel is essential.
- A more uniform staffing of the Integrated Project Team (IPT) by established functional areas with clearly defined roles and responsibilities improves the Department's leadership and ownership role for the project.
- An integrated personnel system that provides a comprehensive inventory of personnel resources by function and capability is essential. A Department-wide inventory by function and skills is required in addition to the inventory by job series. This aligns and integrates critical skills gap analyses, optimal contract and project management staffing, competencies and training, and succession planning taking into account attrition and loss of critical skills through retirements.
- ✤ A more robust financial system that captures personnel resources that are applied to specific work and projects is necessary. Not only does this improve accountability, but it advances the projectization of DOE work and provides a means to capture important data for future analysis.

Real, measurable, and sustainable improvement in project performance and federal project staffing requires considering the above observations.

# 6.2 RECOMMENDED ACTIONS

The following is a list of recommended actions to further develop and improve the federal staffing of DOE projects.

Begin to use the staffing model (or an acceptable substitute) across the DOE complex. Use the staffing model to enhance ownership and further improve the resulting staffing levels recommended for projects.

- Continued dialogue with NAVFAC, USACE, and the Construction Industry Institute for the purposes of gathering additional information and data for future model refinement will strengthen ongoing activities.
- Continue to review and assess the model and use the results to forecast the projected staffing. Compare and contrast the projections with existing personnel resources on successful and challenging projects and make adjustments as necessary.
- Evaluate the resource alternatives to optimize the federal staffing of projects. Work with OMB, Congress, and other stakeholders to establish the effective implementation of selected alternatives.
- Based on their annual volume of work, conduct further in depth analysis for appropriate NNSA and EM resource plans, including funding federal oversight through the project budget.
- Use the model in independent project reviews and external independent reviews to benchmark staffing. Compare actual to recommended staffing ranges for projects reviewed and highlight findings.

The DOE staffing model is complete. As a result, the Department can do a more effective review of project execution plans and the associated federal staffing levels of projects of varying type, size and complexity. The newly established staffing model will initially be used in independent project reviews (IPRs) by Program Offices and external independent reviews (EIRs) by the Office of Engineering and Construction Management to evaluate and compare the level and composition of federal staffing on projects. Subsequent use of the model will include recommended federal staffing levels in support of future Program and project budget requests.

These actions, along with the progress to date, should go a long way towards improving the federal staffing of DOE projects, improving the oversight of these projects, and ultimately improving the contract and project management performance of the projects which remains the primary goal.

# Appendix A Corrective Measure 2 Summary

#### CORRECTIVE MEASURE 2

Develop and implement a comprehensive federal staffing plan, with an associated resource plan, to recruit, develop, and retain the optimum contract and project management federal workforce.

<b><u>Issue</u>:</b> DOE does not have an adequate number of federal con- tracting and project management personnel with the appropriate skills (e.g., cost estimating, scheduling, risk management, and technical) to plan, direct, and oversee project execution.	<ul> <li><u>Root Causes:</u></li> <li>Insufficient budget resources</li> <li>Conflicting and competing priorities</li> <li>Inferior federal government compensation compared to the private sector</li> <li>Inadequate roles and responsibilities definition</li> <li>Inadequate training</li> </ul>			
<b>Organizational Sponsor:</b> Pete Check Deputy Director Office of Engineering and Construction Management Office of Management	Supporting Organizations:Office of Environmental ManagementNational Nuclear Security AdministrationOffice of Human Capital ManagementOffice of Chief Financial OfficerOffice of Under Secretary or Other Program Office Rep(e.g., RW, EE, NE, FE)Office of Procurement and Assistance Management			
<ul> <li>Identify the number, qualifications, and skills req</li> <li>Develop a resource plan to acquire additional fed</li> <li>Review appropriate personnel compensation ince</li> <li>Analyze and recommend revisions to the existing</li> <li>Clearly define and document the roles, responsible project management personnel.</li> <li>Identify and implement contract and project management personnel.</li> </ul>	nt personnel and organization. actions and personnel in other federal agencies. onnel resources needs assessment. arks, results of needs assessment, and current baseline. uired of additional personnel by organization. eral personnel, if applicable. entives and encourage their use, where appropriate. a contract and project management staffing structure. ilities, authority, and accountability for all contract and			
Impediments/Challenges:         • Competing Departmental priorities and change in Administration         • Re-allocation of necessary budget and personnel resources         • Organizational culture and resistance to change				
<ul> <li><u>Accomplishments to Date:</u></li> <li>EM "Best in Class" initiative; an EM initiative to prove EM contract and project management</li> <li>DOE Acquisition Career Management Program f tifying contract managers and contracting officer resentative (COR)</li> <li>Project Management Career Development Program</li> </ul>	<ul> <li>Recruit additional federal staff, as needed</li> <li>Enhancement to training programs</li> <li>Re-allocation of resources, as appropriate</li> <li>Stakeholders support and approval</li> </ul>			

#### CORRECTIVE MEASURE 2

# Develop and implement a comprehensive federal staffing plan, with an associated resource plan, to recruit, develop, and retain the optimum contract and project management federal workforce.

- Contracting competency/resource gap analyses across the complex
- Targeted training delivered across the complex

#### **Expected Outcomes/Key Success Measures:**

- Outcome: Fully staffed, right-sized federal contract and project management organization.
- Metric: By the end of FY 2011 and 2012, 90% of DOE capital asset line item projects and 90% of EM cleanup projects, respectively, will meet their overall performance baseline goals.
- Metric: By the end of FY 2011, federal contract and project management positions (based on new model) are staffed at 80% of the desired level.
- Metric: By the end of FY 2011, 95% of projects have certified FPDs no later than CD-1.
- Metric: By the end of FY 2011, 90% of projects have FPDs certified <u>at the appropriate level</u> assigned to projects no later than CD-3.
- Metric: By the end of FY 2011, 85% of the 1102 contracting series will be certified.

The corrective measure team conducted a series of regression analyses on the staffing data submitted for the 92 projects. The regression analyses conducted included the relationship between federal full time equivalent (FTE) staffing and fiscal year 2008 (FY08) project value based on specific project factors. The following summarizes the regressions analyses performed.

- Regression analysis for all 92 projects in the staffing study
- Regression analysis by Program Office
- Regression analysis by project type
- Regression analysis by Program Office and project type
- Regression analysis by project complexity
- Regression analysis by project value
- Regression analysis by project phase
- Regression analysis by project type and project phase

Each of these regression analyses is included in this Appendix with summary tables followed by regression charts. Several of the regressions included sample sizes (n values) of less than 20 which typically is not representative.

<b>Regression Analysis For All 92 Projects In The Staffing Study</b>					
Grouping	n	$\mathbb{R}^2$			
All 92 DOE Projects	92	0.48			

Regression Analysis By Program Office					
Grouping	n	$\mathbb{R}^2$			
NNSA	25	0.63			
SC	17	0.54			
EM	50	0.40			

Regression Analysis By Project Type						
Grouping	n	$\mathbb{R}^2$				
Construction	39	0.75				
MIE	7	0.13				
D&D	16	0.67				
ER	30	0.13				

Regression Analysis By Program Office And Project Type				
Grouping	n*	R <sup>2</sup>		
NNSA – Construction	25	0.63		
Science – Construction	9	0.67		
EM – Construction	5	0.67		
Science – MIE	7	0.13		
EM – ER	30	0.13		
EM – D&D	15	0.66		

\* Total equals 91 because there was only one Science – D&D Project and it was not included.

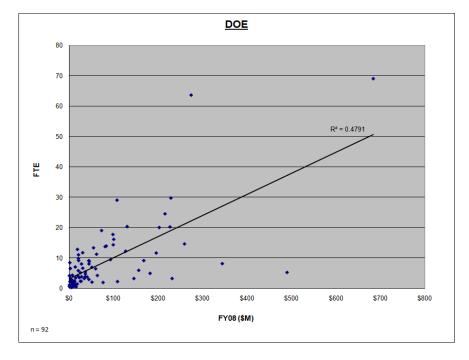
<b>Regression Analysis By Project Complexity</b>					
Grouping	n	R <sup>2</sup>			
Low	60	0.61			
Medium	28	0.10			
High	4	0.93			

Regression Analysis By Project Value					
Grouping	n	$\mathbf{R}^2$			
Small	28	0.08			
Small-Medium	31	0.06			
Medium-Large	19	0.07			
Large	12	0.09			
X-Large	2	1			

Regression Analysis By Project Phase		
Grouping	n	$\mathbf{R}^2$
CD-0	7	0.04
CD-1	11	0.21
CD-2	10	0.22
CD-3	64	0.47
CD-2 & CD-3	74	0.46

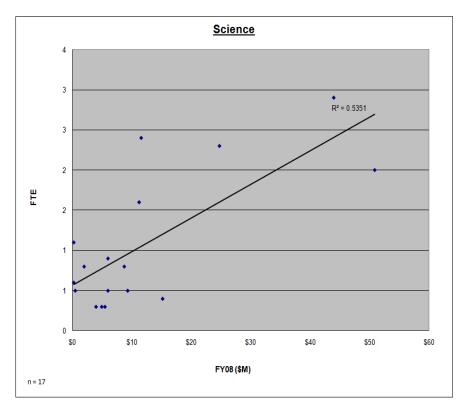
Regression Analysis By Project Type And Project Phase		
Grouping	n*	$\mathbf{R}^2$
Construction – CD-0	6	0.01
Construction – CD-1	8	0.12
Construction – CD-2	8	0.87
Construction – CD-3	17	0.84
MIE – CD-1	3	0.96
D&D - CD-3	16	0.67
ER – CD-3	29	0.13

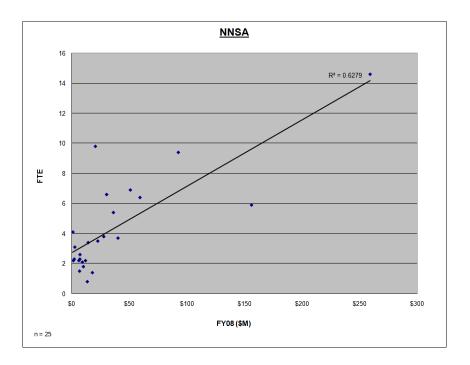
\* Total equals 87 because there were five Groupings with only one project each.

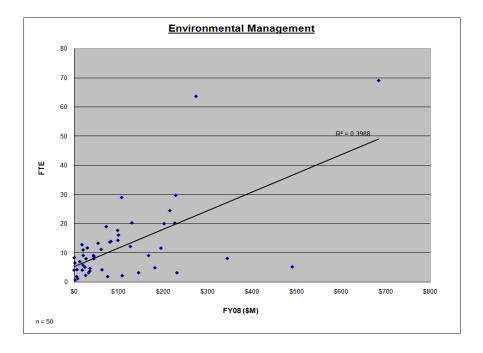


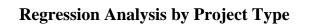
**Regression Analysis for All 92 Projects in the Staffing Study** 

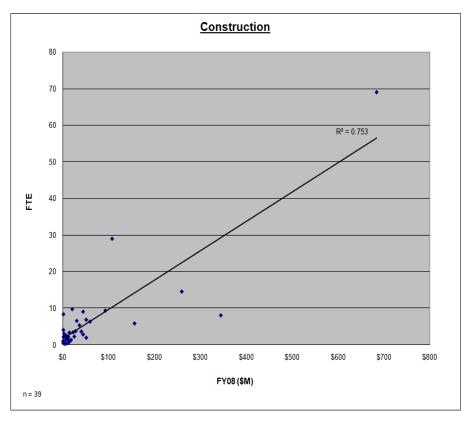
#### **Regression Analysis by Program Office**

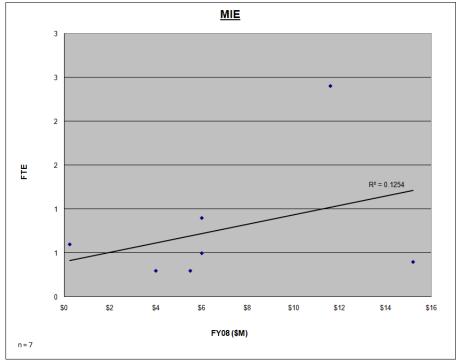


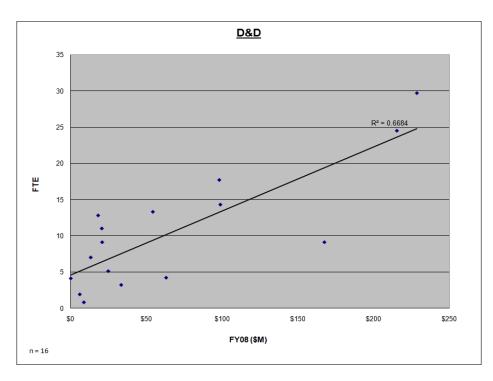


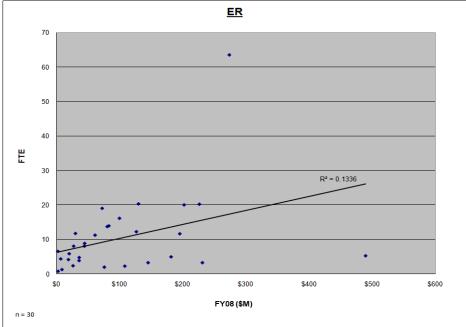


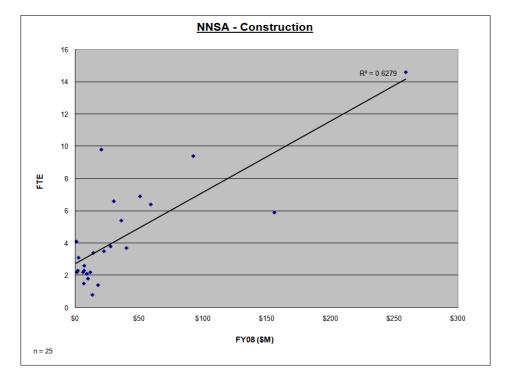




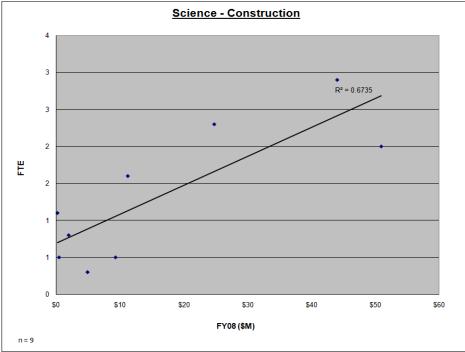


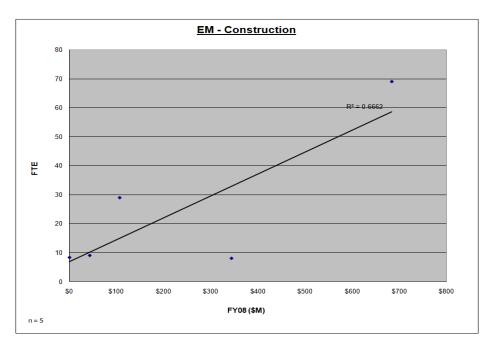


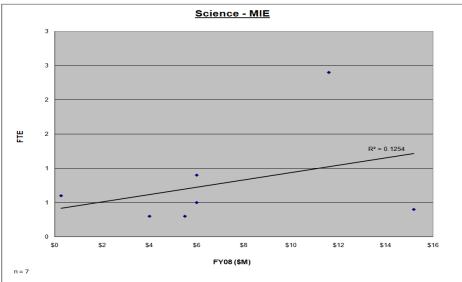


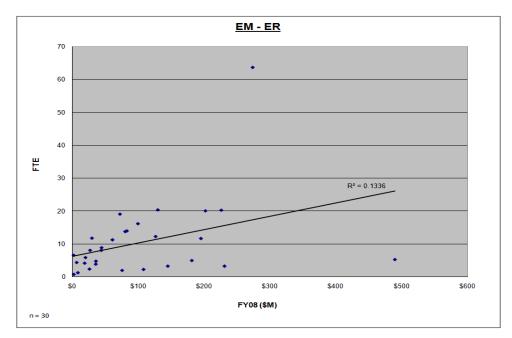


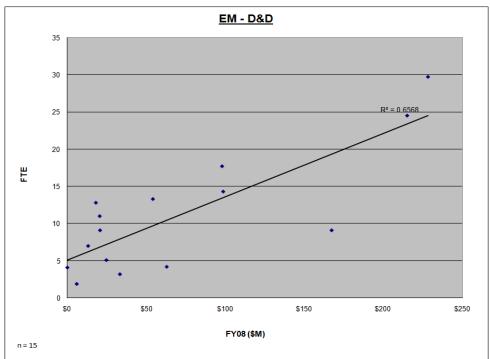
**Regression Analysis by Program Office and Project Type** 



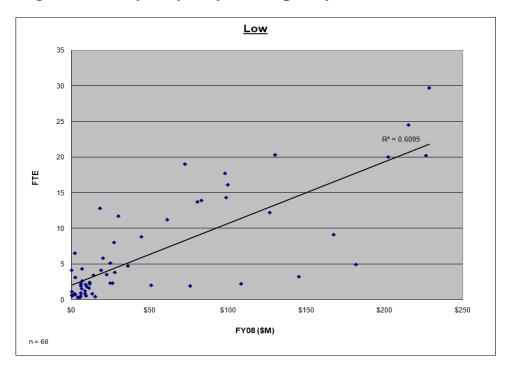


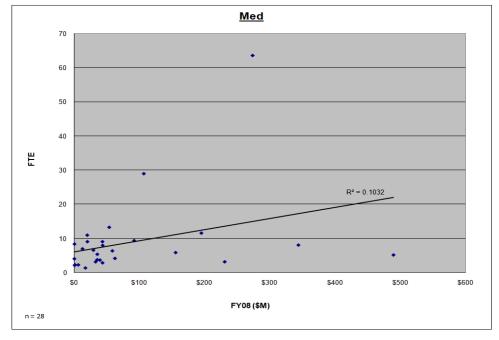


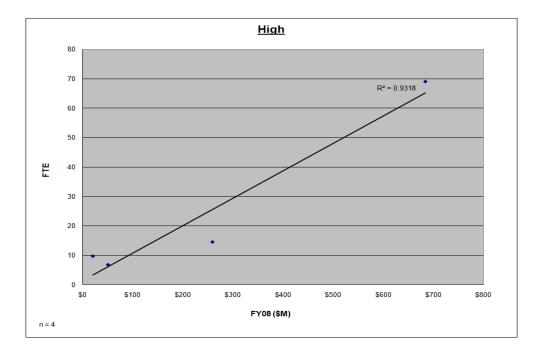




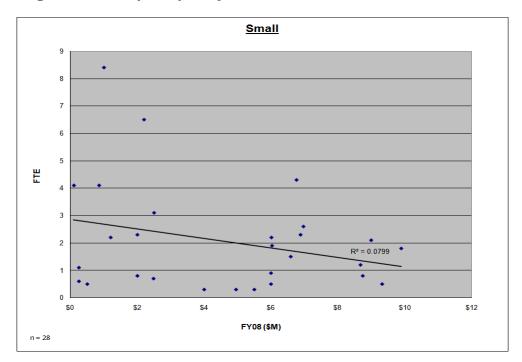
**Regression Analysis by Project Complexity** 

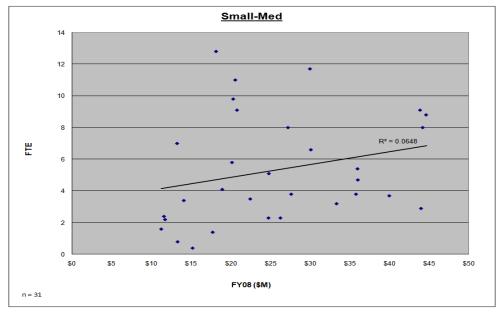


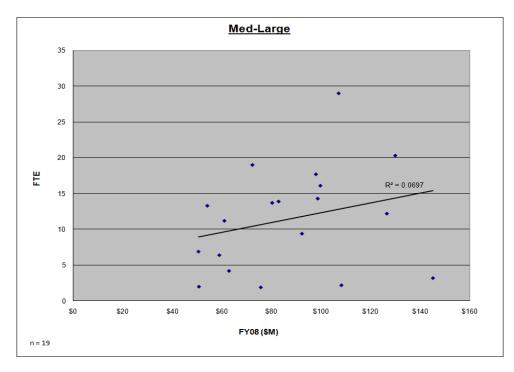


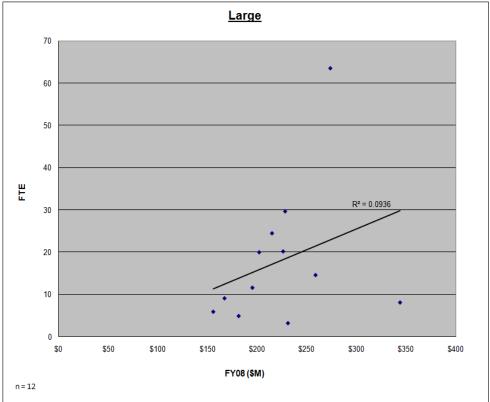


**Regression Analysis by Project Value** 

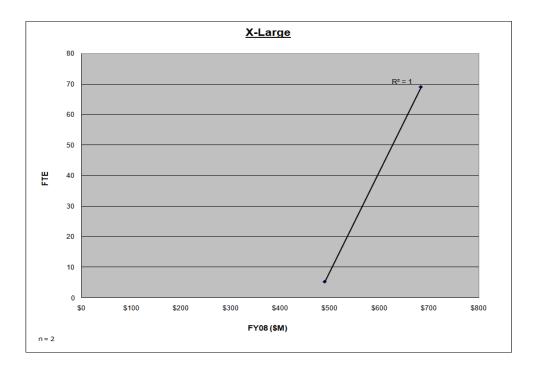




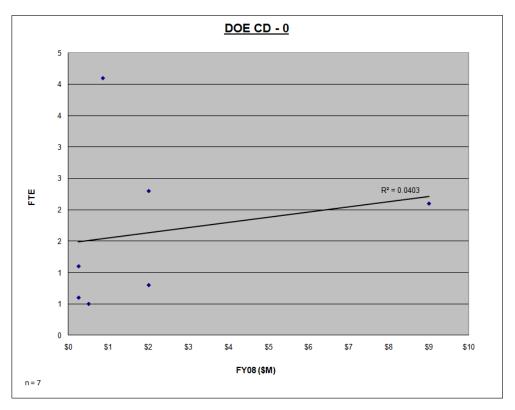


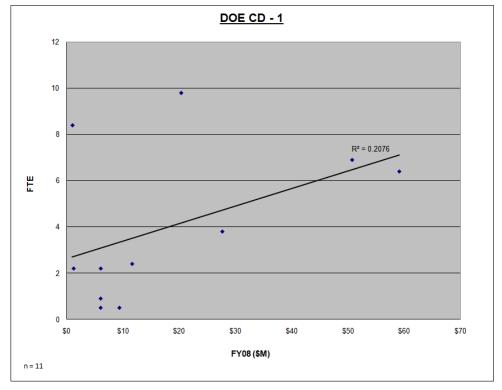


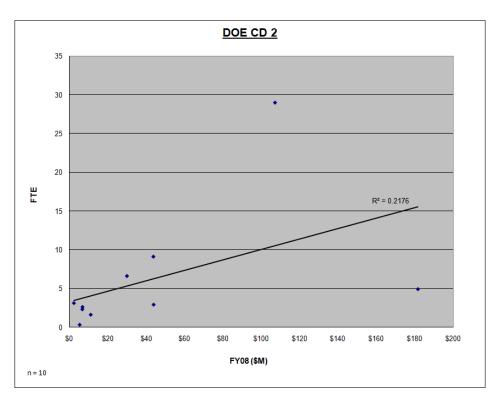
B-15

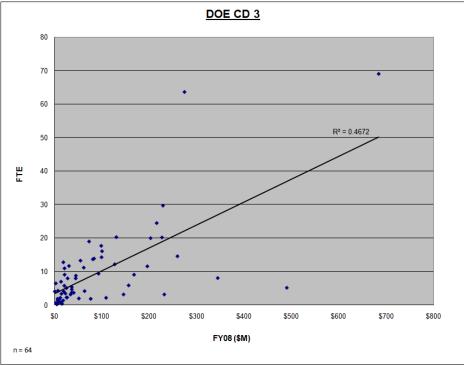


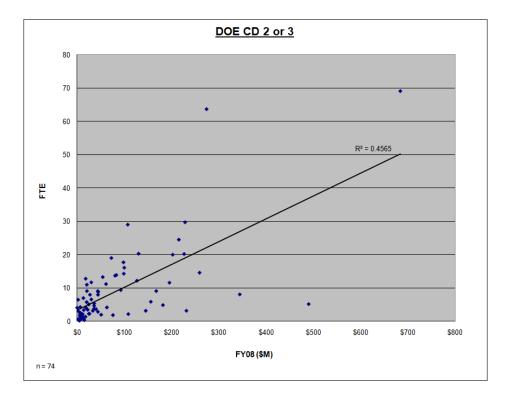


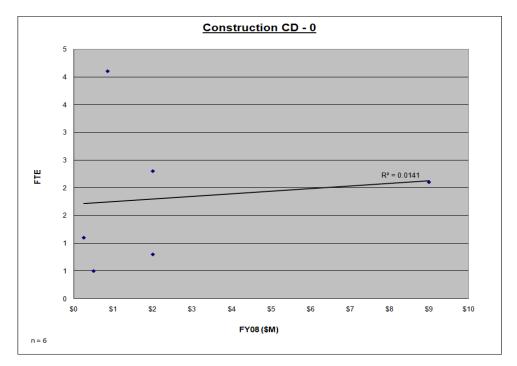




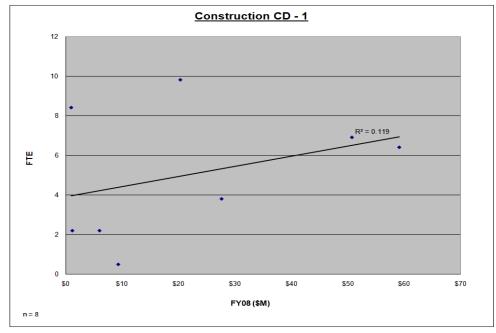


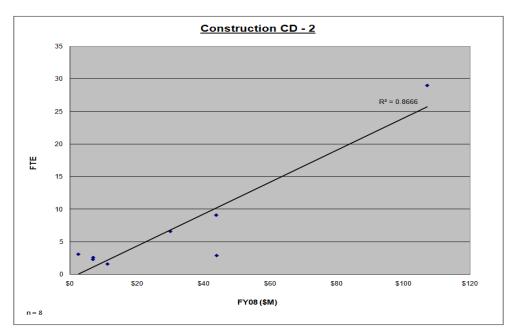


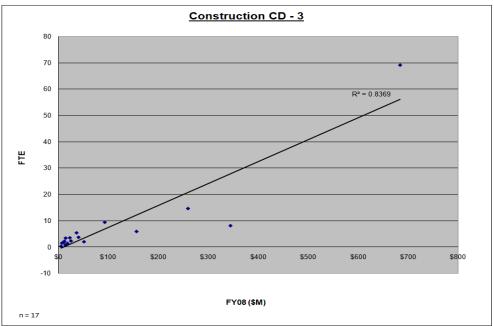


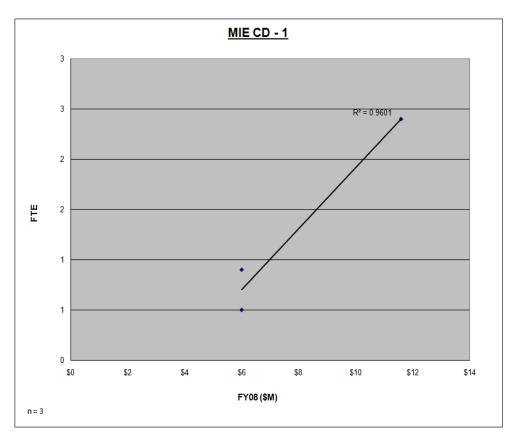


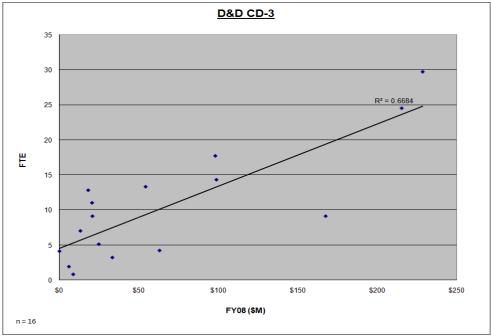
**Regression Analysis by Project Type and Project Phase** 

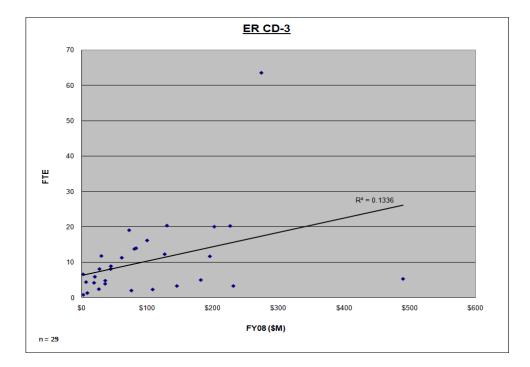












A sensitivity analysis was conducted for each Program Office project in the staffing study. This sensitivity analysis included productivity factors ranging from \$5M/FTE to \$20M/FTE in increments of \$2.5M/FTE. A total of seven scenarios were evaluated at the site level for each of the three Program Offices, and at the project level within the three Program Offices.

The factors outlined in Figure 4.3-1 of report were used as input to the model. Using the FY08 funding numbers associated with each project (from the data call), the productivity factor was varied to gauge the sensitivity.

	~		
	ctor (\$M/FTE	17.5	85.1
	oductivity Fao	15.0	99.3
	Staffing Model Projection For Various Productivity Factor (\$M/FTE)	12.5	119.1
ed	el Projection F	10.0	148.9
lel Results – Without Gap Displayed	Staffing Mode	7.5	198.6
– Without (		5.0	297.8
<b>fodel Results</b>	DOE Federal FTE From	Data Call	108.0
Summary Mod	Program		NNSA

	20.0	74.5	14.8
tor (\$M/FTE)	17.5	85.1	16.9
Staffing Model Projection For Various Productivity Factor (\$M/FTE)	15.0	99.3	19.7
or Various Pr	12.5	119.1	23.6
el Projection F	10.0	148.9	29.5
Staffing Mode	7.5	198.6	39.4
	5.0	297.8	59.1
DOE Federal & Support	Contractor FTE From Data Call	116.4	21.2
	Program	VSNN	SC

#### SUMMARY RESULTS Summary Model Results – Without Gan Disnlaved

435.3

497.5

580.4

696.4

870.5

1,160.7

1,741.1

788.6

Ш

SC

ΕM

435.3

497.5

580.4

696.4

870.5

1,160.7

1,741.1

602.9

74.5

14.8

16.9

19.7

23.6

29.5

39.4

59.1

18.2

20.0

Displayed
Gap
With
Results –
Model
Summary

Staffing Model Projection For Various Productivity Factor (\$M/FTE)	15.0 17.5 20.0		Gap FTE	Gap FTE (22.9) 74.5	Gap         FTE           (22.9)         74.5           (1.3)         14.8
			Gap FTE Gap FTE Gap FTE	FTE         Gap         FTE           1         99.3         (8.7)         85.1	D         FTE         Gap         FTE           1         99.3         (8.7)         85.1           19.3         1.5         16.9
5 15.0		Gap FTE Gap		40.9 119.1 11.1 99.3 (8.7)	11.1         99.3         (8.7)           5.4         19.7         1.5
12.5		FTE Gap		119.1 11.1	119.1         11.1           23.6         5.4
-		Gap F	100	- t	11.3
	10.0		148.9		
	10	Gap FTE	90.6		21.2
	7.5	FTE	198.6		39.4
	0	Gap FTE	189.8		40.9
	5.0	FTE	297.8		59.1
Federal	FTE From Data	Call	108.0		18.2
	Program		NNSA		SC

	DOE Fed- eral & Sup-		Ω.	Staffing Model Projection For Various Productivity Factor (\$M/FTE)	Aodel P	rojecti	on For	Vario	us Pro	ductiv	rity Fac	stor (\$I	M/FTE)		
Program	port Contractor FTE From	5.0	0.	7.5	ى د	10.0	0.	12.5	ъ	15	15.0	12	17.5	2(	20.0
	Data Call	FTE	Gap	FTE	Gap	FTE	Gap	FTE	Gap	FTE	Gap	FTE	Gap	FTE	Gap
NNSA	116.4	297.8	181.4	198.6	82.2	148.9	32.5	119.1	2.7	99.3	(17.1)	85.1	85.1 (31.3)	74.5	(41.9)
sc	21.2	59.1	37.9	39.4	18.2	29.5	8.3	23.6	2.4	19.7	(1.5)	16.9	(4.3)	14.8	(6.4)
EM	788.6	1,741.1	952.5	1,160.7	372.1	870.5	81.9	696.4	(92.2)	580.4	696.4 (92.2) 580.4 (208.2)		497.5 (291.1)	435.3	(353.3)

Program / Site Office / Project	EYOR ŚM	EYO8 \$M EYO8 Fed ETEs		FTEs - Model	FY08 Gan	Pct Diff
			FY08 Fed FTEs)	Projection		
DOE	\$6,436.4	729.1	8.8	525.1	(204.0)	-28%
NNSA	\$902.6	108.0	8.4	74.5	(33.54)	-31%
Livermore	\$36	5.4	6.7	2.2	(3.20)	-59%
Los Alamos	<b>\$197</b>	30.3	6.5	17.8	(12.50)	-41%
Nevada	\$47	5.2	9.0	3.2	(1.98)	-38%
Pantex	\$27	6.3	4.2	2.0	(4.32)	%69-
Sandia	\$26	5.7	4.5	1.3	(4.38)	-77%
Office of Site Engineering and Construction Management NA-262	<b>\$259</b>	14.6	17.7	23.6	9.03	62%
Savannah River	<b>\$</b> 81	13.5	6.0	8.5	(5.01)	-37%
Y-12	\$231	27.0	8.5	15.8	(11.18)	-41%
sc	\$205	18.2	11.3	15.4	(2.81)	-15%
Berkeley	\$20	2.2	9.0	1.3	(0.89)	-41%
Brookhaven	\$45	3.4	13.1	3.7	0.25	7%
Fermi	\$17	2.7	6.3	1.6	(1.13)	-42%
Oak Ridge	<b>\$</b> 31	2.0	15.4	2.6	0.56	28%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	1.5	(0.78)	-34%
Stanford Linear Accelerator	\$57	2.9	19.6	3.8	0.88	30%
Thomas Jefferson	\$12	2.7	4.3	1.0	(1.69)	-63%
EM	\$5 <b>,</b> 329	602.9	8.8	435.3	(167.63)	-28%
Brookhaven	<b>\$</b> 25	5.1	4.9	1.8	(3.30)	-65%
Carlsbad	<b>\$160</b>	32.0	5.0	11.8	(20.20)	-63%
Idaho	\$949	55.4	17.1	76.8	21.37	39%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	1.0	(5.97)	-85%
Livermore	<b>\$</b> 9	1.2	7.2	0.6	(0.56)	-47%
Los Alamos	<b>\$</b> 381	26.4	14.4	28.2	1.81	7%
Nevada	\$100	21.1	4.8	7.4	(13.71)	-65%
Oak Ridge	\$435	80.0	5.4	36.0	(43.98)	-55%
Oakland	<b>\$18</b>	12.8	1.4	1.3	(11.48)	%06-
Office of River Protection	<b>\$958</b>	132.6	7.2	94.2	(38.39)	-29%
Pantex	\$26	2.3	11.4	1.9	(0.36)	-16%
Portsmouth/Paducah	<b>\$283</b>	35.0	8.1	22.5	(12.46)	-36%
Richland	\$83 <b>1</b>	120.9	6.9	60.9	(60.02)	-50%
Sandia	<b>\$</b> 2	0.7	3.5	0.2	(0.52)	-74%
Savannah River	\$1,102	65.7	16.8	87.9	22.20	34%
UMTRA	\$36	4.7	1.1	2.7	(2.04)	-43%

Productivity Factor At \$20.0M/FTE

APPLICATION OF THE STAFFING MODEL TO FY2008 DATA AT VARYING PRODUCTIVITY FACTORS

### Productivity Factor At \$17.5M/FTE

Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
DOE	\$6,436.4	729.1	8.8	600.1	(129.0)	-18%
NNSA	\$90 <b>2</b> .6	108.0	8.4	85.1	(22.90)	-21%
Livermore	<b>\$</b> 36	5.4	6.7	2.5	(2.88)	-53%
Los Alamos	\$197	30.3	6.5	20.3	(96.6)	-33%
Nevada	<b>\$47</b>	5.2	0.0	3.7	(1.52)	-29%
Pantex	\$27	6.3	4.2	2.3	(4.04)	-64%
Sandia	\$26	5.7	4.5	1.5	(4.19)	-74%
Office of Site Engineering and Construction Management NA-262	\$259	14.6	17.7	27.0	12.41	85%
Savannah River	\$81	13.5	6.0	9.7	(3.79)	-28%
Y-12	<b>\$</b> 231	27.0	8.5	18.1	(8.92)	-33%
					-	
sc	\$205	18.2	11.3	17.6	(0.61)	-3%
Berkeley	\$20	2.2	9.0	1.5	(0.71)	-32%
Brookhaven	\$42	3.4	13.1	4.2	0.77	23%
Fermi	\$17	2.7	6.3	1.8	(06.0)	-33%
Oak Ridge	<b>\$</b> 31	2.0	15.4	2.9	0.92	46%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	1.7	(0.57)	-25%
Stanford Linear Accelerator	<b>2</b> 5\$	2.9	19.6	4.3	1.42	49%
Thomas Jefferson	<b>\$12</b>	2.7	4.3	1.2	(1.55)	-57%
EM	\$5,329	602.9	8.8	497.5	(105.45)	-17%
Brookhaven	<b>\$</b> 25	5.1	4.9	2.1	(3.04)	-60%
Carlsbad	<b>\$160</b>	32.0	5.0	13.5	(18.51)	-58%
Idaho	\$949	55.4	17.1	87.7	32.33	58%
Knolls Atomic Power Laboratory SPRU	\$13	7.0	1.9	1.2	(5.83)	-83%
Livermore	\$9	1.2	7.2	0.7	(0.47)	-39%
Los Alamos	\$38 <b>1</b>	26.4	14.4	32.2	5.83	22%
Nevada	\$100	21.1	4.8	8.5	(12.65)	-60%
Oak Ridge	\$435	80.0	5.4	41.2	(38.84)	-49%
Oakland	<b>\$18</b>	12.8	1.4	1.5	(11.30)	-88%
Office of River Protection	\$958	132.6	7.2	107.7	(24.93)	-19%
Pantex	<b>\$</b> 26	2.3	11.4	2.2	(60.0)	-4%
Portsmouth/Paducah	\$283	35.0	8.1	25.8	(9.24)	-26%
Richland	\$83 <b>1</b>	120.9	6.9	69.69	(51.32)	-42%
Sandia	\$2	0.7	3.5	0.2	(0.49)	-70%
Savannah River	\$1,102	65.7	16.8	100.5	34.75	53%
UMTRA	\$36	4.7	1.1	3.0	(1.66)	-35%

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Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
DOE	\$6,436.4	729.1	8.8	700.2	(28.9)	-4%
NNSA	\$90 <b>2</b> .6	108.0	8.4	99.3	(8.72)	-8%
Livermore	\$36	5.4	6.7	2.9	(2.46)	-46%
Los Alamos	\$197	30.3	6.5	23.7	(6.57)	-22%
Nevada	\$47	5.2	0.0	4.3	(0.01)	-17%
Pantex	\$27	6.3	4.2	2.6	(3.67)	-58%
Sandia	\$26	2:3	4.5	1.8	(3.94)	%69-
Offlice of Site Engineering and Construction Management NA-262	\$259	14.6	17.71	31.5	16.91	116%
Savannah River	<b>\$</b> 81	13.5	6.0	11.3	(2.18)	-16%
Y-12	<b>\$231</b>	27.0	8.5	21.1	(5.91)	-22%
sc	<b>\$205</b>	18.2	11.3	20.5	2.32	13%
Berkeley	\$20	2.2	0.9	1.7	(0.46)	-21%
Brookhaven	\$45	3.4	13.1	4.9	1.47	43%
Fermi	\$17	2.7	6.3	2.1	(09.0)	-22%
Oak Ridge	<b>\$</b> 31	2.0	15.4	3.4	1.41	70%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	2.0	(0.28)	-12%
Stanford Linear Accelerator	\$57	2.9	19.6	5.0	2.14	74%
Thomas Jefferson	\$12	2.7	4.3	1.3	(1.35)	-50%
EN	¢£ 370	602.9	8.8	580.4	(22 54)	%V-
Brookhaven	\$25			2.4	(2.70)	-53%
Carlsbad	\$160			15.7	(16.27)	-51%
Idaho	\$949	55.4	17.1	102.4	46.96	85%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	1.4	(5.63)	-80%
Livermore	6\$	1.2	7.2	0.9	(0.35)	-29%
Los Alamos	<b>\$</b> 381	26.4	14.4	37.6	11.21	42%
Nevada	\$100	21.1	4.8	9.9	(11.24)	-53%
Oak Ridge	\$435	80.0	5.4	48.0	(31.98)	-40%
Oakland	<b>\$18</b>	12.8	1.4	1.8	(11.04)	-86%
Office of River Protection	<b>\$</b> 958	132.6	7.2	125.6	(6.98)	-5%
Pantex	<b>\$</b> 26	2.3	11.4	2.6	0.28	12%
Portsmouth/Paducah	<b>\$283</b>	35.0	8.1	30.0	(4.95)	-14%
Richland	\$831	120.9	6.9	81.2	(39.73)	-33%
Sandia	\$2	0.7	3.5	0.2	(0.46)	-65%
Savannah River	\$1,102	65.7	16.8	117.2	51.50	78%
UMTRA	<b>\$</b> 36	4.7	1.1	3.5	(1.16)	-25%

### Productivity Factor At \$12.5M/FTE

D0E         5         4.03.1         9.03         6.1           NNSA         500.2.6         108.0         8.4           NNSA         590.2.6         108.0         8.4           I connent         5.90.2.6         108.0         8.4           I cons Alamos         5.90         5.9         9.0         8.4           I cons Alamos         5.90         5.0         7.4         7.5           Satistic of Site Engineering and Construction Management NA-262         5.35         7.1         4.2           Satistic of Site Engineering and Construction Management NA-262         5.35         7.13         7.10         8.1           Satistic of Site Engineering and Construction Management NA-262         5.33         7.13         7.1         7.1           Satistic of Site Engineering and Construction Management NA-262         5.33         7.1         7.1         7.1         7.1           Satistic	Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
\$902.6         108.0         8.4           536         5.4         6.7           547         5.3         5.5           547         5.3         5.5           547         5.3         4.5           547         5.3         4.5           548         5.3         4.5           549         5.3         4.5           541         2.21         4.5           542         5.31         2.10         8.5           543         5.31         2.10         8.5           544         5.31         2.10         8.5           545         5.31         2.10         8.5           545         3.41         3.11         4.5           545         3.41         3.11         4.3           545         3.41         2.11         4.3           546         5.13         2.21         4.3           547         543         3.11         4.3           548         543         3.41         4.3           549         543         3.41         4.3           540         543         2.43         4.3           541         54	DOE	\$6,436.4	729.1	8.8	840.2	111.1	15%
(5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)         (5)           (5)         (5)         (5)         (5)           (5)         (	NNSA	\$902.6	108.0	8.4	119.1	11.14	10%
(1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1)         (1) <td>Livermore</td> <td>\$36</td> <td></td> <td>6.7</td> <td>3.5</td> <td>(1.87)</td> <td>-35%</td>	Livermore	\$36		6.7	3.5	(1.87)	-35%
§47         5.2         9.0           ineering and Construction Management NA-262         559         14.5         4.5           ineering and Construction Management NA-262         559         14.6         17.1           ineering and Construction Management NA-262         559         14.6         17.1           ineering and Construction Management NA-262         559         14.6         17.1           ineering and Construction Management NA-262         529         17.3         8.5           ineering and Construction Management NA-262         529         17.3         8.5           ineering and Construction Management NA-262         529         17.3         8.5           ineering and Construction Management NA-262         523         17.3         8.5           ineering and Construction Management NA-262         523         2.4         17.1           ineering and Construction Management NA-262         53.3         10.8         55.4           ineering and Construction Name         55.3         2.3         10.8         55.4           ineering and Construction Name         55.3         52.3         10.4         55.4         17.1           ineering and Construction Name         53.3         55.4         17.1         55.4         17.1	Los Alamos	\$197	30.3	6.5	28.5	(1.82)	-6%
§27         6.3         4.2           intering and construction Management NA-262         \$5.1         4.5           \$5.1         \$5.2         13.5         6.0           \$5.1         \$5.3         31.3         6.0           \$5.2         \$5.3         31.3         6.0           \$5.2         \$5.3         27.0         8.5         6.0           \$5.3         \$5.3         27.0         8.5         6.0           \$5.3         \$5.3         27.0         8.5         9.0           \$5.4         \$5.3         \$5.4         13.1         9.0           \$5.5         \$5.3         \$5.4         13.1         9.0           \$5.5         \$5.3         \$5.4         13.1         9.0           \$5.5         \$5.3         \$5.4         13.1         9.0           \$5.5         \$5.3         \$5.4         13.1         9.0           \$5.5         \$5.3         \$5.4         \$5.4         13.1           \$5.5         \$5.3         \$5.3         \$5.4         13.1           \$5.5         \$5.3         \$5.4         \$1.1         14.5           \$5.5         \$5.3         \$5.4         \$1.1         14.5	Nevada	\$47	5.2	9.0	5.2	(0.05)	-1%
pre-ing and Construction Management MA-262         5259         14.6         17.7           incering and Construction Management MA-262         5299         14.6         17.7           incering and Construction Management MA-262         5295         14.6         17.7           incering and Construction Management MA-262         5295         14.6         17.1           incering and Construction Management MA-262         529         14.3         17.1           incering and Construction Management MA-262         529         14.3         17.1           incering Management MA-262         529         12.2         90.0         17.1           incering Management MA-262         529         2.3         10.8         17.1           incering Management MA-262         529         2.3         10.8         17.1           incering Management MA-262         529         2.3         10.8         17.1           incering Management MA-262         529         52.1         4.3         17.1           incering Management MA-262         52.3         10.8         17.1         17.1           incering Management MA-262         52.3         10.4         17.1         17.1           incering Management MA-262         52.3         12.1         17.1	Pantex	<b>\$</b> 27	6.3	4.2	3.2	(3.14)	-50%
Incering and Construction Management NA-262         \$239         14.6         17.7         17.8           incering and Construction Management NA-262         \$81         13.5         6.0         8.5           incering and Construction Management NA-262         \$81         13.15         6.0         8.5           incering and Construction Management NA-262         \$205         \$14.2         9.13         8.5           incering and Construction Name         \$205         \$2.2         9.0         9.0         8.5         9.13         8.5           incering and Construction Name         \$31         \$2.0         \$2.0         9.0         8.3         9.13         8.5         8.5         9.0         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5         8.5	Sandia	<b>\$</b> 26		4.5	2.1	(3.59)	-63%
(mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathef{mathh}mathef{mathh}mathef{mathef{mathef{mathef{mathef{mathef{mathef{m	Office of Site Engineering and Construction Management NA-262	<b>\$2</b> 59	14.6		37.8	23.21	159%
(323)         (327)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325)         (325) <th< td=""><td>Savannah River</td><td><b>\$81</b></td><td>13.5</td><td></td><td>13.6</td><td>0.09</td><td>1%</td></th<>	Savannah River	<b>\$81</b>	13.5		13.6	0.09	1%
\$205         18.2         11.3           \$5         \$2         2.2         9.0           \$5         \$3         3.4         13.1           \$5         \$31         2.0         9.0           \$5         \$31         2.0         15.4           \$5         \$31         2.0         15.4           \$5         \$2         2.3         10.8           \$5         \$5         2.3         10.8           \$5         \$5         2.3         10.8           \$5         \$5         \$2         3           \$5         \$5         \$1         4.3           \$5         \$5         \$1         4.3           \$5         \$1         \$1         4.9           \$5         \$1         \$1         4.9           \$5         \$1         \$1         4.9           \$5         \$1         \$1         \$1           \$6         \$2         \$1         \$1           \$6         \$2         \$1         \$1           \$6         \$1         \$2         \$1           \$6         \$2         \$1         \$1           \$6         \$2	Y-12	<b>\$</b> 231	27.0		25.3	(1.69)	-6%
500 $10.2$ $11.3$ $500$ $5.2$ $9.0$ $517$ $5.1$ $3.1$ $511$ $2.0$ $15.4$ $511$ $2.0$ $15.4$ $511$ $2.0$ $15.4$ $511$ $2.0$ $15.4$ $512$ $2.3$ $10.8$ $525$ $5.3$ $10.8$ $525$ $5.1$ $4.3$ $525$ $5.1$ $4.3$ $525$ $5.1$ $4.3$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $4.9$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$ $526$ $5.1$ $1.4$							
\$20         \$22         9.0           \$45         3.4         13.1           \$51         \$53         3.4         13.1           \$51         \$51         2.2         6.3           \$51         \$52         2.3         10.8           \$52         \$52         2.3         10.8           \$52         \$52         2.3         10.8           \$52         \$52         2.3         10.8           \$53         \$52         2.3         10.8           \$53         \$53         \$53         10.8           \$54         \$54         17.1         4.9           \$60.9         \$54         17.1         4.9           \$60         \$13         7.0         1.9           \$61         \$13         7.0         1.1           \$62         \$13         7.0         1.4           \$61         \$13         7.0         1.4           \$62         \$13         \$1.2         7.2           \$62         \$1.2         \$1.4         1.4           \$61         \$1.2         \$1.4         1.4           \$62         \$1.2         \$1.4         1.4 <tr< td=""><td>SC</td><td>\$205</td><td>18.2</td><td>11.3</td><td>24.6</td><td>6.42</td><td>35%</td></tr<>	SC	\$205	18.2	11.3	24.6	6.42	35%
\$45         3.4         13.1           \$11         2.7         6.3           \$11         2.7         6.3           \$11         2.7         6.3           \$11         2.7         6.3           \$11         2.7         6.3           \$11         5.2         19.6           \$12         5.1         2.1           \$12         5.1         2.3           \$13         5.1         2.3           \$14         5.1         4.3           \$15         5.1         2.3           \$15         5.1         4.3           \$15         5.1         4.3           \$15         5.1         4.3           \$15         5.1         4.3           \$16         5.3         5.1           \$17         5.1         7.2           \$17         5.1         7.2           \$16         5.3         1.1           \$17         5.1         7.2           \$17         5.1         7.2           \$17         5.1         5.1           \$17         5.1         5.1           \$17         5.1         5.1	Berkeley	<b>\$</b> 20			2.1	(0.11)	-5%
\$17         2.7         6.3           celerator         \$31         2.0         15.4           celerator         \$53         2.3         10.8           celerator         \$55         2.3         10.8           celerator         \$53         2.2         3.10.8           celerator         \$53         2.2         3.10.8           celerator         \$51         2.7         4.3           exclerator         \$52         5.1         4.3           exclerator         \$52         5.1         4.3           exclerator         \$53         5.1         4.3           wer laboratory SPRU         \$51         7.0         1.1           wer laboratory SPRU         \$1.1         7.0         1.4           wer laboratory SPRU         \$1.2         7.2         7.2	Brookhaven	\$45			5.8	2.44	72%
(31         2.0         15.4           (11)         \$25         2.3         10.8           (12)         \$57         2.3         10.8           (12)         \$57         2.3         10.8           (12)         \$57         2.1         4.3           (12)         \$55,33         602.9         8.8           \$55,33         \$55,4         17.1         4.9           \$55,33         \$55,4         17.1         4.9           \$55,4         \$55,4         17.1         4.9           \$56,9         \$55,4         17.1         4.9           \$56,9         \$55,4         17.1         4.9           \$510         \$510         \$51         17.3           \$611         \$53         \$52         5.1         4.4           \$621         \$53         \$26,4         14.4           \$610         \$53         \$26,4         14.4           \$610         \$53         \$21,1         4.8           \$610         \$610         \$610         5.4           \$610         \$610         \$610         5.4           \$610         \$628         \$213         \$14           \$	Fermi	\$17	2.7	6.3	2.5	(0.18)	-7%
(c)         \$25         2.3         10.8           (c)         \$57         2.9         19.6         19.6           (c)         \$51         2.3         19.6         19.6           (c)         \$51         2.3         19.6         19.6           (c)         \$533         602.9         8.8         8           \$533         \$533         602.9         8.8         8           \$549         \$55.4         17.1         4.9         17.1           wer Laboratory SPRU         \$160         32.0         5.0         1.9           wer Laboratory SPRU         \$133         7.0         1.1         4.9           wer Laboratory SPRU         \$133         7.0         1.1         4.9           wer Laboratory SPRU         \$133         7.0         1.1         4.9           wer Laboratory SPRU         \$133         7.0         1.1         4.8           wer Laboratory SPRU         \$133         7.0         1.1         4.8           wer Laboratory SPRU         \$133         \$143         1.1         4.8           wer Laboratory SPRU         \$143         \$126         1.1         4.8           wer Laboratory SPRU	Oak Ridge	<b>\$</b> 31	2.0		4.1	2.09	105%
vccelerator         \$57         2.9         19.6           vccelerator         \$12         2.7         4.3           vccelerator         \$53,329         602.0         8.8           \$53,329         602.0         8.8         8.8           vccalerator         \$53,329         602.0         8.8         8.8           vccaleratory         \$55,329         602.0         8.8         8.8           vccaleratory         \$160         32.0         \$5.0         17.1           vccaleratory         \$160         32.0         \$5.4         17.1           vectaboratory         \$13         7.0         1.19         1.19           vectaboratory         \$13         7.0         1.19         1.10           vectaboratory         \$13         2.6.1         1.14         1.14           vectaboratory         \$140         \$12.1         1.14         1.14           vectaboratory         \$538         132.6         7.2         1.14           vectaboratory         \$543         35.0         5.4         1.14           vectaboratory         \$543         35.0         5.4         1.14           vectaboraboraboraboraboraboraboraboraborabor	Pacific Northwest	<b>\$</b> 25			2.4	0.13	6%
•     \$12     2.7     4.3       •     \$5,329     60.2,9     8.8       \$5,329     60.2,9     8.8       \$5,539     60.2,9     8.8       \$5,530     5.1     4,9       \$6     \$100     5.0     5.0       wer Laboratory SPRU     \$160     32.0     5.0       wer Laboratory SPRU     \$100     5.1     4.9       \$6     \$381     7.0     1.9       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$381     26.4     1.4       \$6     \$383     35.0     1.4       \$6     \$6.7<	Stanford Linear Accelerator	\$57	2.9		6.0	3.14	108%
n         \$5,320         60.0.9         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.8         8.9         8.5         5.1         4.9         9.9         9.5         9.9         9.5         9.0         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9         9.9	Thomas Jefferson	<b>\$12</b>	2.7	4.3	1.6	(1.08)	-40%
(5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5)         (5) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
In         \$25         5.1         4.9           intermediation         \$160         32.0         5.0           mic Power Laboratory SPRU         \$131         7.0         5.0           mic Power Laboratory SPRU         \$13         7.0         1.9           mic Power Laboratory SPRU         \$13         7.0         1.9           s         \$381         7.0         1.9         7.0           s         \$381         26.4         14.4         7.0           s         \$381         26.4         14.4         7.0           s         \$381         26.3         12.4         4.8           intermediation         \$381         26.4         14.4           intermediation         \$381         12.6         7.2           intermediation         \$383         132.6         7.2           intermediation         \$255         2.3         11.4           intermediation         \$283         35.0         8.1           intermediation         \$283         35.0         8.1           intermediation         \$283         35.0         8.1           intermediation         \$283         3.1         4.8           in	EM	\$5,329	602.9	8.8	696.4	93.54	16%
\$160         32.0         5.0           mic Power Laboratory SPRU         \$949         55.4         17.1           mic Power Laboratory SPRU         \$13         7.0         1.9           s         \$341         7.0         1.9         1.9           s         \$381         7.0         1.9         1.9           s         \$381         26.4         1.4         1.4           s         \$100         \$1.1         4.8         1.4           s         \$101         \$1.2         1.4         1.4           view Protection         \$435         \$0.0         5.4         1.4           view Protection         \$538         132.6         7.2         1.4           h/Paducah         \$26         2.3         11.4         1.4         1.4           fiver         \$383         35.0         8.1         1.2         1.2         1.4           fiver         \$383         35.0         8.1         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4         1.4	Brookhaven	<b>\$</b> 25		4.9	2.9	(2.22)	-44%
Bit         System         System <td>Carlsbad</td> <td><b>\$160</b></td> <td></td> <td></td> <td>18.9</td> <td>(13.12)</td> <td>-41%</td>	Carlsbad	<b>\$160</b>			18.9	(13.12)	-41%
mic Power Laboratory SPRU         \$13         7.0         1.9           s         \$381         26.4         14.4           s         \$381         26.4         14.4           s         \$100         21.1         4.8           \$500         \$1.1         3.6         1.4           s         \$500         21.1         4.8           \$510         \$100         21.1         4.8           \$510         \$113         1.4         1.4           s         \$100         \$21.1         4.8           s         \$13         12.8         1.4           s         \$13         12.8         1.4           s         \$13         12.8         1.4           h/Paducah         \$26         2.3         11.4           h/Paducah         \$283         35.0         8.1           s         \$23         1.20.9         6.9           s         \$10.7         \$3.5         3.5           s         \$1.40         \$1.40         \$1.40	Idaho	<b>\$</b> 949			122.8	67.43	122%
s         59         1.2         7.2           s         5381         26.4         14.4           5         5100         21.1         4.8           5         5100         21.1         4.8           5         5305         50.0         5.4           6         5318         12.8         1.4           6         5318         12.8         1.4           10         5958         12.2         1.4           10         5958         132.6         7.2           10         5958         132.6         7.2           10         526         2.3         11.4           10         528         35.0         8.1           10         533         35.0         8.1           11         533         120.9         6.9           10         531         120.9         5.5           10         531         120.9         5.5           10         531         120.9         5.5	Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3			1.6	(5.36)	-77%
s         §381         26.4         14.4           (11)         (11)         (12)         (14)           (11)         (11)         (12)         (14)           (11)         (11)         (12)         (14)           (11)         (11)         (12)         (14)           (11)         (12)         (14)         (14)           (12)         (12)         (14)         (14)           (14)         (12)         (12)         (14)           (14)         (12)         (12)         (14)           (14)         (12)         (13)         (14)           (14)         (12)         (13)         (14)           (14)         (12)         (13)         (14)           (14)         (12)         (13)         (14)           (14)         (12)         (11)         (12)         (15)	Livermore	<b>\$</b> 9		7.2	1.0	(0.18)	-15%
§100         21.1         4.8           \$435         \$00         5.4           \$435         \$0.0         5.4           \$51         \$12.8         1.4           \$52         \$12.6         7.2           \$52         \$12.6         7.2           \$52         \$12.8         1.4           \$52         \$12.8         1.4           \$52         \$12.8         7.2           \$52         \$13.3         35.0         8.1           \$53         \$53.1         \$10.9         6.9           \$63         \$10.7         \$3.5         3.5           River         \$1,102         \$6.7         16.8	Los Alamos	\$38 <b>1</b>	26.4		45.1	18.73	71%
\$435         \$0.0         5.4           iver Protection         \$18         1.2         1.4           iver Protection         \$958         132.6         7.2           h/Paducah         \$26         2.3         11.4           h/Paducah         \$283         35.0         8.1           ñiver         \$331         120.9         6.9           ñiver         \$1,102         6.7         3.5	Nevada	<b>\$100</b>		4.8	11.8	(9.27)	-44%
\$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100         \$100 <th< td=""><td>Oak Ridge</td><td>\$435</td><td></td><td></td><td>57.6</td><td>(22.37)</td><td>-28%</td></th<>	Oak Ridge	\$435			57.6	(22.37)	-28%
\$958         132.6         7.2           \$26         2.3         11.4           \$283         35.0         8.1           \$831         120.9         6.9           \$52         0.7         3.5           \$1,102         65.7         16.8	Oakland	<b>\$18</b>			2.1	(10.69)	-84%
\$26         2.3         11.4           ducah         \$283         35.0         8.1           \$831         120.9         6.9         5.5           \$5         0.7         3.5         3.5           \$1,102         \$1,102         6.9         5.5           \$1,102         \$5,7         16.8         5.5	Office of River Protection	<b>\$</b> 958	132.6		150.7	18.14	14%
ducah         \$283         35.0         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1         8.1	Pantex	<b>\$</b> 26			3.1	0.80	35%
\$831         120.9         6.9         6.9           \$2         0.7         3.5         3.5           \$1,102         65.7         16.8         3.5	Portsmouth/Paducah	<b>\$28</b> 3	35.0		36.1	1.06	3%
\$2 0.7 3.5 \$1,102 65.7 16.8	Richland	<b>\$</b> 831	120.9		97.4	(23.49)	-19%
\$1,102 65.7 16.8	Sandia	\$2		3.5	0.3	(0.41)	-58%
	Savannah River	\$1,102		16.8	140.6	74.94	114%
UMTRA \$36 4.7 7.7	UMTRA	\$36		1.1	4.3	(0.45)	-10%

Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
DOE	\$6,436.4	729.1	8.8	1,050.2	321.1	44%
NNSA	\$902.6	108.0	8.4	148.9	40.92	38%
Livermore	\$36	5.4	6.7	4.4	(66.0)	-18%
Los Alamos	\$197	30.3	6.5	35.6	5.30	17%
Nevada	\$47	5.2	9.0	6.4	1.24	24%
Pantex	\$27	6.3	4.2	4.0	(2.35)	-37%
Sandia	<b>\$</b> 26	5.7	4.5	2.6	(3.06)	-54%
Office of Site Engineering and Construction Management NA-262	<b>\$259</b>	14.6	17.7	47.3	32.67	224%
Savannah River	\$81	13.5		17.0	3.49	26%
Y-12	<b>\$</b> 231	27.0	8.5	31.6	4.63	17%
SC	<b>\$205</b>	18.2	11.3	30.8	12.58	69%
Berkeley	<b>\$2</b> 0	2.2	9.0	2.6	0.41	19%
Brookhaven	\$45	3.4	13.1	7.3	3.90	115%
Fermi	\$17	2.7	6.3	3.1	0.45	16%
Oak Ridge	<b>\$</b> 31	2.0	15.4	5.1	3.11	156%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	3.0	0.73	32%
Stanford Linear Accelerator	<b>\$57</b>	2.9	19.6	7.6	4.65	160%
Thomas Jefferson	\$12	2.7	4.3	2.0	(0.68)	-25%
EM	\$5,329	602.9	8.8	870.5	267.64	44%
Brookhaven	<b>\$</b> 25	5.1	4.9	3.6	(1.50)	-29%
Carlsbad	\$160	32.0	5.0	23.6	(8.40)	-26%
Idaho	<b>\$</b> 949	55.4	17.1	153.5	98.13	177%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	2.1	(4.95)	-71%
Livermore	<b>\$</b> 9	1.2	7.2	1.3	0.08	7%
Los Alamos	<b>\$</b> 381	26.4	14.4	56.4	30.01	114%
Nevada	<b>\$100</b>	21.1	4.8	14.8	(6.31)	-30%
Oak Ridge	<b>\$4</b> 35	80.0	5.4	72.0	(1.96)	-10%
Oakland	<b>\$18</b>	12.8	1.4	2.6	(10.17)	-79%
Office of River Protection	<b>\$</b> 958	132.6	7.2	188.4	55.83	42%
Pantex	<b>\$</b> 26	2.3	11.4	3.9	1.58	68%
Portsmouth/Paducah	<b>\$28</b> 3	35.0	8.1	45.1	10.07	29%
Richland	\$83 <b>1</b>	120.9	6.9	121.8	0.86	1%
Sandia	\$2	0.7	3.5	0.4	(0.33)	-48%
Savannah River	\$1,102	65.7	16.8	175.8	110.10	168%
UMTRA	\$36	4.7	1.1	5.3	0.62	13%

### Productivity Factor At \$10.0M/FTE

### Productivity Factor At \$7.5M/FTE

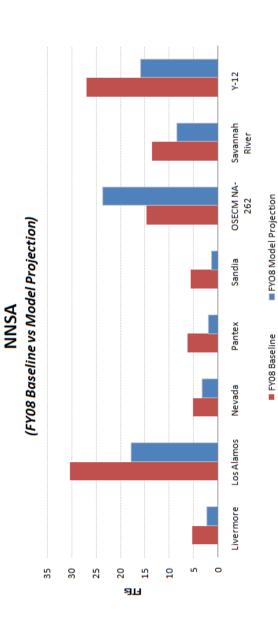
Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
DOE	\$6,436.4	729.1	8.8	1,400.3	671.2	92%
NNSA	\$90 <b>2</b> .6	108.0	8.4	198.6	90.56	84%
Livermore	<b>\$</b> 36	5.4	6.7	5.9	0.48	6%
Los Alamos	<b>\$1</b> 97	30.3	6.5	47.5	17.16	57%
Nevada	\$47	5.2	0.0	8.6	3.39	65%
Pantex	\$27	6.3	4.2	5.3	(1.03)	-16%
Sandia	\$ <b>2</b> 6	2.7	4.5	3.5	(2.19)	-38%
Office of Site Engineering and Construction Management NA-262	\$259	14.6	17.7	63.0	48.42	332%
Savannah River	<b>\$</b> 81	13.5	6.0	22.6	9.15	68%
Y-12	\$231	27.0	8.5	42.2	15.18	56%
sc	\$205	18.2	11.3	41.0	22.84	125%
Berkeley	<b>\$</b> 20	2.2	0.6	3.5	1.28	58%
Brookhaven	\$45	3.4	13.1	9.7	6.34	186%
Fermi	\$17	2.7	6.3	4.2	1.49	55%
Oak Ridge	<b>\$</b> 31	2.0	15.4	6.8	4.82	241%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	4.0	1.75	76%
Stanford Linear Accelerator	\$57	2.9	19.6	10.1	7.17	247%
Thomas Jefferson	<b>\$12</b>	2.7	4.3	2.7	(00.0)	0%
EM	\$5,329	602.9	8.8	1,160.7	557.83	93%
Brookhaven	<b>\$</b> 25	5.1	4.9	4.8	(0:30)	-6%
Carlsbad	\$160	32.0	5.0	31.5	(0.53)	-2%
Idaho	<b>\$</b> 949	55.4	17.1	204.7	149.31	270%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	2.7	(4.26)	-61%
Livermore	<b>\$</b> 9	1.2	7.2	1.7	0.51	42%
Los Alamos	<b>\$</b> 381	26.4	14.4	75.2	48.81	185%
Nevada	<b>\$100</b>	21.1	4.8	19.7	(1.38)	-7%
Oak Ridge	\$435	80.0	5.4	96.0	16.05	20%
Oakland	<b>\$18</b>	12.8	1.4	3.5	(9.29)	-73%
Office of River Protection	\$958	132.6	7.2	251.2	118.64	89%
Pantex	<b>\$</b> 26	2.3	11.4	5.2	2.87	125%
Portsmouth/Paducah	<b>\$28</b> 3	35.0	8.1	60.1	25.10	72%
Richland	<b>\$</b> 831	120.9	6.9	162.3	41.44	34%
Sandia	<b>\$</b> 2	0.7	3.5	0.5	(0.21)	-30%
Savannah River	<b>\$1,102</b>	65.7	16.8	234.4	168.69	257%
UMTRA	\$36	4.7	1.1	7.1	2.39	51%

Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
DOE	\$6,436.4	729.1	8.8	2,100.5	1,371.4	188%
NNSA	\$902.6	108.0	8.4	297.8	189.84	176%
Livermore	\$36	5.4	6.7	8.8	3.42	63%
Los Alamos	\$197	30.3	6.5	71.2	40.89	135%
Nevada	\$47	5.2	9.0	12.9	7.68	148%
Pantex	\$27	6.3	4.2	7.9	1.60	25%
Sandia	<b>\$</b> 26	5.7	4.5	5.3	(0.43)	-8%
Office of Site Engineering and Construction Management NA-262	<b>\$259</b>	14.6	17.7	94.5	79.94	548%
Savannah River	\$81	13.5	6.0	34.0	20.47	152%
Y-12	<b>\$</b> 231	27.0	8.5	63.3	36.27	134%
sc	<b>\$205</b>	18.2	11.3	61.6	43.36	238%
Berkeley	<b>\$20</b>	2.2	9.0	5.2	3.02	137%
Brookhaven	\$45	3.4	13.1	14.6	11.20	329%
Fermi	\$17	2.7	6.3	6.3	3.59	133%
Oak Ridge	<b>\$</b> 31	2.0	15.4	10.2	8.23	411%
Pacific Northwest	<b>\$</b> 25	2.3	10.8	6.1	3.77	164%
Stanford Linear Accelerator	\$57	2.9	19.6	15.1	12.21	421%
Thomas Jefferson	\$12	2.7	4.3	4.0	1.34	50%
EM	\$5,329	602.9	8.8	1,741.1	1,138.19	189%
Brookhaven	<b>\$</b> 25	5.1	4.9	7.2	2.10	41%
Carlsbad	<b>\$160</b>	32.0	5.0	47.2	15.20	48%
Idaho	<b>\$949</b>	55.4	17.1	307.1	251.67	454%
Knolls Atomic Power Laboratory SPRU	\$13	7.0	1.9	4.1	(2.89)	-41%
Livermore	\$ <del>3</del>	1.2	7.2	2.6	1.36	113%
Los Alamos	<b>\$</b> 381	26.4	14.4	112.8	86.42	327%
Nevada	<b>\$100</b>	21.1	4.8	29.6	8.48	40%
Oak Ridge	\$435	80.0	5.4	144.1	64.07	80%
Oakland	<b>\$18</b>	12.8	1.4	5.3	(7.53)	-59%
Office of River Protection	\$958	132.6	7.2	376.9	244.26	184%
Pantex	<b>\$</b> 26	2.3	11.4	7.8	5.45	237%
Portsmouth/Paducah	<b>\$28</b> 3	35.0	8.1	90.1	55.15	158%
Richland	<b>\$</b> 831	120.9	6.9	243.5	122.61	101%
Sandia	<b>\$</b> 2	0.7	3.5	0.7	0.03	5%
Savannah River	\$1,102	65.7	16.8	351.6	285.89	435%
UMTRA	\$36	4.7	1.1	10.6	5.93	126%

### Productivity Factor At \$5.0M/FTE

## NNSA: APPLICATION OF STAFFING MODEL TO FY2008 DATA AT VARYING PRODUCTIVITY FACTORS

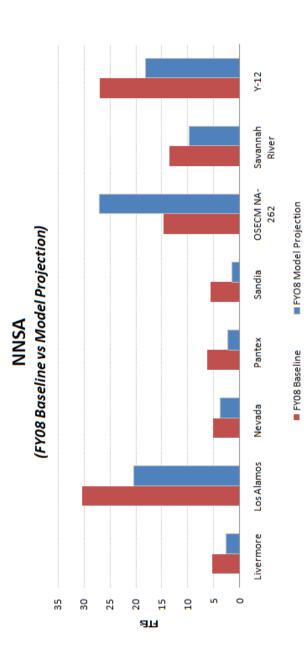
Productivity Factor At \$20.0M/FTE



Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA	\$902.6	108.0	8.4	74.5	(33.54)	-31%
Livermore	\$36	5.4	6.7	2.2	(3.20)	-59%
Los Alamos	\$197	30.3	6.5	17.8	(12.50)	-41%
Nevada	\$47	5.2	9.0	3.2	(1.98)	-38%
Pantex	\$27	6.3	4.2	2.0	(4.32)	-69%
Sandia	\$26	2.7	4.5	1.3	(4.38)	-17%
Office of Site Engineering and Construction Management NA-262	<b>\$259</b>	14.6	17.7	23.6	9.03	62%
Savannah River	<b>\$</b> 81	13.5	6.0	8.5	(5.01)	-37%
Y-12	<b>\$</b> 231	27.0	8.5	15.8	(11.18)	-41%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	74.5	(33.54)	-31%
Livermore									<b>\$</b> 36	5.4	6.7	2.2	(3.20)	-59%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 36	5.4	6.7	2.2	(3.20)	-59%
Los Alamos									\$197	30.3	6.5	17.8	(12.50)	-41%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 92	9.4	9.8	5.7	(3.74)	-40%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 9	2.1	4.3	1.5	(09.0)	-29%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 59	6.4	9.2	7.2	0.77	12%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$28</b>	3.8	7.3	2.5	(1.28)	-34%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$1	2.2	0.5	0.1	(2.05)	-93%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	0.7	(1.64)	-71%
TRU Waste Facility Project	0	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	4.1	0.2	0.1	(3.95)	-96%
Nevada									\$47	5.2	9.0	3.2	(1.98)	-38%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$40	3.7	10.8	2.9	(0.85)	-23%
Replace Fire Stations #1 and #2	3	Const	Low	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$7	1.5	4.4	0.4	(1.13)	-75%
Pantex									<b>\$</b> 27	6.3	4.2	2.0	(4.32)	-69%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$18	1.4	12.7	1.1	(0.31)	-22%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	0.6	(2.03)	-78%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$2	2.3	0.9	0.3	(1.98)	-86%
Sandia									<b>\$</b> 26	5.7	4.5	1.3	(4.38)	-17%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	DOE M&O (Sub) Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	0.7	(0.12)	-15%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	0.5	(1.29)	-72%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	DOE M&O (Sub) Fixed-price (firm, no incentive)	No	Low	Low	\$3	3.1	0.8	0.1	(2.97)	-96%
Office of Site Engineering and Construction Management NA-262									\$259	14.6	17.7	23.6	9.03	62%
Mixed Oxide Fuel Fabrication Facility (MOX)	3	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	23.6	9.03	62%
Savannah River									\$ <b>8</b> 1	13.5	6.0	8.5	(5.01)	-37%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$51	6.9	7.4	5.9	(1.00)	-15%
Waste Solidification Building (WSB)	m	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	2.6	(4.00)	-61%
Y-12									<b>\$</b> 231	27.0	8.5	15.8	(11.18)	-41%
Beryllium Capability (BeC) Project	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	0.8	(1.42)	-65%
Highly Enriched Uranium Materials Facility	e	Const	Med	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	9.6	3.66	62%
Potable Water System Upgrade	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$22	3.5	6.4	1.5	(2.01)	-57%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	0.7	(1.50)	-68%
Steam Plant Life Extension	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	0.9	(2.47)	-73%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	\$20	9.8	2.1	2.4	(7.44)	-76%

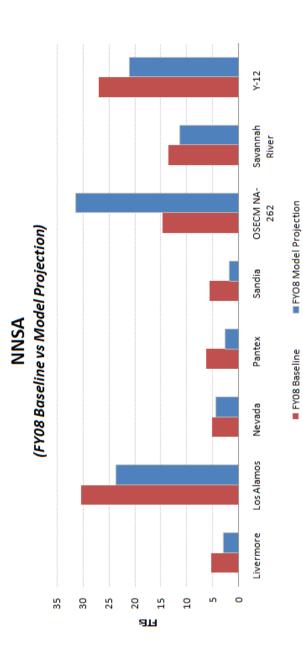




		PF (FY085 / FY08 Fed FTEs)	FIEs - Model Projection	FY08 Gap	Pct Diff
NNSA \$902.6	302.6 108.0	8.4	85.1	(22.90)	-21%
Livermore \$3	\$36 5.4	6.7	2.5	(2.88)	-53%
Los Alamos \$19	\$197 30.3	6.5	20.3	(96.6)	-33%
Nevada \$4	\$47 5.2	9.0	3.7	(1.52)	-29%
Pantex \$2	\$27 6.3	4.2	2.3	(4.04)	-64%
Sandia \$2	\$26 5.7	4.5	1.5	(4.19)	-74%
Office of Site Engineering and Construction Management NA-262 \$25	\$259 14.6	17.7	27.0	12.41	85%
Savannah River \$8	\$81 13.5	6.0	2'6	(3.79)	-28%
Y-12 \$23	\$231 27.0	8.5	18.1	(8.92)	-33%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	85.1	(22.90)	-21%
Livermore									\$36	5.4	6.7	2.5	(2.88)	-53%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$36	5.4	6.7	2.5	(2.88)	-53%
Los Alamos									\$197	30.3	6.5	20.3	(9.96)	-33%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	row	Low	<b>\$</b> 92	9.4	9.8	6.5	(2.93)	-31%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	6\$	2.1	4.3	1.7	(0.39)	-19%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	\$59	6.4	9.2	8.2	1.79	28%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 28	3.8	7.3	2.9	(0.92)	-24%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	2.2	0.5	0.2	(2.03)	-92%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	0.8	(1.54)	-67%
TRU Waste Facility Project	•	Const	Med	DOE M&O	Incentive (cost-reimbursement)	N	Low	Low	\$1	4.1	0.2	0.2	(3.93)	%96-
Nevada									\$47	5.2	0.0	3.7	(1.52)	-29%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	e	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<del>8</del>	3.7	10.8	3.3	(0.44)	-12%
Replace Fire Stations #1 and #2	3	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	1.5	4.4	0.4	(1.08)	-72%
Pantex									\$27	6.3	4.2	2.3	(4.04)	-64%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$18	1.4	12.7	1.2	(0.16)	-11%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	0.6	(1.95)	-75%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 2	2.3	0.9	0.4	(1.93)	-84%
Sandia									<b>\$</b> 26	5.7	4.5	1.5	(4.19)	-74%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	0.8	(0.02)	-2%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	0.6	(1.22)	-68%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	<del>\$</del> 3	3.1	0.8	0.1	(2.95)	-95%
Office of Site Engineering and Construction Management NA-262									<b>\$259</b>	14.6	17.7	27.0	12.41	85%
Mixed Oxide Fuel Fabrication Facility (MOX)	m	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	27.0	12.41	85%
Savannah River									<b>\$</b> 81	13.5	6.0	9.7	(3.79)	-28%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$51	6.9	7.4	6.7	(0.16)	-2%
Waste Solidification Building (WSB)	m	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	3.0	(3.63)	-55%
Y-12									\$231	27.0	8.5	18.1	(8.92)	-33%
Beryllium Capability (BeC) Project	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	0.9	(1.31)	-60%
Highly Enriched Uranium Materials Facility	e	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	10.9	5.02	85%
Potable Water System Upgrade	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$22	3.5	6.4	1.7	(1.80)	-51%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	0.8	(1.40)	-64%
Steam Plant Life Extension	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	1.1	(2.33)	-69%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$20	9.8	2.1	2.7	(7.10)	-72%

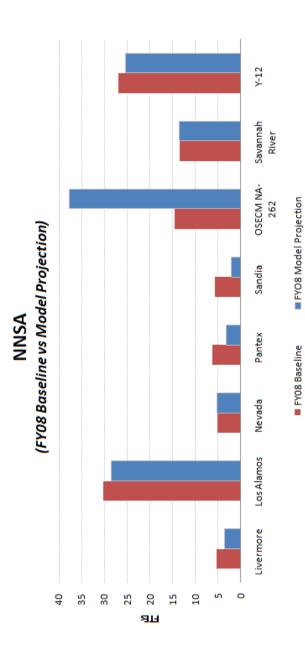




Program / Site Office / Project FY	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA	\$902.6	108.0	8.4	8.99.3	(8.72)	-8%
Livermore	<b>\$</b> 36	5.4	6.7	2.9	(2.46)	-46%
Los Alamos	<b>\$197</b>	30.3	6.5	23.7	(6.57)	-22%
Nevada	\$47	5.2	9.0	4.3	(0.91)	-17%
Pantex	\$27	6.3	4.2	2.6	(3.67)	-58%
Sandia	<b>\$</b> 26	5.7	4.5	1.8	(3.94)	-69%
Offlice of Site Engineering and Construction Management NA-262	<b>\$259</b>	14.6	17.7	31.5	16.91	116%
Savannah River	<b>\$81</b>	13.5	6.0	11.3	(2.18)	-16%
Y-12	<b>\$</b> 231	27.0	8.5	21.1	(5.91)	-22%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Regulatory External Uniqueness Involvement Influence	tory External ment Influence	EY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA								\$902.6	108.0	8.4	99.3	(8.72)	-8%
Livermore								<b>\$</b> 36	5.4	6.7	2.9	(2.46)	-46%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	<b>\$</b> 36	5.4	6.7	2.9	(2.46)	-46%
Los Alamos								\$197	30.3	6.5	23.7	(6.57)	-22%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	<b>\$</b> 92	9.4	9.8	7.5	(1.85)	-20%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$</b> 9	2.1	4.3	2.0	(0.11)	-5%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$</b> 59	6.4	9.2	9.6	3.15	49%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$</b> 28	3.8	7.3	3.4	(0.44)	-12%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$1</b>	2.2	0.5	0.2	(2.01)	-91%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	\$7	2.3	3.0	0.9	(1.42)	-62%
TRU Waste Facility Project	0	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$1</b>	4.1	0.2	0.2	(3.90)	-95%
Nevada								\$47	5.2	9.0	4.3	(0.91)	-17%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	\$40	3.7	10.8	3.8	0.10	3%
Replace Fire Stations #1 and #2	3	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$7	1.5	4.4	0.5	(1.01)	-67%
Pantex								\$27	6.3	4.2	2.6	(3.67)	-58%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$18	1.4	12.7	1.4	0.05	3%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$7	2.6	2.7	0.8	(1.84)	-71%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$2	2.3	0.9	0.4	(1.87)	-81%
Sandia								\$26	5.7	4.5	1.8	(3.94)	-69%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No Low	v Low	\$13	0.8	16.6	0.9	0.11	14%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No Low	v Low	\$10	1.8	5.5	0.7	(1.12)	-62%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No Low	v Low	\$3	3.1		0.2	(2.93)	-94%
Office of Site Engineering and Construction Management NA-262								\$259	14.6	17.7	31.5	16.91	116%
Mixed Oxide Fuel Fabrication Facility (MOX)	m	Const	High	DOE Direct	Incentive (cost-reimbursement)	No Low	v Low	\$259	14.6	17.7	31.5	16.91	116%
Savannah River								\$81	13.5	6.0	11.3	(2.18)	-16%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No Low	v Low	\$51	6.9	7.4	7.9	0.96	14%
Waste Solidification Building (WSB)	m	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No Low	v Low	\$30	6.6	4.6	3.5	(3.14)	-48%
Y-12								\$231	27.0	8.5	21.1	(5.91)	-22%
Beryllium Capability (BeC) Project	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	\$12	2.2	5.3	1.0	(1.16)	-53%
Highly Enriched Uranium Materials Facility	e	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$156	5.9	26.4	12.7	6.84	116%
Potable Water System Upgrade	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	<b>\$22</b>	3.5	6.4	2.0	(1.52)	-43%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	\$6	2.2	2.7	0.9	(1.27)	-58%
Steam Plant Life Extension	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No Low	v Low	\$14	3.4	4.1	1.2	(2.15)	-63%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No Low	v Low	\$20	9.8	2.1	3.2	(6.65)	-68%

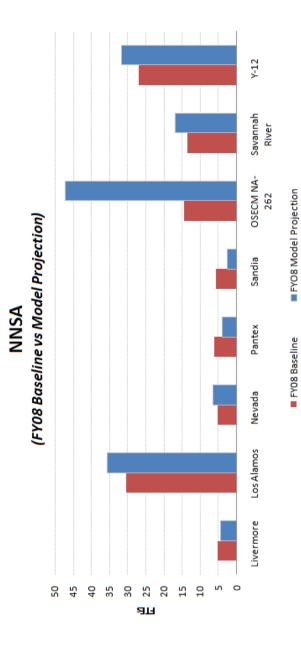




	FY08 \$M FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA \$902.6	\$902.6 108.0	8.4	119.1	11.14	10%
\$36	\$36 5.4	6.7	3.5	(1.87)	-35%
Los Alamos \$197	\$197 30.3	6.5	28.5	(1.82)	-6%
Nevada \$47	\$47 5.2	9.0	5.2	(0.05)	-1%
Pantex \$27	\$27 6.3	4.2	3.2	(3.14)	-50%
Sandia \$26	\$26 5.7	4.5	2.1	(3.59)	-63%
Office of Site Engineering and Construction Management NA-262 \$259	\$259 14.6	17.7	37.8	23.21	159%
Savannah River \$81	\$81 13.5	6.0	13.6	0.09	1%
Y-12 \$231	\$231 27.0	8.5	25.3	(1.69)	-6%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	119.1	11.14	10%
Livermore									\$36	5.4	6.7	3.5	(1.87)	-35%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$36	5.4	6.7	3.5	(1.87)	-35%
Los Alamos									\$197	30.3	6.5	28.5	(1.82)	-6%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	row	Low	<b>\$</b> 92	9.4	9.8	9.1	(0.34)	-4%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	<b>6</b> \$	2.1	4.3	2.4	0.29	14%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	\$59	6.4	9.2	11.5	5.07	79%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 28	3.8	7.3	4.0	0.23	6%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	2.2	0.5	0.2	(1.97)	-89%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	1.1	(1.24)	-54%
TRU Waste Facility Project	•	Const	Med	DOE M&O	Incentive (cost-reimbursement)	N	Low	Low	\$1	4.1	0.2	0.2	(3.87)	-94%
Nevada									\$47	5.2	9.0	5.2	(0.05)	-1%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	e	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<del>\$</del>	3.7	10.8	4.6	0.86	23%
Replace Fire Stations #1 and #2	e	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	row	Low	\$7	1.5	4.4	0.6	(0.91)	-60%
Pantex									\$27	6.3	4.2	3.2	(3.14)	-50%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$18	1.4	12.7	1.7	0.34	24%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	0.9	(1.69)	-65%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 2	2.3	0.9	0.5	(1.78)	-78%
Sandia									\$26	5.7	4.5	2.1	(3.59)	-63%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	1.1	0.29	37%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	0.8	(0.99)	-55%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$3	3.1	0.8	0.2	(2.90)	-93%
Office of Site Engineering and Construction Management NA-262									<b>\$2</b> 59	14.6	17.7	37.8	23.21	159%
Mixed Oxide Fuel Fabrication Facility (MOX)	m	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	37.8	23.21	159%
Savannah River									<b>\$</b> 81	13.5	6.0	13.6	0.09	1%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$51	6.9	7.4	9.4	2.53	37%
Waste Solidification Building (WSB)	m	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	4.2	(2.44)	-37%
Y-12									\$231	27.0	8.5	25.3	(1.69)	-6%
Beryllium Capability (BeC) Project	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	1.2	(0.96)	-43%
Highly Enriched Uranium Materials Facility	e	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	15.3	9.39	159%
Potable Water System Upgrade	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$22</b>	3.5	6.4	2.4	(1.12)	-32%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	1.1	(1.08)	-49%
Steam Plant Life Extension	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	1.5	(1.91)	-56%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$20	9.8	2.1	3.8	(6.02)	-61%

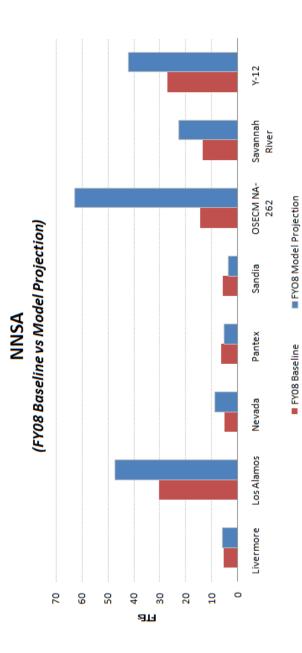
### Productivity Factor At \$10.0M/FTE



Program / Site Office / Project FY	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA	\$902.6	108.0	8.4	148.9	40.92	38%
Livermore	<b>\$</b> 36	5.4	6.7	4.4	(66.0)	-18%
Los Alamos	<b>\$197</b>	30.3	6.5	35.6	5.30	17%
Nevada	\$47	5.2	0.0	6.4	1.24	24%
Pantex	\$27	6.3	4.2	4.0	(2.35)	-37%
Sandia	<b>\$</b> 26	5.7	4.5	2.6	(3.06)	-54%
Office of Site Engineering and Construction Management NA-262	\$259	14.6	17.7	47.3	32.67	224%
Savannah River	<b>\$81</b>	13.5	6.0	17.0	3.49	26%
Y-12	\$231	27.0	8.5	31.6	4.63	17%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	148.9	40.92	38%
Livermore									\$36	5.4	6.7	4.4	(66.0)	-18%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 36	5.4	6.7	4.4	(0.99)	-18%
Los Alamos									\$197	30.3	6.5	35.6	5.30	17%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	row	Low	<b>\$</b> 92	9.4	9.8	11.3	1.92	20%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	6\$	2.1	4.3	3.0	0.89	43%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	<b>\$</b> 59	6.4	9.2	14.3	7.93	124%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 28	3.8	7.3	5.0	1.24	33%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	2.2	0.5	0.3	(1.91)	-87%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	1.3	(0.97)	-42%
TRU Waste Facility Project	•	Const	Med	DOE M&O	Incentive (cost-reimbursement)	N	Low	Low	\$1	4.1	0.2	0.3	(3.81)	-93%
Nevada									\$47	5.2	9.0	6.4	1.24	24%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	e	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$40	3.7	10.8	5.7	2.00	54%
Replace Fire Stations #1 and #2	e	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	row	Low	\$7	1.5	4.4	0.7	(0.76)	-51%
Pantex									\$27	6.3	4.2	4.0	(2.35)	-37%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$18</b>	1.4	12.7	2.2	0.77	55%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	1.1	(1.47)	-56%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 2	2.3	0.9	0.6	(1.66)	-72%
Sandia									<b>\$</b> 26	5.7	4.5	2.6	(3.06)	-54%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	1.4	0.57	71%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	1.0	(0.79)	-44%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$3	3.1	0.8	0.3	(2.84)	-92%
Office of Site Engineering and Construction Management NA-262									<b>\$259</b>	14.6	17.7	47.3	32.67	224%
Mixed Oxide Fuel Fabrication Facility (MOX)	m	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	47.3	32.67	224%
Savannah River									\$81	13.5	6.0	17.0	3.49	26%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$51	6.9	7.4	11.8	4.89	71%
Waste Solidification Building (WSB)	m	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	5.2	(1.41)	-21%
Y-12									\$231	27.0	8.5	31.6	4.63	17%
Beryllium Capability (BeC) Project	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	1.6	(0.65)	-29%
Highly Enriched Uranium Materials Facility	m	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	19.1	13.21	224%
Potable Water System Upgrade	e	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$22	3.5	6.4	3.0	(0.52)	-15%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	1.4	(0.80)	-36%
Steam Plant Life Extension	8	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	1.9	(1.53)	-45%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$20	9.8	2.1	4.7	(5.07)	-52%

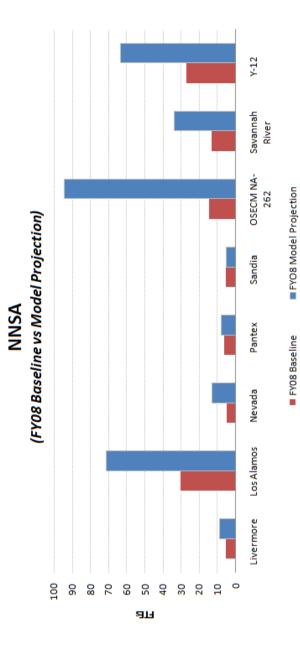




Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA	\$902.6	108.0	8.4	198.6	90.56	84%
Livermore	\$36	5.4	6.7	5.9	0.48	%6
Los Alamos	<b>\$197</b>	30.3	6.5	47.5	17.16	57%
Nevada	\$47	5.2	0.0	8.6	3.39	65%
Pantex	12\$	6.3	4.2	5.3	(1.03)	-16%
Sandia	\$26	5.7	4.5	3.5	(2.19)	-38%
Office of Site Engineering and Construction Management NA-262	\$259	14.6	17.7	63.0	48.42	332%
Savannah River	\$81	13.5	6.0	22.6	9.15	68%
Y-12	\$231	27.0	8.5	42.2	15.18	56%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	198.6	90.56	84%
Livermore									<b>\$</b> 36	5.4	6.7	5.9	0.48	6%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 36	5.4	6.7	5.9	0.48	9%6
Los Alamos									\$197	30.3	6.5	47.5	17.16	57%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 92	9.4	9.8	15.1	5.69	61%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	row	Low	6\$	2.1	4.3	4.0	1.89	%06
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 59	6.4	9.2	19.1	12.71	199%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$28</b>	3.8	7.3	6.7	2.92	77%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	2.2	0.5	0.4	(1.81)	-82%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	1.8	(0.53)	-23%
TRU Waste Facility Project	0	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$1	4.1	0.2	0.4	(3.71)	%06-
Nevada									\$47	5.2	9.0	8.6	3.39	65%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$40	3.7	10.8	7.6	3.90	105%
Replace Fire Stations #1 and #2	3	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	1.5	4.4	1.0	(0.51)	-34%
Pantex									\$27	6.3	4.2	5.3	(1.03)	-16%
High Explosive Pressing Facility	3	Const	Med	DOE M&O (Sub)	DOE M&O (Sub) Incentive (cost-reimbursement)	No	Low	Low	<b>\$18</b>	1.4	12.7	2.9	1.50	107%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	1.5	(1.09)	-42%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 2	2.3	0.9	0.9	(1.44)	-63%
Sandia									<b>\$2</b> 6	5.7	4.5	3.5	(2.19)	-38%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	1.8	1.02	128%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	1.4	(0.45)	-25%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$3	3.1	0.8	0.3	(2.76)	-89%
Office of Site Engineering and Construction Management NA-262									\$259	14.6	17.7	63.0	48.42	332%
Mixed Oxide Fuel Fabrication Facility (MOX)	3	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	63.0	48.42	332%
Savannah River									<b>\$</b> 81	13.5	6.0	22.6	9.15	68%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 51	6.9	7.4	15.7	8.82	128%
Waste Solidification Building (WSB)	3	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	6.9	0.33	5%
Y-12									\$231	27.0	8.5	42.2	15.18	56%
Beryllium Capability (BeC) Project	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	2.1	(0.13)	-6%
Highly Enriched Uranium Materials Facility	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	25.5	19.58	332%
Potable Water System Upgrade	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$22</b>	3.5	6.4	4.0	0.47	13%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	1.9	(0.34)	-15%
Steam Plant Life Extension	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	2.5	(0.91)	-27%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$20	9.8	2.1	6.3	(3.50)	-36%

### Productivity Factor At \$5.0M/FTE

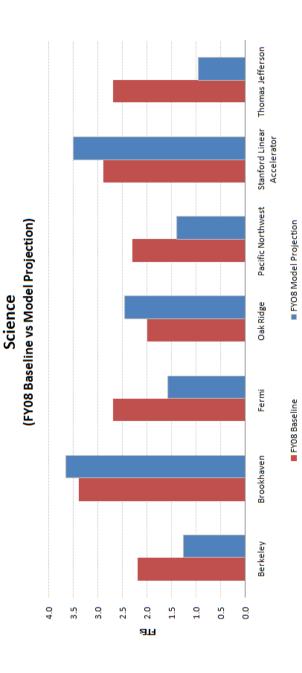


\$902.6         108.0         8.4         297.8         1           more         \$36         5.4         6.7         8.8         8.4         297.8         1           more         \$136         5.4         6.7         8.8         8.4         297.8         1         2           damos         \$197         30.3         6.5         71.2         8.8         71.2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3	Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
(316)         (5,4)         (6,7)         (8,8)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (8,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)         (19,1)	NNSA	\$902.6	108.0		297.8	189.84	176%
\$197         30.3         6.5         71.2         4           \$47         5.2         9.0         12.9         4           \$54         5.2         9.0         12.9         7           \$55         5.3         6.3         4.2         7.9           \$56         5.7         4.5         5.3         7           \$56         5.7         4.5         5.3         7           \$57         14.6         17.7         4.5         5.3         7           \$51         13.5         13.5         5.3         7         7           \$51         13.5         5.7         5.3         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7         7 <td< td=""><td>Livermore</td><td><b>\$</b>36</td><td></td><td></td><td>8.8</td><td>3.42</td><td>63%</td></td<>	Livermore	<b>\$</b> 36			8.8	3.42	63%
\$47         5.2         9.0         12.9           \$27         6.3         4.2         7.9           \$28         5.3         4.2         7.9           \$26         5.7         4.5         5.3         (1           \$26         5.7         4.5         5.3         (1           \$27         \$259         14.6         17.7         94.5         7.0           \$28         \$31         13.5         6.0         34.0         2.3         1           \$28         \$31         27.0         8.5         6.3         3.3         3	Los Alamos	\$197			71.2	40.89	135%
\$27     6.3     4.2     7.9       \$26     5.7     4.5     5.3     (1       gineering and Construction Management NA-262     \$259     14.6     17.7     94.5     7       \$81     13.5     6.0     34.0     2       \$531     27.0     8.5     63.3     3	Nevada	\$47			12.9	7.68	148%
\$26         5.7         4.5         5.3           gineering and Construction Management NA-262         \$259         14.6         17.7         94.5           \$81         13.5         6.0         34.0         34.0         34.0         34.0	Pantex	\$27			7.9	1.60	25%
gineering and Construction Management NA-262 \$259 14.6 17.7 94.5 \$81 13.5 6.0 34.0 \$231 27.0 8.5 63.3	Sandia	<b>\$</b> 26			5.3	(0.43)	-8%
\$81         13.5         6.0         34.0           \$231         27.0         8.5         63.3	Office of Site Engineering and Construction Management NA-262	\$259			94.5	79.94	548%
\$231 27.0 8.5 63.3	Savannah River	<b>\$81</b>	13.5		34.0	20.47	152%
	Y-12	<b>\$</b> 231	27.0	8.5	63.3	36.27	134%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
NNSA									\$902.6	108.0	8.4	297.8	189.84	176%
Livermore									<b>\$</b> 36	5.4	6.7	8.8	3.42	63%
National Ignition Facility (NIF)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 36	5.4	6.7	8.8	3.42	63%
Los Alamos									<b>\$1</b> 97	30.3	6.5	71.2	40.89	135%
Chemistry & Metallurgy Research Facility Replacement (CMRR)	3	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	٥N	Pow	Low	<b>\$</b> 92	9.4	8.6	22.6	13.24	141%
Los Alamos Neutron Science Center Reburbishment	0	Const	Low	DOE M&O	Incentive (cost-reimbursement)	٥N	row	Low	6\$	2.1	4.3	6.0	3.89	185%
NMSSUP (Phase II)	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	٥N	Pow	Low	<b>\$</b> 59	6.4	9.2	28.7	22.26	348%
Replace Radioactive Liquid Waste Treatment Plant	2	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 28	3.8	7.3	10.1	6.29	165%
TA – 55 Infrastructure Reinvestment Project, TRP II	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	2.2	0.5	0.6	(1.62)	-74%
TA-55 Infrastructure Reinvestment, TRP 1	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.3	3.0	2.7	0.35	15%
TRU Waste Facility Project	0	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	<b>\$1</b>	4.1	0.2	0.6	(3.51)	-86%
Nevada									\$47	5.2	9.0	12.9	7.68	148%
Criticality Experiments Facility (formerly TA-18 Mission Relocation)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$40	3.7	10.8	11.4	7.70	208%
Replace Fire Stations #1 and #2	3	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	1.5	4.4	1.5	(0.02)	-1%
Pantex									\$27	6.3	4.2	7.9	1.60	25%
High Explosive Pressing Facility	e	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$18	1.4	12.7	4.3	2.95	210%
High Pressure Fire Loop, Zone 12	2	Const	Low	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$7	2.6	2.7	2.3	(0.33)	-13%
Weapons Surveillance Facility	0	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$2	2.3	0.9	1.3	(1.01)	-44%
Sandia									<b>\$</b> 26	5.7	4.5	5.3	(0.43)	-8%
Heating System Modernization, TA-1	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$13	0.8	16.6	2.7	1.93	241%
Ion Beam Laboratory	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$10	1.8	5.5	2.0	0.23	13%
Test Capabilities Revitalization (Phase II)	3	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$3	3.1	0.8	0.5	(2.59)	-83%
Office of Site Engineering and Construction Management NA-262									<b>\$259</b>	14.6	17.7	94.5	79.94	548%
Mixed Oxide Fuel Fabrication Facility (MOX)	m	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$259	14.6	17.7	94.5	79.94	548%
Savannah River									\$81	13.5	6.0	34.0	20.47	152%
Pit Disassembly and Conversion Facility (PDCF)	2	Const	High	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$51	6.9	7.4	23.6	16.68	242%
Waste Solidification Building (WSB)	3	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Low	Low	\$30	6.6	4.6	10.4	3.79	57%
Y-12									\$231	27.0	8.5	63.3	36.27	134%
Beryllium Capability (BeC) Project	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$12	2.2	5.3	3.1	0.91	41%
Highly Enriched Uranium Materials Facility	en	Const	Med	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	\$156	5.9	26.4	38.2	32.32	548%
Potable Water System Upgrade	m	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$22	3.5	6.4	6.0	2.45	70%
Security Improvements	1	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$6	2.2	2.7	2.8	0.60	27%
Steam Plant Life Extension	3	Const	Low	DOE M&O	Incentive (cost-reimbursement)	No	Low	Low	\$14	3.4	4.1	3.7	0.34	10%
Uranium Processing Facility	1	Const	High	DOE M&O (Sub)	Incentive (cost-reimbursement)	No	Low	Low	<b>\$</b> 20	9.8	2.1	9.5	(0.35)	-4%

# SCIENCE: APPLICATION OF STAFFING MODEL TO FY2008 DATA AT VARYING PRODUCTIVITY FACTORS

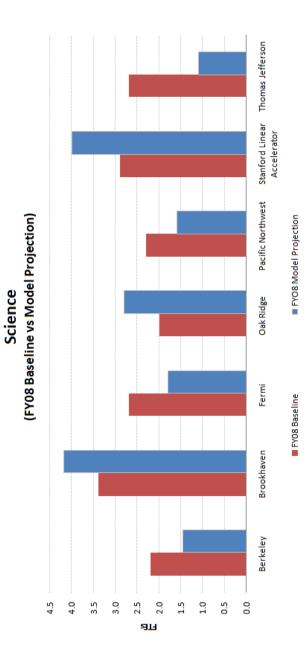
Productivity Factor At \$20.0M/FTE



		444		2.2	1.17	-	176.0						
Stanford Linear Accelerator		\$57		2.9	19.6 3.5	-	0.59	20%					
Thomas Jefferson		<b>\$12</b>		2.7	4.3 1.0	0	(1.75)	-65%					
Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence		FY08 \$M FY08 Fed	Fed FY08 Fed FTEs	FTEs - Model Projection	FY08 Gap	Pct Diff
sc									\$205 18	18.2 11.3	14.8	(3.43)	-19%
Berkeley									\$20	2.2 9.0	1.3	(0.94)	-43%
Building 51 and Bevatron D&D	m	D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8 10.9	0.5	(0.34)	-43%
Seismic Safety Phase 2	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	ON (	Low	Low	\$2 (	0.8 2.5	0.3	(0.50)	-62%
Transmission Electron Aberration–Corrected Microscope (TEAM)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	ON (	Low	Low	\$4	0.3 13.3	0.2	(0.08)	-27%
ALS User Support Building (USB)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No No	Low	Low	\$5 (	0.3 16.5	0.3	(0.02)	-7%
Brookhaven									\$45	3.4 13.1	3.7	0.25	7%
Interdisciplinary Science Building – Phase I	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	ON (	Low	Low	\$1 (	0.5 1.0	0.1	(0.42)	-85%
National Synchrotron Light Source (NSLS – II)	2	Const	Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No No	Low	Low	\$44 S	2.9 15.2	3.6	0.68	23%
Fermi									\$17	2.7 6.3	1.6	(1.13)	-42%
Ground – Based Dark Energy Experiement (GBDEE) (DES)	2	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	NO NO	Low	Low	\$6 (	0.3 18.3	0.4	0.11	38%
NUMI Off – Axis Neutrino (v) Appearance (NOvA)	1	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No No	Low	Low	\$12 \$	2.4 4.8	1.2	(1.24)	-52%
Oak Ridge						_			\$31	2.0 15.4	2.4	0.45	22%
Modernization of Laboratory Facilities	1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No No	Low	Low	\$9 (\$	0.5 18.7	0.9	0.44	89%
SING II	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	ON (	Low	Low	\$6 (	0.5 12.0	0.6	0.13	26%
SNS Instruments (SING)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	NO NO	Low	Low	\$15 (	0.4 38.0	0.8	0.44	109%
SNS Power Upgrade (07PUP)	0	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No No	Low	Low	\$0 (	0.6 0.4	0.0	(0.56)	-94%
Pacific Northwest									\$25	2.3 10.8	1.4	(0.91)	-39%
Physical Sciences Facility (PSF)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No No	Low	Low	\$25	2.3 10.8	1.4	(0.91)	-39%
Stanford Linear Accelerator									\$57	2.9 19.6	3.5	0.59	20%
LCLS Ultrafast Science Instruments (LUSI)	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	ON (	Low	Low	\$6 (	0.9 6.7	0.6	(0.27)	-30%
Linac Coherent Light Source (LCLS)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No No	Low	Low	\$51	2.0 25.4	2.9	0.86	43%
Thomas Jefferson									\$12	2.7 4.3	1.0	(1.75)	-65%
12 GeV CEBAF Upgrade	2	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6 7.0	0.9	(0.69)	-43%
Technology and Engineering Development Facility (TEDF)	0	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	1.1 0.2	0.0	(1.06)	-96%

rogram / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
	\$205	18.2	11.3	14.8	(3.43)	-19%
Berkeley	\$20	2.2	0'6	1.3	(0.94)	-43%
Brookhaven	\$45	3.4	13.1	3.7	0.25	7%
Fermi	\$17	2.7	6.3	1.6	(1.13)	-42%
Oak Ridge	\$31	2.0	15.4	2.4	0.45	22%
Pacific Northwest	\$25	2.3	10.8	1.4	(16.0)	-39%
Stanford Linear Accelerator	\$57	2.9	19.6	3.5	0.59	20%
Thomas Jefferson	\$12	2.7	4.3	1.0	(1.75)	-65%

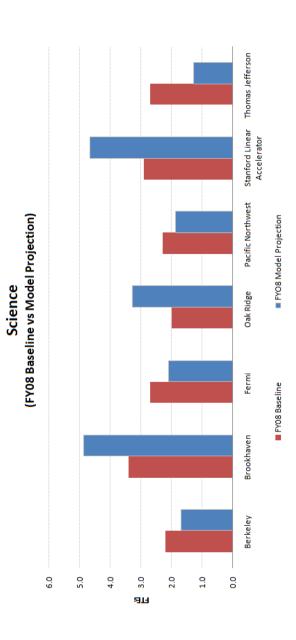




rogram / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
	\$205	18.2	11.3	16.9	(1.32)	%1-
	\$20	2.2	9.6	1.4	(0.76)	-35%
Brookhaven	\$45	3.4	13.1	4.2	0.77	23%
	\$17	2.7	6.3	1.8	(06.0)	-33%
Oak Ridge	\$31	2.0	15.4	2.8	0.80	40%
Pacific Northwest	\$25	2.3	10.8	1.6	(0.71)	-31%
Stanford Linear Accelerator	\$57	2.9	19.6	4.0	1.09	38%
Thomas Jefferson	\$12	2.7	4.3	1.1	(1.61)	-60%

Ket Met Met Met Met MetSolIndSolMet Met MetSolMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met MetMet Met Met MetMet Met Met Met Met Met MetMet Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met Met <b< th=""><th>Program / Site Office / Project</th><th>Project Phase</th><th>: Project Type</th><th>HST</th><th>Project Execution</th><th>Contract Type</th><th>Project Uniqueness</th><th>Project Regulatory niqueness Involvement</th><th>External Influence</th><th>FY08 \$M</th><th>FY08 Fed FTEs</th><th>PF (FY08\$ / FY08 Fed FTEs)</th><th>FTEs - Model Projection</th><th>FY08 Gap</th><th>Pct Diff</th></b<>	Program / Site Office / Project	Project Phase	: Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory niqueness Involvement	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
and developmentane         a         b         b         DEG MARO (Such)         Evelopmentane         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i <td>sc</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$205</td> <td>18.2</td> <td>11.3</td> <td>16.9</td> <td>(1.32)</td> <td>-7%</td>	sc									\$205	18.2	11.3	16.9	(1.32)	-7%
and Releation O&D         tow         DE         Mode         Low         Dev         Dev <thdev< th="">         Dev         <thdev< th=""></thdev<></thdev<>	Berkeley									\$20	2.2	0.0	1.4	(0.76)	-35%
etcy         DOC MAD (Sub)         Ixed price (frm, no incentive)         No         Low         Cord         Cos	Building 51 and Bevatron D&D	'n	D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8	10.9	0.5	(0.28)	-34%
In electron Abernation-Corrected Microscope (TEAM)         3         Mile         Low         DOE M&BO (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Sd         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G         G	Seismic Safety Phase 2	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	0.3	(0.45)	-57%
opport Building (USB)         3         Const         Low         Low <thlow< th="">         Low         <thlow< th=""></thlow<></thlow<>	Transmission Electron Aberration-Corrected Microscope (TEAM)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	0.3	(0.05)	-16%
	ALS User Support Building (USB)	m	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	٩	Low	Low	ŝ	0.3	16.5	0.3	0.02	6%
eq:linery Science Building-Phase1 0 0 const Low l	Brookhaven									\$45	3.4	13.1	4.2	0.77	23%
	Interdisciplinary Science Building – Phase I	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5	1.0	0.1	(0.41)	-83%
And the forget for the formation of the	National Synchrotron Light Source (NSLS – II)	2	Const	Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$45	2.9	15.2	4.1	1.19	41%
Based Dark Energy Experiement (GBDEE) (DES)         MIE         Low         DOE M&O (Sub)         Exde-price (firm, no incentive)         No         Low         So         0.3         1.33         0.53         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33         0.33 <t< td=""><td>Fermi</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$17</td><td>2.7</td><td>6.3</td><td>1.8</td><td>(06.0)</td><td>-33%</td></t<>	Fermi									\$17	2.7	6.3	1.8	(06.0)	-33%
	Ground – Based Dark Energy Experiement (GBDEE) (DES)	2	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.3	18.3	0.5	0.17	57%
	NUMI Off – Axis Neutrino (v) Appearance (NOvA)	1	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	1.3	(1.07)	-45%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oak Ridge									<b>\$</b> 31	2.0	15.4	2.8	0.80	40%
	Modernization of Laboratory Facilities	1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.5	18.7	1.1	0.58	116%
MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S15         0.4         33.0         1.0           P)         D         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S15         0.4         33.0         0.1         0.0         10           P)         D         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S25         2.3         10.8         1.6         1           P5         D         D         No         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S57         2.3         10.8         1.6         1         1         No         Low         10         No         10         No         10         No         10         No         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	SING II	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	0.7	0.22	44%
p)         (m)	SNS Instruments (SING)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	1.0	0.56	139%
P5F)         23         10.8         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6 <td>SNS Power Upgrade (07PUP)</td> <td>0</td> <td>MIE</td> <td>Low</td> <td>DOE M&amp;O (Non-Profit)</td> <td>Fixed-price (firm, no incentive)</td> <td>No</td> <td>Low</td> <td>Low</td> <td>\$0</td> <td>0.6</td> <td>0.4</td> <td>0.0</td> <td>(0.56)</td> <td>-93%</td>	SNS Power Upgrade (07PUP)	0	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.0	(0.56)	-93%
PSF)         3         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Gas         2.3         10.8         1.6         4.0           ruments(USI)         1         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         557         2.9         19.6         4.0           ruments(USI)         1         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         551         2.9         6.7         0.7         10           e(CLS)         3         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         551         2.0         2.3         3.1         1.1         0.7           e(CLS)         3         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         2.7         2.3         3.1         1.1         0.7         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.0         1.1 <td< td=""><td>Pacific Northwest</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$25</td><td>2.3</td><td>10.8</td><td>1.6</td><td>(0.71)</td><td>-31%</td></td<>	Pacific Northwest									\$25	2.3	10.8	1.6	(0.71)	-31%
Image: Name	Physical Sciences Facility (PSF)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	1.6	(0.71)	-31%
ence instruments (USI)         1         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Vo         S6         0.9         6.7         0.7           glt Source (LCIS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S1         2.0         2.4         3.3           grade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S1         2.0         2.4         3.3           grade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S1         2.0         2.4         3.3         1.1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>Stanford Linear Accelerator</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$57</td> <td>2.9</td> <td>19.6</td> <td>4.0</td> <td>1.09</td> <td>38%</td>	Stanford Linear Accelerator									\$57	2.9	19.6	4.0	1.09	38%
ight Source (LCLS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.5.4         3.3           State         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	LCLS Ultrafast Science Instruments (LUSI)	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	0.7	(0.18)	-20%
Grade         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         212         2.7         4.3         1.1           Engineering Development Facility (TEDF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         201         1.6         7.0         1.0           Engineering Development Facility (TEDF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         50         1.1         0.2         0.0	Linac Coherent Light Source (LCLS)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$5 <b>1</b>	2.0	25.4	3.3	1.27	64%
2         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         S11         1.6         7.0         1.0           0         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         S0         1.1         0.2         0.0	Thomas Jefferson									\$12	2.7	4.3	1.1	(1.61)	-60%
0 Const Low DOE M&O (Non-Profit) Fixed-price (firm, no incentive) No Low Low 50 1.1 0.2 0.0	12 GeV CEBAF Upgrade	2	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6	7.0	1.0	(0.56)	-35%
	Technology and Engineering Development Facility (TEDF)	•	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	1.1	0.2	0.0	(1.06)	-96%

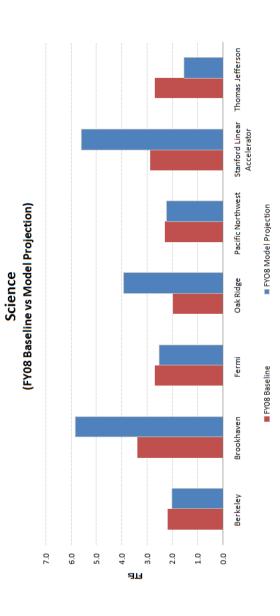
### Productivity Factor At \$15.0M/FTE



Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc	\$205	18.2	11.3	19.7	1.50	8%
Berkeley	\$20	2.2	0'6	1.7	(0.52)	-24%
Brookhaven	\$45	3.4	13.1	4.9	1.47	43%
Fermi	\$17	2.7	6.3	2.1	(0.60)	-22%
Oak Ridge	\$31	2.0	15.4	3.3	1.27	63%
Pacific Northwest	\$25	2.3	10.8	1.9	(0.44)	-19%
Stanford Linear Accelerator	\$57	2.9	19.6	4.7	1.76	61%
Thomas Jefferson	<b>\$12</b>	2.7	4.3	1.3	(1.43)	-53%

	Type HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory niqueness Involvement	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
SC							\$205	18.2	11.3	19.7	1.50	8%
Berkeley							\$20	2.2	0.0	1.7	(0.52)	-24%
Building 51 and Bevatron D&D 3 D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8	10.9	0.6	(0.19)	-23%
Seismic Safety Phase 2 0 Const	t Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	0.4	(0.40)	-50%
Transmission Electron Aberration–Corrected Microscope (TEAM) 3 MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	0.3	(0.01)	-2%
ALS User Support Building (USB) 3 Const	t Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	ŝ	0.3	16.5	0.4	0.07	24%
Brookhaven							\$45	3.4	13.1	4.9	1.47	43%
Interdisciplinary Science Building – Phase I 0 Const	t Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5	1.0	0.1	(0.40)	-80%
National Synchrotron Light Source (NSLS – II) 2 Const	t Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$	2.9	15.2	4.8	1.87	64%
Fermi							\$17	2.7	6.3	2.1	(09.0)	-22%
Ground – Based Dark Energy Experiement (GBDEE) (DES) 2 MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.3	18.3	0.6	0.25	83%
NUMI Off – Axis Neutrino (v) Appearance (NOVA) 1 MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	1.5	(0.85)	-36%
Oak Ridge							\$31	2.0	15.4	3.3	1.27	63%
Modernization of Laboratory Facilities 1 Const	t Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.5	18.7	1.3	0.76	152%
SING II 1 MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	0.8	0.34	68%
SNS Instruments (SING) 3 MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	1.1	0.71	179%
SNS Power Upgrade (07PUP) 0 MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.1	(0.55)	-91%
Pacific Northwest							<b>\$</b> 25	2.3	10.8	1.9	(0.44)	-19%
Physical Sciences Facility (PSF) 3 Const	t Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	1.9	(0.44)	-19%
Stanford Linear Accelerator							\$57	2.9	19.6	4.7	1.76	61%
LCLS Ultrafast Science Instruments (LUSI) 1 MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	0.8	(0.06)	-7%
Linac Coherent Light Source (LCLS) 3 Const	t Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$51	2.0	25.4	3.8	1.82	91%
Thomas Jefferson							\$12	2.7	4.3	1.3	(1.43)	-53%
12 GeV CEBAF Upgrade 2 Const	t Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6	7.0	1.2	(0.38)	-24%
Technology and Engineering Development Facility (TEDF) 0 Const	t Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	1.1	0.2	0.1	(1.05)	-95%

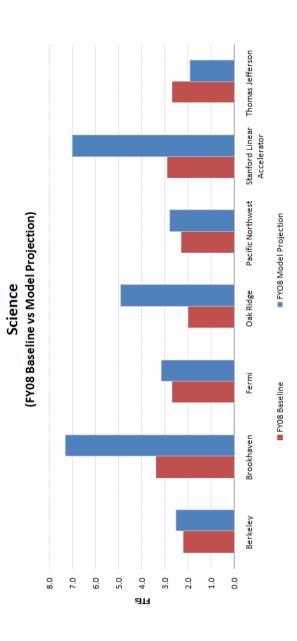
# Productivity Factor At \$12.5M/FTE



Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc	\$205	18.2	11.3	23.6	5.43	30%
Berkeley	\$20	2.2	9.0	2.0	(0.18)	-8%
Brookhaven	\$45	3.4	13.1	5.8	2.44	72%
Fermi	\$17	2.7	6.3	2.5	(0.18)	-1%
Oak Ridge	<b>\$</b> 31	2.0	15.4	3.9	1.92	96%
Pacific Northwest	\$25	2.3	10.8	2.2	(0.07)	-3%
Stanford Linear Accelerator	\$57	2.9	19.6	5.6	2.69	63%
Thomas Jefferson	\$12	2.7	4.3	1.5	(1.18)	-44%

111200101201201201201111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111111 <t< th=""><th>Program / Site Office / Project</th><th>Project Phase</th><th>: Project Type</th><th>HST</th><th>Project Execution</th><th>Contract Type</th><th>Project Uniqueness</th><th>Project Regulatory niqueness Involvement</th><th>External Influence</th><th>FY08 \$M</th><th>FY08 Fed FTEs</th><th>PF (FY08\$ / FY08 Fed FTEs)</th><th>FTEs - Model Projection</th><th>FY08 Gap</th><th>Pct Diff</th></t<>	Program / Site Office / Project	Project Phase	: Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory niqueness Involvement	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
and develormentationabbDefection (sub)Evelopmentation)aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	sc									\$205	18.2	11.3	23.6	5.43	30%
and Releation O&D         tow         DE         Mode         Low         Do         Low         Low         Do         Do         Low         Do         Low         Do         Do         Low         Do         DO <th< td=""><td>Berkeley</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><b>\$</b>20</td><td>2.2</td><td>0.0</td><td>2.0</td><td>(0.18)</td><td>-8%</td></th<>	Berkeley									<b>\$</b> 20	2.2	0.0	2.0	(0.18)	-8%
etc         Doc         Const         Low         DOC MAO (Sub)         Fixed-price (frm, no incentive)         No         Low         Si         Cosl         2.5         0.5         0.5           on Elettrom Adterration-Corrected Microscope (TEAM)         A mile         Low         DOC MAO (Sub)         Fixed-price (frm, no incentive)         No         Low         Cost         Cosl         Low         DOC MAO (Sub)         Fixed-price (frm, no incentive)         No         Low         Si         Cosl         3.3         13.4         Si         Si <td>Building 51 and Bevatron D&amp;D</td> <td>3</td> <td>D&amp;D</td> <td>Low</td> <td>DOE M&amp;O (Sub)</td> <td>Fixed-price (firm, no incentive)</td> <td>No</td> <td>Low</td> <td>Low</td> <td>6\$</td> <td>0.8</td> <td></td> <td>0.7</td> <td>(0.07)</td> <td>-8%</td>	Building 51 and Bevatron D&D	3	D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8		0.7	(0.07)	-8%
Indication Mentalion-Corrected Microscope (TEAM)         3         Mile         Low         DOE M&B(Non-Porterity)         Exect Prace (tirm, no incentive)         No         Low         Sd         Gl         Gl         Gl         DOE M&B(Non-Porterity)         Exect Prace (tirm, no incentive)         No         Low         Sd         Gl         Gl         Gl         DOE M&B(Non-Porterity)         Exect Prace (tirm, no incentive)         No         Low         Sd         Gl         Gl         Gl         Gl         Sd         Gl         Gl         Gl         Sd         Gl         Gl         Sd         Gl         Sd         Gl         Sd         Gl         Sd	Seismic Safety Phase 2	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	0.5	(0.32)	-40%
opport Building (US)         3         Const         Low         DoE M&O (Non-Profit)         Fixed-price (frm, no incentive)         No         Low         Size         G3         G1S         G1S         G1S           Imary Stenee Building -Phase I         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (frm, no incentive)         No         Low         Size         C3         13.0         C3         Size         Size<	Transmission Electron Aberration–Corrected Microscope (TEAM)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	0.4	0.05	17%
	ALS User Support Building (USB)	m	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	٩	Low	Low	ŝ	0.3	16.5	0.4	0.15	49%
	Brookhaven									\$45	3.4	13.1	5.8	2.44	72%
	Interdisciplinary Science Building – Phase I	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5		0.1	(0.38)	-76%
Based Dark Feregy Experiment (GBDEE) (DES)IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII <t< td=""><td>National Synchrotron Light Source (NSLS – II)</td><td>2</td><td>Const</td><td>Med</td><td>DOE M&amp;O (Sub)</td><td>Fixed-price (firm, no incentive)</td><td>No</td><td>Low</td><td>Low</td><td>\$44</td><td>2.9</td><td></td><td>5.7</td><td>2.82</td><td>97%</td></t<>	National Synchrotron Light Source (NSLS – II)	2	Const	Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$44	2.9		5.7	2.82	97%
Based Dark Energy Experiement (GBDEE) (DE5)2MileLowDOE M&O (Sub)Fixed-price (firm, no incentive)NoLowLowSol0.313.30.07 $- Axis Neutrino (y) Appearance (NOvA)1NieLowDOE M&O (Sub)Fixed-price (firm, no incentive)NoLowSi212.44.81.91- Axis Neutrino (y) Appearance (NOvA)1NieLowDOE M&O (Sub)Fixed-price (firm, no incentive)NoLowSi212.44.83.91.91.9- Axis Neutrino (y) Appearance (NOvA)1NieLowDOE M&O (Sub)Fixed-price (firm, no incentive)NoLowSi212.44.83.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.91.9$	Fermi									\$17	2.7	6.3	2.5	(0.18)	-7%
	Ground – Based Dark Energy Experiement (GBDEE) (DES)	2	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.3		0.7	0.36	120%
	NUMI Off – Axis Neutrino (v) Appearance (NOvA)	1	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	1.9	(0.54)	-23%
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oak Ridge									\$31	2.0	15.4	3.9	1.92	<del>8</del> 6%
Image: Mark (Mark (	Modernization of Laboratory Facilities	1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6Ş	0.5	18.7	1.5	1.01	202%
mill         mill         low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S15         0.4         33.0         1.3           P)         mill         low         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S15         0.4         33.0         0.3         2.3         1.03         2.2         1.3         1.3           P5H         1         No         Dot         No         Iow         Low         Vo         S2         2.3         1.03         2.2         1.3         1.3           P5H         1         No         Dot         Low         Low         Low         Vo         Vo         Vo         Vo         2.3         1.03         2.2         1.0         1.0         1.0         No	SING II	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	1.0	0.51	102%
p)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b)(b	SNS Instruments (SING)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	1.3	0.94	234%
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	SNS Power Upgrade (07PUP)	•	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.1	(0.54)	%06-
PSF)         3         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S25         2.3         10.8         2.2           ruments (LUSI)         1         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S57         2.9         19.6         5.6           ruments (LUSI)         1         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         551         2.0         2.9         6.7         1.0           e (CLS)         3         Const         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         551         2.0         2.3         4.6         4.6           e (CLS)         1         No         Low         Low         Low         S1         2.0         2.5         4.6         4.6         4.6           e (CLS)         1         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         551         2.0         2.3         4.5         4.6           e (CLS)         0         Const         Low         DOE M&0 (Non-Pr	Pacific Northwest									<b>\$</b> 25	2.3	10.8	2.2	(0.07)	-3%
Image: Name	Physical Sciences Facility (PSF)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	2.2	(0.07)	-3%
ence instruments (USI)         1         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S6         0.9         6.7         1.0           ight Source (LCIS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.3         4.4         4.6           grade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         512         2.0         2.3         4.5         4.6           grade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         512         2.0         2.3         4.5         4.6           for grade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S0         1.1         7.2         1.5         7.1         1.5         7.5         1.5         7.5         1.5         7.5         1.5         7.5         1.5         7.5         1.5         7.5         1.5         7.5         1.5         7.5         1.	Stanford Linear Accelerator									\$57	2.9	19.6	5.6	2.69	93%
ight Source (LCLS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.5.4         4.6           3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S21         2.0         2.5.4         4.6         4.5         4.5         4.3         1.5         7.3         1.5         7.3         1.5         7.3         1.5         7.3         1.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5         7.5 </td <td>LCLS Ultrafast Science Instruments (LUSI)</td> <td>1</td> <td>MIE</td> <td>Low</td> <td>DOE M&amp;O (Non-Profit)</td> <td>Fixed-price (firm, no incentive)</td> <td>No</td> <td>Low</td> <td>Low</td> <td>\$6</td> <td>0.9</td> <td>6.7</td> <td>1.0</td> <td>0.11</td> <td>12%</td>	LCLS Ultrafast Science Instruments (LUSI)	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	1.0	0.11	12%
Engineering Development Facility (TEDF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         512         2.7         4.3         1.5         Profit         Engineering Development Facility (TEDF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         511         1.6         7.0         1.5         Profit	Linac Coherent Light Source (LCLS)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$5 <b>1</b>	2.0	25.4	4.6	2.58	129%
2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         216         7.0         1.5           0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         50         1.1         0.2         0.1	Thomas Jefferson									\$12	2.7	4.3	1.5	(1.18)	-44%
0 Const Low DOE M&O (Non-Profit) Fixed-price (firm, no incentive) No Low Low 50 1.1 0.2 0.1	12 GeV CEBAF Upgrade	2	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6		1.5	(0.14)	%6-
	Technology and Engineering Development Facility (TEDF)	•	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	1.1	0.2	0.1	(1.04)	-94%

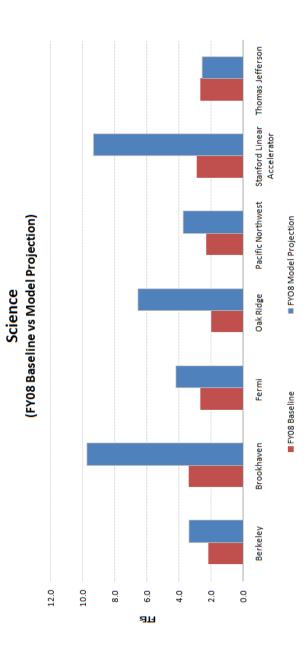
# Productivity Factor At \$10.0M/FTE



Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc	\$205	18.2	11.3	29.5	11.34	62%
Berkeley	\$20	2.2	0'6	2.5	0.32	15%
Brookhaven	\$45	3.4	13.1	7.3	3.90	115%
Fermi	\$17	2.7	6.3	3.1	0.45	16%
Oak Ridge	<b>\$</b> 31	2.0	15.4	4.9	2.90	145%
Pacific Northwest	\$25	2.3	10.8	2.8	0.49	21%
Stanford Linear Accelerator	\$57	2.9	19.6	7.0	4.09	141%
Thomas Jefferson	<b>\$12</b>	2.7	4.3	1.9	(67.0)	-29%

SC Berkeley Building 51 and Bevatron D&D 3 D&D Low D0 Seismic Safety Phase 2 0 Const Low D0		Contract Type	Uniqueness I	rioject negulatory cotenial Uniqueness Involvement Influence	nfluence	FY08 \$M	FTUO FE	FY08 Fed FTEs)	Model Projection	FY08 Gap	Pct Diff
851and Bevatron D&D 200 23 D&D 200 25 Safety Phase 2 0 Const Low						\$205	18.2	11.3	29.5	11.34	62%
3 D&D Low 0 Const Low						\$20	2.2	9.0	2.5	0.32	15%
0 Const Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8	10.9	0.9	0.12	15%
	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	0.6	(0.20)	-24%
Transmission Electron Aberration–Corrected Microscope (TEAM) 3 MIE Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	0.4	0.14	47%
ALS User Support Building (USB) 3 Const Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	N	Low	Low	ŝ	0.3	16.5	0.6	0.26	86%
Brookhaven						\$45	3.4	13.1	7.3	3.90	115%
Interdisciplinary Science Building – Phase I 0 Const Low D(	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5	1.0	0.2	(0.35)	-70%
National Synchrotron Light Source (NSLS – II) 2 Const Med D(	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$45	2.9	15.2	7.2	4.25	147%
Fermi			-			\$17	2.7	6.3	3.1	0.45	16%
Ground – Based Dark Energy Experiement (GBDEE) (DES) 2 MIE Low D(	DOE M&O (Sub)	Fixed-price (firm, no incentive)	N	Low	Low	\$6	0.3	18.3	0.8	0.53	175%
NUMI Off – Axis Neutrino (v) Appearance (NOVA) 1 MIE Low D(	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	2.3	(0.08)	-3%
Oak Ridge						\$31	2.0	15.4	4.9	2.90	145%
Modernization of Laboratory Facilities 1 Const Low D(	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.5	18.7	1.9	1.39	278%
SING II T MIE Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	1.3	0.76	152%
SNS Instruments (SING) 3 MIE Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	1.7	1.27	318%
SNS Power Upgrade (07PUP) 0 MIE Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.1	(0.52)	-87%
Pacific Northwest						<b>\$25</b>	2.3	10.8	2.8	0.49	21%
Physical Sciences Facility (PSF) 3 Const Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	2.8	0.49	21%
Stanford Linear Accelerator						\$57	2.9	19.6	7.0	4.09	141%
LCLS Ultrafast Science Instruments (LUSI) 1 MIE Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	1.3	0.36	40%
Linac Coherent Light Source (LCLS) 3 Const Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$51	2.0	25.4	5.7	3.73	186%
Thomas Jefferson						<b>\$12</b>	2.7	4.3	1.9	(0.79)	-29%
12 GeV CEBAF Upgrade 2 Const Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6	7.0	1.8	0.23	14%
Technology and Engineering Development Facility (TEDF) 0 Const Low DOE N	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	1.1	0.2	0.1	(1.02)	-93%

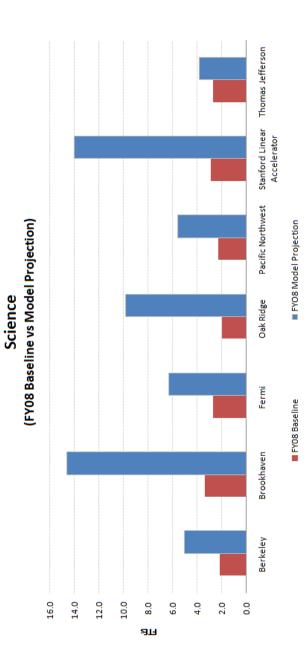




Program / Site Office / Project SC	FY08 \$M \$205	FY08 Fed FTEs 18.2	PF (FY08\$ / FY08 Fed FTEs) 11.3	FTEs - Model Projection 39.4	FY08 Gap 21.19	Pct Diff 116%
Berkeley	\$20	2.2	9.0	3.4	1.16	53%
Brookhaven	\$45	3.4	13.1	2'6	6.34	186%
Fermi	<b>/1</b> \$	2.7	6.3	4.2	1.49	55%
Oak Ridge	\$31	2.0	15.4	6.5	4.53	227%
Pacific Northwest	\$25	2.3	10.8	3.7	1.42	62%
Stanford Linear Accelerator	<b>\$</b> 57	2.9	19.6	9.3	6.41	221%
Thomas Jefferson	\$12	2.7	4.3	2.5	(0.16)	-6%

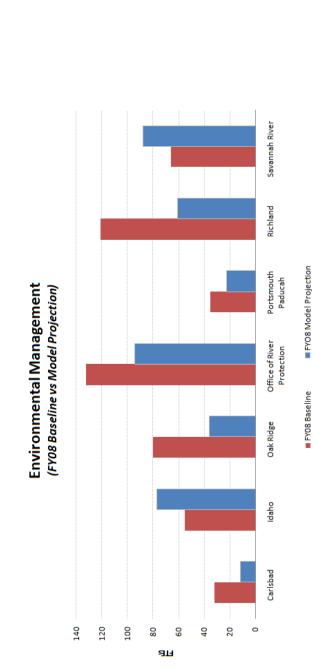
Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc									\$205	18.2	11.3	39.4	21.19	116%
Berkeley									\$20	2.2	9.0	3.4	1.16	53%
Building 51 and Bevatron D&D	°	D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.8	10.9	1.2	0.42	53%
Seismic Safety Phase 2	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	0.8	0.01	1%
Transmission Electron Aberration–Corrected Microscope (TEAM)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	0.6	0.29	896
ALS User Support Building (USB)	m	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	ŝ	0.3	16.5	0.7	0.44	148%
Brookhaven									\$45	3.4	13.1	9.7	6.34	186%
Interdisciplinary Science Building – Phase I	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5	1.0	0.2	(0:30)	-60%
National Synchrotron Light Source (NSLS – II)	2	Const	Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$45	2.9	15.2	9.5	6.63	229%
Fermi									\$17	2.7	6.3	4.2	1.49	55%
Ground – Based Dark Energy Experiement (GBDEE) (DES)	2	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.3	18.3	1.1	0.80	267%
NUMI Off – Axis Neutrino (v) Appearance (NOvA)	1	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	3.1	0.69	29%
Oak Ridge									\$31	2.0	15.4	6.5	4.53	227%
Modernization of Laboratory Facilities	1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$ <del>3</del>	0.5	18.7	2.5	2.02	404%
SING II	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	1.7	1.18	236%
SNS Instruments (SING)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	2.2	1.83	457%
SNS Power Upgrade (07PUP)	0	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.1	(0.50)	-83%
Pacific Northwest									<b>\$</b> 25	2.3	10.8	3.7	1.42	62%
Physical Sciences Facility (PSF)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	3.7	1.42	62%
Stanford Linear Accelerator									\$57	2.9	19.6	9.3	6.41	221%
LCLS Ultrafast Science Instruments (LUSI)	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	1.7	0.78	87%
Linac Coherent Light Source (LCLS)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$51	2.0	25.4	7.6	5.63	282%
Thomas Jefferson									<b>\$12</b>	2.7	4.3	2.5	(0.16)	-6%
12 GeV CEBAF Upgrade	2	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6	7.0	2.4	0.84	52%
Technology and Engineering Development Facility (TEDF)	0	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	1.1	0.2	0.1	(1.00)	-91%





Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
sc	\$205	18.2	11.3	59.1	40.89	225%
Berkeley	\$20	2.2	0.9	5.0	2.84	129%
Brookhaven	\$ <b>4</b> 5	3.4	13.1	14.6	11.20	329%
Fermi	<b>21</b> \$	2.7	6.3	6.3	3.59	133%
Oak Ridge	<b>\$</b> 31	2.0	15.4	9.8	7.80	390%
Pacific Northwest	\$22	2.3	10.8	5.6	3.27	142%
Stanford Linear Accelerator	<b>¢</b> 21	2.9	19.6	14.0	11.07	382%
Thomas Jefferson	\$12	2.7	4.3	3.8	1.11	41%

K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K         K	Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory Jniqueness Involvement	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
	sc									\$205	18.2	11.3	59.1	40.89	225%
	Berkeley									\$20	2.2	0.0	5.0	2.84	129%
	Building 51 and Bevatron D&D	3	D&D	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$ <del>\$</del>	0.8	10.9	1.8	1.04	130%
	Seismic Safety Phase 2	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$2	0.8	2.5	1.2	0.41	51%
	Transmission Electron Aberration–Corrected Microscope (TEAM)	ñ	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	0.3	13.3	6.0	0.58	193%
MotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotorMotor <th< td=""><td>ALS User Support Building (USB)</td><td>m</td><td>Const</td><td>Low</td><td>DOE M&amp;O (Non-Profit)</td><td>Fixed-price (firm, no incentive)</td><td>No</td><td>Low</td><td>Low</td><td>ŝ</td><td>0.3</td><td>16.5</td><td>1.1</td><td>0.81</td><td>272%</td></th<>	ALS User Support Building (USB)	m	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	ŝ	0.3	16.5	1.1	0.81	272%
display         Science Building-Phase1         0         Const         Low         DOE M&G(Sub)         Fixed-price (firm, no incentive)         No         Low         Size         Display         Size         Display         Size         Display         Size         Display         Size         Display         Size         Display	Brookhaven									\$45	3.4	13.1	14.6	11.20	329%
onal Synchrotron Light Source (NSLS-11)         2         Const         Med         DOE M&O(SUb)         Fixed-price (firm, no incentive)         No         Low         S41         2.2         6.3         6.3           nd Based Dark FinegyErgentement (SBDEE) (DSS)         2         Med         DOE M&O(Sub)         Fixed-price (firm, no incentive)         No         Low         S11         2.7         6.3         6.3         6.3           nd Based Dark FinegyErgentement (SBDEE) (DSS)         1         Med         Low         DOE M&O(Sub)         Fixed-price (firm, no incentive)         No         Low         S12         2.4         4.8         4.6           dige         1         ME         Low         DOE M&O(Sub)         Fixed-price (firm, no incentive)         No         Low         S12         2.4         4.8         4.6           dige         1         ME         Low         DOE M&O(Sub)         Fixed-price (firm, no incentive)         No         Low         S12         2.4         4.8         4.6           difformatics         1         ME         Low         DOE M&O(Non-Price)         Fixed-price (firm, no incentive)         No         Low         No         No         No         No         No         No         No         No	Interdisciplinary Science Building – Phase I	0	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$1	0.5	1.0	0.3	(0.20)	-40%
	National Synchrotron Light Source (NSLS – II)	2	Const	Med	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$44	2.9	15.2	14.3	11.40	393%
Based Dark Energy Experiement (GBDEE) (DES)         Image         Low         Dow         Low         Low         Sol         G3<         13.3         1.7           -Axis Neutrino (y Appearance (NOvA)         1         Nile         Low         DOE M&O (Sub)         Fixed-price (firm, no incentive)         No         Low         Si2         2.4         4.8         4.6           -Axis Neutrino (y Appearance (NOvA)         1         Nile         Low         DOE M&O (Sub)         Fixed-price (firm, no incentive)         No         Low         Si2         2.4         4.8         4.6         Pice	Fermi									\$17	2.7	6.3	6.3	3.59	133%
- Axis Neutrino (v) Appearance (NOva)         I         Mile         Low         DOE M&O (Sub)         Eved-price (firm, no incentive)         No         Low         S12         2.4         4.8         4.6         9.6           Text No transmoter (NOva)         1         Mile         Low         DOE M&O (Sub)         Fixed-price (firm, no incentive)         No         Low         S13         2.0         3.4         9.8         9.8           ments (SING)         1         Mile         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S13         2.0         3.8         2.9         2.3         3.8         5.6         3.3           unents (SING)         3         Mile         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S10         S23         3.3         3.8         S6         0.3         3.3         Mile         S64         S6	Ground – Based Dark Energy Experiement (GBDEE) (DES)	2	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.3	18.3	1.7	1.35	450%
And the function of the funct	NUMI Off – Axis Neutrino (v) Appearance (NOvA)	1	MIE	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	\$12	2.4	4.8	4.6	2.24	93%
$\gamma$ facilities1ConstLowDOE M&O (Sub)Exed-price (firm, no incentive)NoLowLowSo0.51.8.73.83.8 $\gamma$ 1MitLowDOE M&O (Non-Priorit)Fixed-price (firm, no incentive)NoLowSo0.51.2.02.52.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.32.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.42.4 <td>Oak Ridge</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$31</td> <td>2.0</td> <td>15.4</td> <td>9.8</td> <td>7.80</td> <td>390%</td>	Oak Ridge									\$31	2.0	15.4	9.8	7.80	390%
Image: Mode Constraints         Image: Mode Constraints         Eved-price (firm, no incentive)         No         Low         Cos         12.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0         23.0	Modernization of Laboratory Facilities	1	Const	Low	DOE M&O (Sub)	Fixed-price (firm, no incentive)	No	Low	Low	6\$	0.5	18.7	3.8	3.28	656%
model         model         low         DOE M&0 (Non-Profit)         Exed-price (firm, no incentive)         No         Low         S15         0.4         38.0         33.1           P)         model         uw         low         DOE M&0 (Non-Profit)         Exed-price (firm, no incentive)         No         Low         S15         0.4         38.0         0.3         33.1           SF)         model         uw         low         DOE M&0 (Non-Profit)         Exed-price (firm, no incentive)         No         Low         S25         2.3         10.8         5.6           Monthly Ell         i         i         i         uw         low         DOE M&0 (Non-Profit)         Exed-price (firm, no incentive)         No         Low         S57         2.3         10.8         5.6           uments (LUS)         i         mole         uw         DOE M&0 (Non-Profit)         Exed-price (firm, no incentive)         No         Low         S57         2.9         10.6         7.5           uments (LUS)         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i         i	SING II	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.5	12.0	2.5	2.02	404%
p)         molicity         low         MIE         Low         DOE M&0 (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S0         0.6         0.4         0.2           P51         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	SNS Instruments (SING)	3	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$15	0.4	38.0	3.3	2.94	736%
P5P         Canst low         DEM&O (Non-Profit)         Fixed-price (firm, no incentive)         No         2/25         2.3         10.8         5.6           P5P         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2	SNS Power Upgrade (07PUP)	0	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$0	0.6	0.4	0.2	(0.45)	-74%
PSF)         0         Const         Low         DOE M&Q (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Gas         23         10.8         5.6         3.10           uments(USI)         1         MIE         Low         DOE M&Q (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         577         2.9         10.8         7.0         10.         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         11         10         11         11         11         11         10         10         10         10         10         10         10         10         10         11         11 <td< td=""><td>Pacific Northwest</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><b>\$</b>25</td><td>2.3</td><td>10.8</td><td>5.6</td><td>3.27</td><td>142%</td></td<>	Pacific Northwest									<b>\$</b> 25	2.3	10.8	5.6	3.27	142%
uments (LUS)         1         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Sol         2.9         19.6         14.0         0           e (LCLS)         1         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Sol         0.9         6.7         2.5         14.0         7.5           e (LCLS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Sol         2.5         1.1.5         3.5         3.5           a         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         Sol         2.5         4.3         3.8           a         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         Sol         2.5         4.3         3.8           a         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         Sol         2.5         4.3         3.8         5         3.6         5 <td>Physical Sciences Facility (PSF)</td> <td>'n</td> <td>Const</td> <td>Low</td> <td>DOE M&amp;O (Non-Profit)</td> <td>Fixed-price (firm, no incentive)</td> <td>No</td> <td>Low</td> <td>Low</td> <td>\$25</td> <td>2.3</td> <td>10.8</td> <td>5.6</td> <td>3.27</td> <td>142%</td>	Physical Sciences Facility (PSF)	'n	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$25	2.3	10.8	5.6	3.27	142%
ence instruments (USI)         1         MIE         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Vo         S         0.9         6.7         2.5           gitt Source (LCIS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.3         4.3         3.3         3.8           gitt Source (LCIS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.3         3.8           gittede         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         2.7         4.3         3.8           Gittede         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         2.0         2.1         4.3         3.8           Gittede         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Low         2.0         2.1         2.0         3.7 <td>Stanford Linear Accelerator</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$57</td> <td>2.9</td> <td>19.6</td> <td>14.0</td> <td>11.07</td> <td>382%</td>	Stanford Linear Accelerator									\$57	2.9	19.6	14.0	11.07	382%
ight Source (LCLS)         3         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S31         2.0         2.4         11.5           8         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	LCLS Ultrafast Science Instruments (LUSI)	1	MIE	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$6	0.9	6.7	2.5	1.62	180%
sgrade         \$12         2.7         4.3         3.8         3.8           sgrade         2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         \$11         1.6         7.0         3.7         4.3         3.8           Engineering Development Facility (TEEF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         \$11         1.6         7.0         3.7	Linac Coherent Light Source (LCLS)	3	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$51	2.0	25.4	11.5	9.45	473%
2         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         Can         511         1.6         7.0         3.7           ering Development Facility (TEDF)         0         Const         Low         DOE M&O (Non-Profit)         Fixed-price (firm, no incentive)         No         Low         S0         1.1         0.2         0.2         (	Thomas Jefferson									\$12	2.7	4.3	3.8	1.11	41%
0 Const Low DDE M&O (Non-Profit) Fixed-price (firm, no incentive) No Low Low 50 1.1 0.2 0.2	12 GeV CEBAF Upgrade	2	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$11	1.6	7.0	3.7	2.06	129%
	Technology and Engineering Development Facility (TEDF)	•	Const	Low	DOE M&O (Non-Profit)	Fixed-price (firm, no incentive)	No	Low	Low	\$	1.1	0.2	0.2	(0.94)	-86%



ENVIRONMENTAL MANAGEMENT: APPLICATION OF STAFFING MODEL TO FY2008 DATA AT VARYING PRODUCTIVITY FACTORS

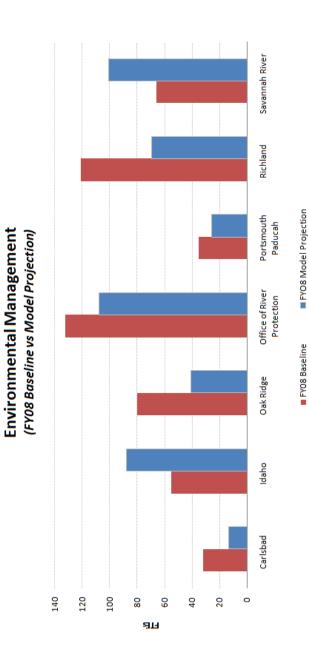
Productivity Factor At \$20.0M/FTE

Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM	\$5,329	602.9	8.8	435.3	(167.63)	-28%
Brookhaven	<b>\$</b> 25	5.1	4.9	1.8	(3.30)	-65%
Carlsbad	<b>\$160</b>	32.0	5.0	11.8	(20.20)	-63%
Idaho	<b>\$</b> 949	55.4	17.1	76.8	21.37	39%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	1.0	(5.97)	-85%
Livermore	<b>\$</b> 9	1.2	7.2	0.6	(0.56)	-47%
Los Alamos	<b>\$</b> 381	26.4	14.4	28.2	1.81	7%
Nevada	<b>\$100</b>	21.1	4.8	7.4	(13.71)	-65%
Oak Ridge	<b>\$4</b> 35	80.0	5.4	36.0	(43.98)	-55%
Oakland	<b>\$18</b>	12.8	1.4	1.3	(11.48)	-90%
Offlice of River Protection	<b>\$</b> 958	132.6	7.2	94.2	(38.39)	-29%
Pantex	<b>\$</b> 26	2.3	11.4	1.9	(0.36)	-16%
Portsmouth/Paducah	<b>\$</b> 283	35.0	8.1	22.5	(12.46)	-36%
Richland	<b>\$</b> 831	120.9	6.9	6.03	(60.02)	-50%
Sandia	<b>\$</b> 2	0.7	3.5	0.2	(0.52)	-74%
Savannah River	<b>\$1,102</b>	65.7	16.8	87.9	22.20	34%
UMTRA	<b>\$</b> 36	4.7	1.1	2.7	(2.04)	-43%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									<b>\$5,329</b>	602.9	8.8	435.3	(167.63)	-28%
Brookhaven									\$25	5.1	4.9	1.8	(3.30)	-65%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	'n	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	1.8	(3.30)	-65%
Carlsbad									\$160	32.0	5.0	11.8	(20.20)	-63%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	9.6	(10.71)	-53%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	2.2	(6.49)	-81%
Idaho									<b>\$949</b>	55.4	17.1	76.8	21.37	39%
Non – Nuclear Facility D&D – INL	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$0	4.1	0.0	0.0	(4.09)	-100%
Nuclear Facility D&D – INL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	4.9	0.68	16%
Nuclear Material Stabilization and Disposition	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 2	6.5	0.3	0.2	(6.34)	-98%
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$182</b>	4.9	37.1	17.9	13.03	266%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	2.8	(0.98)	-26%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	26.2	18.14	224%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	9.3	(2.86)	-23%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	15.4	3.79	33%
Knolls Atomic Power Laboratory SPRU									<b>\$1</b> 3	7.0	1.9	1.0	(5.97)	-85%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$1</b> 3	7.0	1.9	1.0	(5.97)	-85%
Livermore									\$9	1.2	7.2	0.6	(0.56)	-47%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	6\$	1.2	7.2	0.6	(0.56)	-47%
Los Alamos									\$381	26.4	14.4	28.2	1.81	7%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	2.6	(0.62)	-19%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	14.9	(2.09)	-25%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	10.7	7.51	235%
Nevada									\$100	21.1	4.8	7.4	(13.71)	-65%
Operate Waste Disposal Facility – Nevada	e	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	1.5	(4.31)	-74%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	4.5	(6.69)	-60%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	1.4	(2.70)	-66%
Oak Ridge									\$435	80.0	5.4	36.0	(43.98)	-55%
Downblend of U-233 in Building 3019	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$4	8.0	5.5	3.7	(4.30)	-54%
Nuclear Facility D&D – East Tennessee Technology Park	e	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$228	29.7	7.7	18.8	(10.86)	-37%
Nuclear Facility D&D – Oak Ridge National Laboratory	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	4.5	(8.82)	-66%
Nuclear Facility D&D Y-12	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	1.7	(0:30)	-85%
Soil and Water Remediation – Melton Valley	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	0.6	(3.73)	-87%
Solid Waste Stabilization and Disposition – Oak Ridge	3	ER	High	DOE M&O	DOE M&O Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	6.7	(6.97)	-51%

Oakland         Oakland         3         D&D         Low         I           Nuclear Facility D&D - Energy Technology Engineering Center         3         D&D         Low         I           Nuclear Facility D&D - Energy Technology Engineering Center         3         D&D         Low         I           Antice of River Protection         3         ER         Med         I         I           WTP         3         Const         High         I         I         Pantex         Soli and Water Remediation - Pantex         3         ER         Low         I	DOE M&O DOE M&O DOE M&O DOE Direct										
nergy Technology Engineering Center         3         D&D         Low           Naste Stabilization and Disposition - ORP (Tank Farm)         3         ER         Med           Waste Stabilization and Disposition - ORP (Tank Farm)         3         Const         High           tion - Pantex         3         Const         High	DOE M&O DOE M&O DOE M&O					\$18	12.8	1.4	1.3	(11.48)	%06-
Waste Stabilization and Disposition - ORP (Tank Farm)     3     ER     Med       3     Const     High       ion - Pantex     3     ER     Low	DOE M&O DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	1.3	(11.48)	%06-
active Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm) 3 ER Med 3 Med High 3 Const High nd Water Remediation – Pantex 3 ER Low	DOE M&O DOE Direct					\$958	132.6	7.2	94.2	(38.39)	-29%
nd Water Remediation – Pantex 3 ER Low	DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	21.6	(42.03)	-66%
nd Water Remediation – Pantex 3 ER Low		Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	<del>6</del> .9	72.6	3.65	5%
3 ER Low						\$26	2.3	11.4	1.9	(0.36)	-16%
	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$26	2.3	11.4	1.9	(0.36)	-16%
Portsmouth/Paducah						<b>\$28</b> 3	35.0	8.1	22.5	(12.46)	-36%
Depleted Uranium Hexafluoride 6 Conversion (DUF6) 2 Const Med E	DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	5.1	(4.00)	-44%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth 3 D&D Low 1	DOE M&O	Incentive (cost-reimbursement)	٩	Medium	Medium	\$167	9.1	18.4	12.1	3.04	33%
Solid Waste Stabilization and Disposition – LPP – Portsmouth 3 ER Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$45	8.8	5.1	3.3	(5.51)	-63%
Solid Waste Stabilization and Disposition – Paducah 3 ER Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$27	8.0	3.4	2.0	(5.99)	-75%
Richland						<b>\$</b> 831	120.9	6.9	6.09	(60.02)	-50%
NM Stabilization and Disposition – PFP 3 D&D Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	7.1	(10.59)	-60%
3 D&D Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	1.6	(7.49)	-82%
Nuclear Facility D&D – Remainder of Handford 3 D&D Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<del>\$99</del>	14.3	6.9	7.2	(7.14)	-50%
Nuclear Facility D&D – River Corridor Closure Project (RCCP) 3 D&D Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	15.6	(8.90)	-36%
SNF Stabilization and Disposition (K Basin Closure – KBC) 3 ER Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	7.4	(8.74)	-54%
Soil and Water Remediation – Groundwater/Vadose Zone 3 ER Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	5.3	(13.66)	-72%
Solid Waste Stabilization and Disposition – 200 Area 3 ER Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	16.7	(3.51)	-17%
Sandia						\$2	0.7	3.5	0.2	(0.52)	-74%
Soil and Water Remediation – Sandia Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 2	0.7	3.5	0.2	(0.52)	-74%
Savannah River						\$1,102	65.7	16.8	87.9	22.20	34%
Balance of Nuclear Materials 3 ER Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	8.0	5.79	263%
Enriched Uranium Disposition Project 3 ER Med 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$23 <b>1</b>	3.2	72.3	18.2	15.01	469%
Nuclear Facility D&D – SRS 3 D&D Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	0.4	(1.46)	-77%
Plutonium Disposition Project Med I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$1	8.4	0.1	0.1	(8.27)	-98%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS 3 ER Med 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	38.6	33.37	642%
Salt Waste Processing Facility (SWPF) 2 Const Med 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	10.9	(18.15)	-63%
Soil and Water Remediation – SRS 201 and Water Remediation – SRS 201 and Water Remediation – SRS 201 and	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	5.6	3.69	194%
Solid Waste Stabilization and Disposition – SRS 3 ER Low 1	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	6.1	(7.78)	-56%
UMTRA						\$36	4.7	7.7	2.7	(2.04)	-43%
Soil and Water Remediation – Moab 3 ER Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	2.7	(2.04)	-43%

# Productivity Factor At \$17.5M/FTE

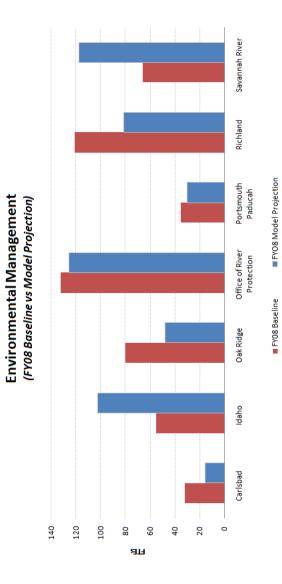


Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
	\$5,329	602.9	8.8	497.5	(105.45)	-17%
	\$25	5.1	4.9	2.1	(3.04)	-60%
	\$160	32.0	5.0	13.5	(18.51)	-58%
	\$949	55.4	17.1	87.7	32.33	58%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	1.2	(5.83)	-83%
	6\$	1.2	7.2	0.7	(0.47)	-39%
	\$381	26.4	14.4	32.2	5.83	22%
	\$100	21.1	4.8	8.5	(12.65)	-60%
	\$435	80.0	5.4	41.2	(38.84)	-49%
	<b>\$18</b>	12.8	1.4	1.5	(11.30)	-88%
Office of River Protection	\$958	132.6	7.2	107.7	(24.93)	-19%
	\$26	2.3	11.4	2.2	(60.0)	-4%
Portsmouth/Paducah	\$283	35.0	8.1	25.8	(9.24)	-26%
	\$831	120.9	6.9	69.69	(51.32)	-42%
	<b>\$</b> 2	0.7	3.5	0.2	(0.49)	-70%
	<b>\$1,102</b>	65.7	16.8	100.5	34.75	53%
	\$36	4.7	1.1	3.0	(1.66)	-35%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Unique ness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5,329	602.9	8.8	497.5	(105.45)	-17%
Brookhaven									\$25	5.1	4.9	2.1	(3.04)	-60%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	с	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	2.1	(3.04)	-60%
Carlsbad									<b>\$160</b>	32.0	5.0	13.5	(18.51)	-58%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	11.0	(9.34)	-46%
Transportation – WIP P	8	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	2.5	(9.17)	-78%
Idaho									<b>\$949</b>	55.4	17.1	87.7	32.33	58%
Non – Nuclear Facility D&D – INL	8	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	0\$	4.1	0.0	0.0	(4.09)	-100%
Nuclear Facility D&D – INL	5	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	5.6	1.38	33%
Nucle ar Material Stabilization and Disposition	5	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	6.5	0.3	0.2	(6.31)	-97%
Radio active Liquid Tank Waste Stabilization and Disposition 2012	2	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$182	4.9	37.1	20.5	15.59	318%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	3.2	(0.58)	-15%
Sodium Bearing Waste Treatment (SBWT)	5	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	30.0	21.89	270%
Soil and Water Reme diation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	10.7	(1.53)	-13%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	17.6	5.99	52%
Knolls Atomic Power Laboratory SPRU									\$13	7.0	1.9	1.2	(5.83)	-83%
Nucle ar Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$13	7.0	1.9	1.2	(5.83)	-83%
Livermore									\$ <del>3</del>	1.2	7.2	0.7	(0.47)	-39%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	¢\$	1.2	7.2	0.7	(0.47)	-39%
Los Alamos									\$3 <b>8</b> 1	26.4	14.4	32.2	5.83	22%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	3.0	(0.25)	-8%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	17.0	(2.96)	-15%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	12.2	9.04	282%
Nevada									\$100	21.1	4.8	8.5	(12.65)	-60%
Operate Waste Disposal Facility – Nevada	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	1.7	(4.10)	-71%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	5.2	(6.05)	-54%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	1.6	(2.50)	-61%
Oak Ridge									\$435	80.0	5.4	41.2	(38.84)	-49%
Downblend of U-233 in Building 3019	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	8.0	5.5	4.2	(3.77)	-47%
Nuclear Facility D&D – East Tennessee Technology Park	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$228	29.7	7.7	21.5	(8.17)	-27%
Nuclear Facility D&D – Oak Ridge National Laboratory	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	5.1	(8.18)	-62%
Nuclear Facility D&D Y–12	з	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	1.9	(90.6)	-82%
Soil and Water Reme diation – Melton Valley	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	0.6	(3.65)	-85%
Solid Waste Stabilization and Disposition – Oak Ridge	°	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	7.7	(00.9)	-44%

gineering Center         3         D&D         D0E M&D0           and Disposition - ORP (Tank Farm)         3         E.R.         Med         D0E M&D0           and Disposition - ORP (Tank Farm)         3         E.R.         Med         D0E M&D0           3         Const         High         D0E M&D0         D0E M&D0           3         Const         High         D0E M&D0           3         Const         High         D0E M&D0           3         Const         Med         D0E M&D0           3         E.R.         Med         D0E M&D0           3         D.S.D         Low         D0E M&D0           3         E.R.         Low         D0E M&D0									
nergy Technology Engineering Center         3         D&D         Low         DOE M&O           Waste Stabilization and Disposition - ORP (Tank Farm)         3         ER         Med         DOE M&O           Waste Stabilization and Disposition - ORP (Tank Farm)         3         ER         Med         DOE M&O           Maste Stabilization and Disposition - ORP (Tank Farm)         3         ER         Med         DOE M&O           Iton - Pantex         3         Const         High         DOE MedO         DOE MAO           Iton - Pantex         3         ER         Net         DOE MAO         DOE MAO           Iton - Pantex         3         ER         Low         DOE MAO         DOE MAO           Iton - Pantex         3         ER         Low         DOE MAO         DOE MAO           and Disposition Plant - Portsmouth         3         ER         Low         DOE MAO         DoE MAO           and Disposition - PPP - Portsmouth         3         ER         Low         DOE MAO         DoE MAO           and Disposition - PPP - Portsmouth         3         ER         Low         DOE MAO         DoE MAO				\$18	12.8	1.4	1.5	(11.30)	-88%
Waste Stabilization and Disposition - ORP (Tank Farm)         3         ER         Med         DOE M&O           Mode         DOE Nuts         3         Const         High         DOE Direct           Alter of the	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$18	12.8	1.4	1.5	(11.30)	-88%
ank Waste Stabilization and Disposition - ORP (Tank Fam)         3         ER         Med         DOE M&O           adiation - Pantex         3         Const         High         DOE Direct           adiation - Pantex         3         Const         High         DOE Direct           adiation - Pantex         3         ER         Low         DOE M&O           evaluation         3         FR         Low         DOE M&O           evaluation         3         ER         Low         DOE M&O           evaluation         3         ER         Low         DOE M&O           of Gaseous Diffusion Plant - Portsmouth         3         DR         Low         DOE M&O           attion and Disposition - LPP - Portsmouth         3         ER         Low         DOE M&O           attion and Disposition - PPatcatah         3         ER         Low         DOE M&O           disposition - PPatcatah         3         ER         Low         DOE M&O				\$958	132.6	7.2	107.7	(24.93)	-19%
adiation - Pantex         adiation         High         DOE Direct           ediation - Pantex         a         ER         Iow         DOE Mico           exafluoration         a         ER         Iow         DOE Mico           of Gaseous Diffusion Plant - Portsmouth         a         DR         Mico         DOE Mico           of Gaseous Diffusion Plant - Portsmouth         a         ER         Iow         DOE Mico           of Gaseous Diffusion Plant - Portsmouth         a         B         E         Iow         DOE Mico           of Gaseous Diffusion Plant - Portsmouth         a         E         Iow         DOE Mico           of Gaseous Diffusion - PPP - Portsmouth         a         E         Iow         DOE Mico           of Gaseous Diffusion - PPP - Portsmouth         a         E         Iow         DOE Mico           of Gaseous Disposition - PPP         Polation         a         Iow         DOE Mico	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$274	63.6	4.3	24.6	(38.95)	-61%
ediation – Pantex         3         ER         Low         DDE M&O           lexafluoride 6 Conversion (DUF6)         2         Const         Med         DDE M&O         I           lexafluoride 6 Conversion (DUF6)         2         Const         Med         DDE Med         I           of Gaseous Diffusion Plant – Portsmouth         3         D&D         DOE M&O         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <td>ect Incentive (cost-reimbursement)</td> <td>Yes H</td> <td>High High</td> <td>\$684</td> <td>1 69.0</td> <td>9.9</td> <td>83.0</td> <td>14.02</td> <td>20%</td>	ect Incentive (cost-reimbursement)	Yes H	High High	\$684	1 69.0	9.9	83.0	14.02	20%
ediation - Pantex         3         ER         Low         DOE M&O           rexafluoride Conversion (DUF)         2         Const         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				\$26	5 2.3	11.4	2.2	(60.0)	-4%
texafluoride 6 Conversion (DUF6)         2         Const         Med         DOE Direct         I           of Gaseous Diffusion Plant – Portsmouth         3         D&D         Due         DOE M&O         I           ation and Disposition – LPP – Portsmouth         3         E         Low         DOE M&O         I           ation and Disposition – LPP – Portsmouth         3         E         Low         DOE M&O         I           ation and Disposition – PPducah         3         E         Low         DOE M&O         I           ation and Disposition – PPducah         3         B         Low         DOE M&O         I	&O Incentive (cost-reimbursement)	No Me	Medium Medium	m \$26	2.3	11.4	2.2	(60.0)	-4%
ed Uranium Hexafluoride 6 Conversion (DUF6)         2         Const         Med         DOE Direct           Fadility D&O of Gaseous Diffusion Plant – Portsmouth         3         D&D         Dw         DOE M&O         I           aste Stabilization and Disposition – LPP – Portsmouth         3         ER         Low         DOE M&O         I           aste Stabilization and Disposition – Paducah         3         ER         Low         DOE M&O         I           aste Stabilization and Disposition – Paducah         3         D&D         Low         DOE M&O         I				<b>\$</b> 283	35.0	8.1	25.8	(9.24)	-26%
Facility 0&D of Gaseous Diffusion Plant - Portsmouth         3         D&D         Low         DOE M&O           aste Stabilization and Disposition - LPP - Portsmouth         3         ER         Low         DOE M&O         I           aste Stabilization and Disposition - LPP - Portsmouth         3         ER         Low         DOE M&O         I           aste Stabilization and Disposition - PPA-Daducah         3         ER         Low         DOE M&O         I           aste Stabilization and Disposition - PFP         Daducah         3         D&D         DE M&O         I	ect Incentive (cost-reimbursement)	No Me	Medium Medium	m \$44	9.1	4.8	5.8	(3.27)	-36%
aste Stabilization and Disposition – LPP – Portsmouth         3         ER         Low         D0E M&O           aste Stabilization and Disposition – Paducah         3         ER         Low         D0E M&O           aste Stabilization and Disposition – Paducah         3         ER         Low         D0E M&O           aste Stabilization and Disposition – Paducah         3         D         ER         Low         D0E M&O	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$167	9.1	18.4	13.9	4.77	52%
aste Stabilization and Disposition – Paducah         3         ER         Low         D0E M&O           oilization and Disposition – PFP         3         D&D         DOE M&O         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$45	8.8	5.1	3.8	(5.04)	-57%
oilization and Disposition – PFP 3 D&D Low DOE M&O	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$27	8.0	3.4	2.3	(5.70)	-71%
3 D&D Low DOE M&O				\$831	120.9	6.9	69.6	(51.32)	-42%
	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$98	17.7	5.5	8.1	(9.58)	-54%
Nuclear Facility D&D – Fast Flux Test Facility 3 D&D Med DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$21	9.1	2.3	1.8	(7.26)	-80%
Nuclear Facility D&D – Remainder of Handford 3 D&D Low DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$99	14.3	6.9	8.2	(6.12)	-43%
Nuclear Facility D&D – River Corridor Closure Project (RCCP) 3 D&D Low DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$215	24.5	8.8	17.8	(6.67)	-27%
SNF Stabilization and Disposition (K Basin Closure – KBC) 3 ER Low DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$100	16.1	6.2	8.4	(7.69)	-48%
Soil and Water Remediation – Groundwater/Vadose Zone 3 ER Low DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$72	19.0	3.8	6.1	(12.89)	-68%
Solid Waste Stabilization and Disposition – 200 Area 3 ER Low DOE M&O Inc	&O Incentive (cost-reimbursement)	No Me	Medium Medium	m \$226	20.2	11.2	19.1	(1.12)	-6%
Sandia				\$2	0.7	3.5	0.2	(0.49)	-70%
Soil and Water Remediation – Sandia 200 M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$2	0.7	3.5	0.2	(0.49)	-70%
Savannah River				\$1,102	65.7	16.8	100.5	34.75	53%
Balance of Nuclear Materials 3 ER Low DOE M&O Inc	&O Incentive (cost-reimbursement)	No	Medium Medium	m \$108	2.2	49.2	9.1	6.93	315%
Enriched Uranium Disposition Project 3 ER Med DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$231	3.2	72.3	20.8	17.61	550%
Nuclear Facility D&D – SRS 3 D&D Low DOE M&O Inc	&O Incentive (cost-reimbursement)	No	Medium Medium	m \$6	1.9	3.2	0.5	(1.40)	-74%
Plutonium Disposition Project Med DOE M&O Inc	&O Incentive (cost-reimbursement)	No Me	Medium Medium	m \$1	8.4	0.1	0.1	(8.26)	-98%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS 3 ER Med DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$490	5.2	94.2	44.1	38.88	748%
Salt Waste Processing Facility (SWPF) 2 Const Med DOE M&O Inc	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$107	29.0	3.7	12.4	(16.60)	-57%
Soil and Water Remediation – SRS 201 and Water Remediation – SRS 201 and Water Remediation – SRS 201 and 201	<pre>&amp;O Incentive (cost-reimbursement)</pre>	No Me	Medium Medium	m \$76	1.9	39.9	6.4	4.49	236%
Solid Waste Stabilization and Disposition – SRS 3 ER Low DOE M&O Inc	&O Incentive (cost-reimbursement)	No	Medium Medium	m \$83	13.9	6.0	7.0	(6.91)	-50%
UMTRA				\$36	4.7	7.7	3.0	(1.66)	-35%
Soil and Water Remediation – Moab 3 ER Low DOE M&O Inc	&O Incentive (cost-reimbursement)	No	Medium Medium	m \$36	4.7	7.7	3.0	(1.66)	-35%

# Productivity Factor At \$15.0M/FTE

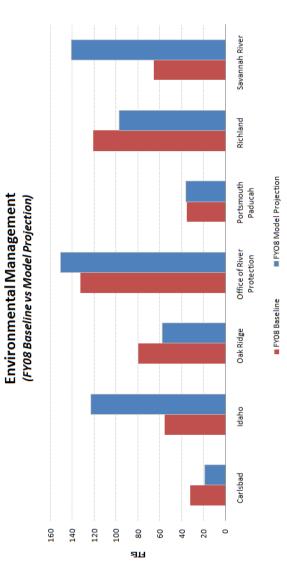


Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
Σ	\$5 <b>,</b> 329	602.9	8.8	580.4	(22.54)	-4%
Brookhaven	\$25	5.1	4.9	2.4	(2.70)	-53%
Carlsbad	\$160	32.0	5.0	15.7	(16.27)	-51%
Idaho	\$949	55.4	17.1	102.4	46.96	85%
Knolls Atomic Power Laboratory SPRU	\$13	7.0	1.9	1.4	(5.63)	-80%
Livermore	<b>\$</b> 9	1.2	7.2	0.9	(0.35)	-29%
Los Alamos	<b>\$</b> 381	26.4	14.4	37.6	11.21	42%
Nevada	\$100	21.1	4.8	9.9	(11.24)	-53%
Oak Ridge	\$435	80.0	5.4	48.0	(31.98)	-40%
Oakland	\$18	12.8	1.4	1.8	(11.04)	-86%
Office of River Protection	<b>\$</b> 958	132.6	7.2	125.6	(6.98)	-5%
Pantex	\$26	2.3	11.4	2.6	0.28	12%
Portsmouth/Paducah	<b>\$</b> 283	35.0	8.1	30.0	(4.95)	-14%
Richland	\$831	120.9	6.9	81.2	(39.73)	-33%
Sandia	<b>\$</b> 2	0.7	3.5	0.2	(0.46)	-65%
Savannah River	\$1,102	65.7	16.8	117.2	51.50	78%
UMTRA	\$36	4.7	7.7	3.5	(1.16)	-25%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5 <b>,</b> 329	602.9	8.8	580.4	(22.54)	-4%
Brookhaven									\$25	5.1	4.9	2.4	(2.70)	-53%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	e	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	2.4	(2.70)	-53%
Carlsbad									\$160	32.0	5.0	15.7	(16.27)	-51%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	oN	Medium	Medium	\$130	20.3	6.4	12.8	(7.52)	-37%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	oN	Medium	Medium	\$30	11.7	2.6	3.0	(8.75)	-75%
Idaho									<b>\$</b> 949	55.4	17.1	102.4	46.96	85%
Non – Nuclear Facility D&D – INL	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$0	4.1	0.0	0.0	(4.09)	-100%
Nuclear Facility D&D – INL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	6.5	2.31	55%
Nuclear Material Stabilization and Disposition	'n	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	6.5	0.3	0.2	(6.28)	-97%
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$182</b>	4.9	37.1	23.9	19.01	388%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	3.8	(0.04)	-1%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	35.0	26.88	332%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	12.4	0.25	2%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	20.5	8.92	77%
Knolls Atomic Power Laboratory SPRU									<b>\$1</b> 3	7.0	1.9	1.4	(5.63)	-80%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$1</b> 3	7.0	1.9	1.4	(5.63)	-80%
Livermore									\$9	1.2	7.2	0.9	(0.35)	-29%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	6\$	1.2	7.2	0.9	(0.35)	-29%
Los Alamos									\$381	26.4	14.4	37.6	11.21	42%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	3.4	0.25	8%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	19.9	(0.11)	-1%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	14.3	11.08	346%
Nevada									\$100	21.1	4.8	9.9	(11.24)	-53%
Operate Waste Disposal Facility – Nevada	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	2.0	(3.82)	-66%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	6.0	(5.19)	-46%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	1.9	(2.24)	-55%
Oak Ridge									\$435	80.0	5.4	48.0	(31.98)	-40%
Downblend of U-233 in Building 3019	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$4	8.0	5.5	4.9	(3.06)	-38%
Nuclear Facility D&D – East Tennessee Technology Park	e	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$228</b>	29.7	7.7	25.1	(4.58)	-15%
Nuclear Facility D&D – Oak Ridge National Laboratory	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	6.0	(7.33)	-55%
Nuclear Facility D&D Y-12	'n	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	2.3	(8.74)	-79%
Soil and Water Remediation – Melton Valley	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	0.8	(3.54)	-82%
Solid Waste Stabilization and Disposition – Oak Ridge	3	ER	High	DOE M&O	DOE M&O Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	9.0	(4.72)	-34%

Phase	Phase Type	HST	Execution	Contract Type	Uniqueness	Project negulatory Uniqueness Involvement	Influence	FY08 \$M	FTES	FY08 Fed FTEs)	Model Projection	FY08 Gap	Pct Diff
Oakland								\$18	12.8	1.4	1.8	(11.04)	-86%
Nuclear Facility D&D – Energy Technology Engineering Center 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	1.8	(11.04)	-86%
Office of River Protection								\$958	132.6	7.2	125.6	(6.98)	-5%
Radioactive Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm) 3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	28.8	(34.84)	-55%
WTP 3	Const	High	DOE Direct	Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	9.9	96.9	27.86	40%
Pantex								\$26	2.3	11.4	2.6	0.28	12%
Soil and Water Remediation – Pantex 3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$26	2.3	11.4	2.6	0.28	12%
Portsmouth/Paducah								<b>\$</b> 283	35.0	8.1	30.0	(4.95)	-14%
Depleted Uranium Hexafluoride 6 Conversion (DUF6) 2	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	6.8	(2.30)	-25%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$167	9.1	18.4	16.2	7.08	78%
Solid Waste Stabilization and Disposition – LPP – Portsmouth 3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$45	8.8	5.1	4.4	(4.41)	-50%
Solid Waste Stabilization and Disposition – Paducah	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$27	8.0	3.4	2.7	(5.32)	-67%
Richland								\$83 <b>1</b>	120.9	6.9	81.2	(39.73)	-33%
NM Stabilization and Disposition – PFP 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	9.5	(8.22)	-46%
Nuclear Facility D&D – Fast Flux Test Facility 3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	2.1	(6.95)	-76%
Nuclear Facility D&D – Remainder of Handford 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$99</b>	14.3	6.9	9.5	(4.75)	-33%
Nuclear Facility D&D – River Corridor Closure Project (RCCP) 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	20.8	(3.70)	-15%
SNF Stabilization and Disposition (K Basin Closure – KBC) 3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	9.8	(6.28)	-39%
Soil and Water Remediation – Groundwater/Vadose Zone 3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	7.1	(11.88)	-63%
Solid Waste Stabilization and Disposition – 200 Area 3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	22.3	2.06	10%
Sandia								\$2	0.7	3.5	0.2	(0.46)	-65%
Soil and Water Remediation – Sandia	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 2	0.7	3.5	0.2	(0.46)	-65%
Savannah River								\$1,102	65.7	16.8	117.2	51.50	78%
Balance of Nuclear Materials 3	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	10.7	8.45	384%
Enriched Uranium Disposition Project 3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$231</b>	3.2	72.3	24.3	21.08	659%
Nuclear Facility D&D – SRS 3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	0.6	(1.32)	-69%
Plutonium Disposition Project 1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$1	8.4	0.1	0.2	(8.23)	-98%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS 3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	51.4	46.23	889%
Salt Waste Processing Facility (SWPF) 2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	14.5	(14.53)	-50%
Soil and Water Remediation – SRS 3	Ж	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	7.5	5.56	292%
Solid Waste Stabilization and Disposition – SRS 3	Ж	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	8.2	(5.74)	-41%
UMTRA								\$36	4.7	7.7	3.5	(1.16)	-25%
Soil and Water Remediation – Moab	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	3.5	(1.16)	-25%

# Productivity Factor At \$12.5M/FTE

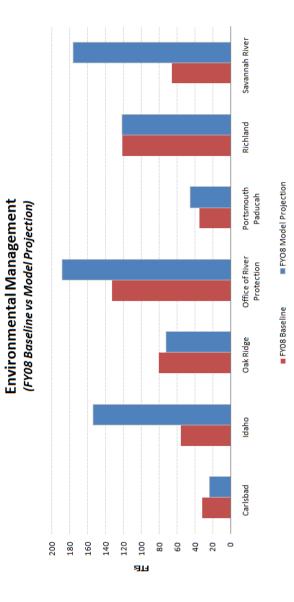


Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM	\$5 <b>,</b> 329	602.9	8.8	696.4	93.54	16%
Brookhaven	<b>\$</b> 25	5.1	4.9	2.9	(2.22)	-44%
Carlsbad	\$160	32.0	5.0	18.9	(13.12)	-41%
Idaho	\$949	55.4	17.1	122.8	67.43	122%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	1.6	(5.36)	-77%
Livermore	<del>\$</del> 9	1.2	7.2	1.0	(0.18)	-15%
Los Alamos	<b>\$</b> 381	26.4	14.4	45.1	18.73	71%
Nevada	\$100	21.1	4.8	11.8	(9.27)	-44%
Oak Ridge	\$435	80.0	5.4	57.6	(22.37)	-28%
Oakland	<b>\$18</b>	12.8	1.4	2.1	(10.69)	-84%
Office of River Protection	\$958	132.6	7.2	150.7	18.14	14%
Pantex	\$26	2.3	11.4	3.1	0.80	35%
Portsmouth/Paducah	<b>\$2</b> 83	35.0	8.1	36.1	1.06	3%
Richland	\$83 <b>1</b>	120.9	6.9	97.4	(23.49)	-19%
Sandia	\$2	0.7	3.5	0.3	(0.41)	-58%
Savannah River	\$ <b>1,1</b> 02	65.7	16.8	140.6	74.94	114%
UMTRA	<b>\$</b> 36	4.7	1.1	4.3	(0.45)	-10%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5,329	602.9	8.8	696.4	93.54	16%
Brookhaven									\$25	5.1	4.9	2.9	(2.22)	-44%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	m	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	2.9	(2.22)	-44%
Carlsbad									\$160	32.0	5.0	18.9	(13.12)	-41%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	15.3	(4.96)	-24%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	3.5	(8.16)	-70%
Idaho									<b>\$949</b>	55.4	17.1	122.8	67.43	122%
Non – Nuclear Facility D&D – INL	m	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	Ş	4.1	0.0	0.0	(4.09)	-100%
Nuclear Facility D&D – INL	°,	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	7.8	3.61	86%
Nuclear Material Stabilization and Disposition	m	æ	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	6.5	0.3	0.3	(6.24)	-96%
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	æ	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$182	4.9	37.1	28.7	23.79	486%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	4.5	0.71	19%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	42.0	33.88	418%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	14.9	2.74	22%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	24.6	13.02	112%
Knolls Atomic Power Laboratory SPRU									<b>\$1</b> 3	7.0	1.9	1.6	(5.36)	-17%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$1</b> 3	7.0	1.9	1.6	(5.36)	-77%
Livermore									<b>\$</b> 9	1.2	7.2	1.0	(0.18)	-15%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<del>\$</del> 9	1.2	7.2	1.0	(0.18)	-15%
Los Alamos									\$381	26.4	14.4	45.1	18.73	71%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	4.1	0.94	29%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	23.9	3.86	19%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	17.1	13.93	435%
Nevada									\$100	21.1	4.8	11.8	(9.27)	-44%
Operate Waste Disposal Facility – Nevada	m	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	2.4	(3.42)	-59%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	7.2	(3.98)	-36%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	2.2	(1.86)	-45%
Oak Ridge									\$435	80.0	5.4	57.6	(22.37)	-28%
Downblend of U–233 in Building 3019	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	8.0	5.5	5.9	(2.08)	-26%
Nuclear Facility D&D – East Tennessee Technology Park	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$228	29.7	7.7	30.1	0.45	2%
Nuclear Facility D&D – Oak Ridge National Laboratory	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	7.2	(6.14)	-46%
Nuclear Facility D&D Y–12	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	2.7	(8.28)	-75%
Soil and Water Remediation – Melton Valley	e	В	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	0.9	(3.39)	-79%
Solid Waste Stabilization and Disposition – Oak Ridge	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	10.8	(2.93)	-21%

Program / Site Office / Project Pl	Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs) F	FTEs - Model Projection	FY08 Gap	Pct Diff
Oakland									\$18	12.8	1.4	2.1	(10.69)	-84%
Nuclear Facility D&D – Energy Technology Engineering Center	3	D&D	Low E	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	2.1	(10.69)	-84%
Office of River Protection									<b>\$958</b>	132.6	7.2	150.7	18.14	14%
Radioactive Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm)	3	ER	Med D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	34.5	(29.09)	-46%
WTP	m	Const	High D	DOE Direct Ir	Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	<b>6</b> .6	116.2	47.23	68%
Pantex									\$26	2.3	11.4	3.1	0.80	35%
Soil and Water Remediation – Pantex	3	ER	Low E	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$26	2.3	11.4	3.1	0.80	35%
Portsmouth/Paducah									<b>\$28</b> 3	35.0	8.1	36.1	1.06	3%
Depleted Uranium Hexafluoride 6 Conversion (DUF6)	2	Const	Med D	DOE Direct Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	8.2	(0.94)	-10%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth	m	D&D	Low	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$167	9.1	18.4	19.4	10.32	113%
Solid Waste Stabilization and Disposition – LPP – Portsmouth	3	E	Low	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$45	8.8	5.1	5.3	(3.53)	-40%
Solid Waste Stabilization and Disposition – Paducah	3	ER	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$27	8.0	3.4	3.2	(4.79)	-60%
Richland									\$831	120.9	6.9	97.4	(23.49)	-19%
NM Stabilization and Disposition – PFP	3	D&D	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	11.4	(6.33)	-36%
Nuclear Facility D&D – Fast Flux Test Facility	3	D&D	Med D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	2.6	(6.52)	-72%
Nuclear Facility D&D – Remainder of Handford	3	D&D	Low E	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$99	14.3	6.9	11.5	(2.84)	-20%
Nuclear Facility D&D – River Corridor Closure Project (RCCP)	3	D&D	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	25.0	0.46	2%
SNF Stabilization and Disposition (K Basin Closure – KBC)	3	ER	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	11.8	(4.32)	-27%
Soil and Water Remediation – Groundwater/Vadose Zone	3	ER	Low E	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	8.5	(10.45)	-55%
Solid Waste Stabilization and Disposition – 200 Area	3	ER	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	26.7	6.51	32%
Sandia									\$2	0.7	3.5	0.3	(0.41)	-58%
Soil and Water Remediation – Sandia	3	ER	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	0.7	3.5	0.3	(0.41)	-58%
Savannah River									\$1,102	65.7	16.8	140.6	74.94	114%
Balance of Nuclear Materials	3	ER	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	12.8	10.58	481%
Enriched Uranium Disposition Project	3	ER	Med D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 231	3.2	72.3	29.1	25.93	810%
Nuclear Facility D&D – SRS	3	D&D	Low D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	0.7	(1.20)	-63%
Plutonium Disposition Project	-	Const	Med	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$1	8.4	0.1	0.2	(8.20)	-98%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS	3	ER	Med D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	61.7	56.52	1087%
Salt Waste Processing Facility (SWPF)	2	Const	Med D	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	17.4	(11.64)	-40%
Soil and Water Remediation – SRS	m	H	Low	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	8.9	7.05	371%
Solid Waste Stabilization and Disposition – SRS	m	H	Low	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	9.8	(4.11)	-30%
UMTRA									\$36	4.7	7.7	4.3	(0.45)	-10%
Soil and Water Remediation – Moab	ŝ	ER	Low	DOE M&O Ir	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	4.3	(0.45)	-10%

# Productivity Factor At \$10.0M/FTE

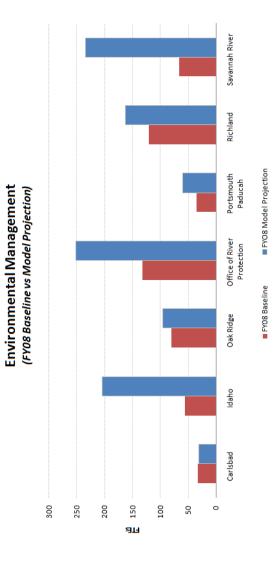


Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM	<b>\$5,329</b>	602.9	8.8	870.5	267.64	44%
Brookhaven	<b>\$</b> 25	5.1	4.9	3.6	(1.50)	-29%
Carlsbad	<b>\$160</b>	32.0	5.0	23.6	(8.40)	-26%
Idaho	<b>\$</b> 949	55.4	17.1	153.5	98.13	177%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	2.1	(4.95)	-71%
Livermore	<b>\$</b> 9	1.2	7.2	1.3	0.08	7%
Los Alamos	<b>\$</b> 381	26.4	14.4	56.4	30.01	114%
Nevada	<b>\$100</b>	21.1	4.8	14.8	(6.31)	-30%
Oak Ridge	<b>\$4</b> 35	80.0	5.4	72.0	(96.2)	-10%
Oakland	<b>\$18</b>	12.8	1.4	2.6	(10.17)	-79%
Office of River Protection	<b>\$</b> 958	132.6	7.2	188.4	55.83	42%
Pantex	<b>\$</b> 26	2.3	11.4	3.9	1.58	68%
Portsmouth/Paducah	<b>\$28</b> 3	35.0	8.1	45.1	10.07	29%
Richland	<b>\$</b> 831	120.9	6.9	121.8	0.86	1%
Sandia	<b>\$</b> 2	0.7	3.5	0.4	(0.33)	-48%
Savannah River	<b>\$1,102</b>	65.7	16.8	175.8	110.10	168%
UMTRA	<b>\$</b> 36	4.7	1.1	5.3	0.62	13%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5,329	602.9	8.8	870.5	267.64	44%
Brookhaven									\$25	5.1	4.9	3.6	(1.50)	-29%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	'n	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	3.6	(1.50)	-29%
Carlsbad									\$160	32.0	5.0	23.6	(8.40)	-26%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	19.2	(1.13)	-6%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	4.4	(7.28)	-62%
Idaho									<b>\$949</b>	55.4	17.1	153.5	98.13	177%
Non – Nuclear Facility D&D – INL	m	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	ŝ	4.1	0.0	0.0	(4.09)	-100%
Nuclear Facility D&D – INL	8	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	9.8	5.57	133%
Nuclear Material Stabilization and Disposition	m	æ	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	6.5	0.3	0.3	(6.18)	-95%
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	æ	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$182	4.9	37.1	35.9	30.97	632%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	5.6	1.84	48%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	52.5	44.38	548%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	18.7	6.47	53%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	30.8	19.18	165%
Knolls Atomic Power Laboratory SPRU									<b>\$1</b> 3	7.0	1.9	2.1	(4.95)	-71%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$ <b>1</b> 3	7.0	1.9	2.1	(4.95)	-71%
Livermore									<b>\$</b> 9	1.2	7.2	1.3	0.08	7%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<del>\$</del> \$	1.2	7.2	1.3	0.08	7%
Los Alamos									<b>\$381</b>	26.4	14.4	56.4	30.01	114%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	5.2	1.97	62%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	29.8	9.83	49%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	21.4	18.21	569%
Nevada									\$100	21.1	4.8	14.8	(6.31)	-30%
Operate Waste Disposal Facility – Nevada	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	3.0	(2.82)	-49%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	9.0	(2.18)	-19%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	2.8	(1.31)	-32%
Oak Ridge									\$435	80.0	5.4	72.0	(1.96)	-10%
Downblend of U-233 in Building 3019	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	8.0	5.5	7.4	(09.0)	-7%
Nuclear Facility D&D – East Tennessee Technology Park	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$228	29.7	7.7	37.7	7.98	27%
Nuclear Facility D&D – Oak Ridge National Laboratory	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	9.0	(4.35)	-33%
Nuclear Facility D&D Y–12	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	3.4	(2.60)	-69%
Soil and Water Remediation – Melton Valley	8	ER	High		Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	1.1	(3.17)	-74%
Solid Waste Stabilization and Disposition – Oak Ridge	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	13.5	(0.23)	-2%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
Oakland									\$18	12.8	1.4	2.6	(10.17)	%6/-
Nuclear Facility D&D – Energy Technology Engineering Center	3	D&D	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	2.6	(10.17)	-79%
Office of River Protection									<b>\$958</b>	132.6	7.2	188.4	55.83	42%
Radioactive Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm)	3	ER	Med I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	43.1	(20.46)	-32%
WTP	3	Const	High [	DOE Direct	Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	9.9	145.3	76.29	111%
Pantex									\$26	2.3	11.4	3.9	1.58	68%
Soil and Water Remediation – Pantex	3	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	٥N	Medium	Medium	\$26	2.3	11.4	3.9	1.58	68%
Portsmouth/Paducah									<b>\$</b> 283	35.0	8.1	45.1	10.07	29%
Depleted Uranium Hexafluoride 6 Conversion (DUF6)	2	Const	Med [	DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	10.2	1.10	12%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth	3	D&D	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$167	9.1	18.4	24.3	15.17	167%
Solid Waste Stabilization and Disposition – LPP – Portsmouth	e	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	٥N	Medium	Medium	\$45	8.8	5.1	6.6	(2.22)	-25%
Solid Waste Stabilization and Disposition – Paducah	3	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	٥N	Medium	Medium	\$27	8.0	3.4	4.0	(3.98)	-50%
Richland									\$83 <b>1</b>	120.9	6.9	121.8	0.86	1%
NM Stabilization and Disposition – PFP	3	D&D	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	14.2	(3.48)	-20%
Nuclear Facility D&D – Fast Flux Test Facility	3	D&D	Med I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	3.2	(5.88)	-65%
Nuclear Facility D&D – Remainder of Handford	e	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	66\$	14.3	6.9	14.3	0.02	%0
Nuclear Facility D&D – River Corridor Closure Project (RCCP)	3	D&D	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	31.2	6.70	27%
SNF Stabilization and Disposition (K Basin Closure – KBC)	3	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	14.7	(1.38)	-9%
Soil and Water Remediation – Groundwater/Vadose Zone	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	10.7	(8.31)	-44%
Solid Waste Stabilization and Disposition – 200 Area	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	33.4	13.18	65%
Sandia									\$2	0.7	3.5	0.4	(0.33)	-48%
Soil and Water Remediation – Sandia	3	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	0.7	3.5	0.4	(0.33)	-48%
Savannah River									\$1,102	65.7	16.8	175.8	110.10	168%
Balance of Nuclear Materials	3	ER	Low I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	16.0	13.78	626%
Enriched Uranium Disposition Project	3	ER	Med I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 231	3.2	72.3	36.4	33.22	1038%
Nuclear Facility D&D – SRS	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	0.9	(1.03)	-54%
Plutonium Disposition Project	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$1</b>	8.4	0.1	0.3	(8.15)	-97%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS	3	ER	Med I	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	77.1	71.95	1384%
Salt Waste Processing Facility (SWPF)	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	21.7	(7.29)	-25%
Soil and Water Remediation – SRS	m	۳	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	11.2	9.28	489%
Solid Waste Stabilization and Disposition – SRS	m	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	12.2	(1.66)	-12%
UMTRA									\$36	4.7	7.7	5.3	0.62	13%
Soil and Water Remediation – Moab	e	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	5.3	0.62	13%

### Productivity Factor At \$7.5M/FTE

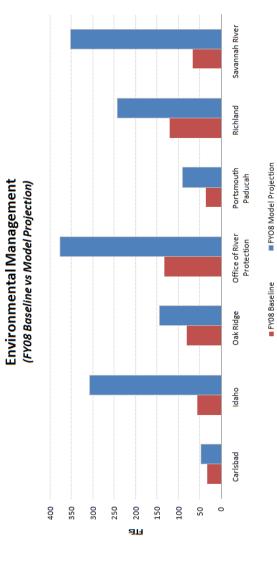


Program / Site Office / Project	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM	<b>\$5,329</b>	602.9	8.8	1,160.7	557.83	93%
Brookhaven	<b>\$</b> 25	5.1	4.9	4.8	(0:30)	-6%
Carlsbad	<b>\$160</b>	32.0	5.0	31.5	(0.53)	-2%
Idaho	<b>\$</b> 949	55.4	17.1	204.7	149.31	270%
Knolls Atomic Power Laboratory SPRU	<b>\$1</b> 3	7.0	1.9	2.7	(4.26)	-61%
Livermore	<b>\$</b> 9	1.2	7.2	1.7	0.51	42%
Los Alamos	<b>\$</b> 381	26.4	14.4	75.2	48.81	185%
Nevada	<b>\$100</b>	21.1	4.8	19.7	(1.38)	-7%
Oak Ridge	<b>\$4</b> 35	80.0	5.4	96.0	16.05	20%
Oakland	<b>\$18</b>	12.8	1.4	3.5	(9.29)	-73%
Office of River Protection	<b>\$958</b>	132.6	7.2	251.2	118.64	89%
Pantex	\$26	2.3	11.4	5.2	2.87	125%
Portsmouth/Paducah	<mark>\$</mark> 283	35.0	8.1	60.1	25.10	72%
Richland	<b>\$</b> 831	120.9	6.9	162.3	41.44	34%
Sandia	\$2	0.7	3.5	0.5	(0.21)	-30%
Savannah River	<b>\$1,102</b>	65.7	16.8	234.4	168.69	257%
UMTRA	<b>\$</b> 36	4.7	1.1	7.1	2.39	51%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5,329	602.9	8.8	1,160.7	557.83	93%
Brookhaven									\$25	5.1	4.9	4.8	(0:30)	-6%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	'n	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	4.8	(0:30)	-6%
Carlsbad									\$160	32.0	5.0	31.5	(0.53)	-2%
Operate Waste Disposal Facility	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	25.6	5.27	26%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	5.9	(5.80)	-50%
Idaho									<b>\$949</b>	55.4	17.1	204.7	149.31	270%
Non – Nuclear Facility D&D – INL	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$0	4.1	0.0	0.0	(4.08)	-100%
Nuclear Facility D&D – INL	e	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	13.0	8.82	210%
Nuclear Material Stabilization and Disposition	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 2	6.5	0.3	0.4	(6.07)	-93%
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	ER	Low	DOE M&O	Incentive (cost-reimbursement)	oN	Medium	Medium	\$182	4.9	37.1	47.8	42.92	876%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	7.5	3.72	98%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	70.0	61.87	764%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	24.9	12.70	104%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	41.0	29.43	254%
Knolls Atomic Power Laboratory SPRU									<b>\$1</b> 3	7.0	1.9	2.7	(4.26)	-61%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$1</b> 3	7.0	1.9	2.7	(4.26)	-61%
Livermore									<b>\$</b> 9	1.2	7.2	1.7	0.51	42%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$ <del>3</del>	1.2	7.2	1.7	0.51	42%
Los Alamos									\$381	26.4	14.4	75.2	48.81	185%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	6.9	3.69	115%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	39.8	19.77	66%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	28.6	25.35	792%
Nevada									\$100	21.1	4.8	19.7	(1.38)	-7%
Operate Waste Disposal Facility – Nevada	8	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	4.0	(1.83)	-32%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	12.0	0.83	7%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	3.7	(0.37)	-9%
Oak Ridge									\$435	80.0	5.4	96.0	16.05	20%
Downblend of U-233 in Building 3019	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	8.0	5.5	9.9	1.87	23%
Nuclear Facility D&D – East Tennessee Technology Park	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$228</b>	29.7	7.7	50.2	20.54	%69
Nuclear Facility D&D – Oak Ridge National Laboratory	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	11.9	(1.36)	-10%
Nuclear Facility D&D Y-12	'n	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	4.5	(6.47)	-59%
Soil and Water Remediation – Melton Valley	8	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	1.5	(2.79)	-65%
Solid Waste Stabilization and Disposition – Oak Ridge	8	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	18.0	4.26	31%

Program / Site Office / Project	Project   Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed P	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
Oakland									\$18	12.8	1.4	3.5	(6.29)	-73%
Nuclear Facility D&D – Energy Technology Engineering Center	3	D&D	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	3.5	(9.29)	-73%
Office of River Protection									\$958	132.6	7.2	251.2	118.64	89%
Radioactive Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm)	3	ER	Med	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	57.5	(6.08)	-10%
WTP	m	Const	High	DOE Direct It	Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	<del>9</del> .9	193.7	124.72	181%
Pantex									\$26	2.3	11.4	5.2	2.87	125%
Soil and Water Remediation – Pantex	3	ER	Low [	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$26	2.3	11.4	5.2	2.87	125%
Portsmouth/Paducah									<b>\$</b> 283	35.0	8.1	60.1	25.10	72%
Depleted Uranium Hexafluoride 6 Conversion (DUF6)	2	Const	Med D	DOE Direct It	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	13.6	4.50	49%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth	3	D&D	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$167	9.1	18.4	32.4	23.26	256%
Solid Waste Stabilization and Disposition – LPP – Portsmouth	3	ER	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$ <del>1</del> 5	8.8	5.1	8.8	(0.02)	%0
Solid Waste Stabilization and Disposition – Paducah	3	ER	Low [	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$27	8.0	3.4	5.4	(2.64)	-33%
Richland									\$831	120.9	6.9	162.3	41.44	34%
NM Stabilization and Disposition – PFP	3	D&D	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	19.0	1.25	7%
Nuclear Facility D&D – Fast Flux Test Facility	3	D&D	Med	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	4.3	(4.80)	-53%
Nuclear Facility D&D – Remainder of Handford	e	D&D	Low	DOE M&O II	Incentive (cost-reimbursement)	٥N	Medium	Medium	66\$	14.3	6.9	19.1	4.79	34%
Nuclear Facility D&D – River Corridor Closure Project (RCCP)	3	D&D	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	41.6	17.11	70%
SNF Stabilization and Disposition (K Basin Closure – KBC)	3	ER	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	19.6	3.53	22%
Soil and Water Remediation – Groundwater/Vadose Zone	3	ER	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	14.2	(4.75)	-25%
Solid Waste Stabilization and Disposition – 200 Area	3	ER	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	44.5	24.31	120%
Sandia									\$2	0.7	3.5	0.5	(0.21)	-30%
Soil and Water Remediation – Sandia	3	ER	Low	DOE M&O It	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	0.7	3.5	0.5	(0.21)	-30%
Savannah River									\$1,102	65.7	16.8	234.4	168.69	257%
Balance of Nuclear Materials	m	Ш	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	21.3	19.10	868%
Enriched Uranium Disposition Project	3	ER	Med	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$231	3.2	72.3	48.6	45.35	1417%
Nuclear Facility D&D – SRS	3	D&D	Low [	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	1.2	(0.73)	-39%
Plutonium Disposition Project	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$1	8.4	0.1	0.3	(8.06)	-96%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS	e	ER	Med	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	102.9	97.66	1878%
Salt Waste Processing Facility (SWPF)	2	Const	Med	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	28.9	(0.06)	0%
Soil and Water Remediation – SRS	m	Я	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	14.9	13.01	685%
Solid Waste Stabilization and Disposition – SRS	m	щ	Low	DOE M&O II	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	16.3	2.42	17%
UMTRA									\$36	4.7	7.7	7.1	2.39	51%
Soil and Water Remediation – Moab	e	ER	Low	OE M&O	DOE M&O Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	7.1	2.39	51%

### Productivity Factor At \$5.0M/FTE



Program / Site Office / Project	FY08 \$M	FY08 \$M FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM	\$5,329	602.9	8.8	1,741.1	1,138.19	189%
Brookhaven	<b>\$</b> 25	5.1	4.9	7.2	2.10	41%
Carlsbad	<b>\$160</b>	32.0	5.0	47.2	15.20	48%
Idaho	<b>\$</b> 949	55.4	17.1	307.1	251.67	454%
<b>Knolls Atomic Power Laboratory SPRU</b>	<b>\$1</b> 3	7.0	1.9	4.1	(2.89)	-41%
Livermore	<b>\$</b> 9	1.2	7.2	2.6	1.36	113%
Los Alamos	<b>\$</b> 381	26.4	14.4	112.8	86.42	327%
Nevada	<b>\$100</b>	21.1	4.8	29.6	8.48	40%
Oak Ridge	<b>\$4</b> 35	80.0	5.4	144.1	64.07	80%
Oakland	<b>\$18</b>	12.8	1.4	5.3	(7.53)	-59%
Office of River Protection	<b>\$</b> 958	132.6	7.2	376.9	244.26	184%
Pantex	<b>\$</b> 26	2.3	11.4	7.8	5.45	237%
Portsmouth/Paducah	<b>\$2</b> 83	35.0	8.1	90.1	55.15	158%
Richland	<b>\$</b> 831	120.9	6.9	243.5	122.61	101%
Sandia	<b>\$</b> 2	0.7	3.5	0.7	0.03	5%
Savannah River	<b>\$1,1</b> 02	65.7	16.8	351.6	285.89	435%
UMTRA	<b>\$</b> 36	4.7	1.1	10.6	5.93	126%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Regulatory External Uniqueness Involvement Influence	Regulatory nvolvement	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$ / FY08 Fed FTEs)	FTEs - Model Projection	FY08 Gap	Pct Diff
EM									\$5,329	602.9	8.8	1,741.1	1,138.19	189%
Brookhaven									\$25	5.1	4.9	7.2	2.10	41%
Nuclear Facility D&D – Brookhaven Graphite Research Reactor	m	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$25	5.1	4.9	7.2	2.10	41%
Carlsbad									\$160	32.0	5.0	47.2	15.20	48%
Operate Waste Disposal Facility	e	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$130	20.3	6.4	38.4	18.05	89%
Transportation – WIPP	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$30	11.7	2.6	8.9	(2.85)	-24%
Idaho									<b>\$949</b>	55.4	17.1	307.1	251.67	454%
Non – Nuclear Facility D&D – INL	m	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	ŝ	4.1	0.0	0.0	(4.07)	%66-
Nuclear Facility D&D – INL	8	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$63	4.2	15.0	19.5	15.33	365%
Nuclear Material Stabilization and Disposition	m	æ	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$2	6.5	0.3	0.6	(5.85)	%06-
Radioactive Liquid Tank Waste Stabilization and Disposition 2012	2	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$182	4.9	37.1	71.7	66.83	1364%
SNF Stabilization and Disposition 2012	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$36	3.8	9.4	11.3	7.48	197%
Sodium Bearing Waste Treatment (SBWT)	3	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$344	8.1	42.5	105.0	96.85	1196%
Soil and Water Remediation 2012	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$127	12.2	10.4	37.3	25.15	206%
Solid Waste Stabilization and Disposition (Incl Advanced Mixed Waste Treatment Proj)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$195	11.6	16.8	61.6	49.95	431%
Knolls Atomic Power Laboratory SPRU									\$13	7.0	1.9	4.1	(2.89)	-41%
Nuclear Facility D&D – Separations Process Research Unit (SPRU)	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$13	7.0	1.9	4.1	(2.89)	-41%
Livermore									<b>\$</b> 9	1.2	7.2	2.6	1.36	113%
Soil and Water Remediation – LLNL, Site 300	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$ <del>3</del>	1.2	7.2	2.6	1.36	113%
Los Alamos									\$381	26.4	14.4	112.8	86.42	327%
Nuclear Facility D&D – Defense, LANL	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$33	3.2	10.4	10.3	7.14	223%
Soil and Water Remediation – LANL	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$202	20.0	10.1	59.7	39.66	198%
Solid Waste Stabilization and Disposition – LANL Legacy	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$145	3.2	45.4	42.8	39.63	1238%
Nevada									\$100	21.1	4.8	29.6	8.48	40%
Operate Waste Disposal Facility – Nevada	8	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$20	5.8	3.5	6.0	0.15	3%
Soil and Water Remediation – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$61	11.2	5.5	18.0	6.84	61%
Solid Waste Stabilization and Disposition – NTS	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$19	4.1	4.6	5.6	1.49	36%
Oak Ridge									\$435	80.0	5.4	144.1	64.07	80%
Downblend of U-233 in Building 3019	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	8.0	5.5	14.8	6.81	85%
Nuclear Facility D&D – East Tennessee Technology Park	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$228	29.7	7.7	75.4	45.67	154%
Nuclear Facility D&D – Oak Ridge National Laboratory	3	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$54	13.3	4.1	17.9	4.60	35%
Nuclear Facility D&D Y-12	m	D&D	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	11.0	1.9	6.8	(4.21)	-38%
Soil and Water Remediation – Melton Valley	3	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$7	4.3	1.6	2.3	(2.03)	-47%
Solid Waste Stabilization and Disposition – Oak Ridge	e	ER	High	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$80	13.7	5.9	26.9	13.24	97%

Program / Site Office / Project	Project Phase	Project Type	HST	Project Execution	Contract Type	Project Uniqueness	Project Regulatory External Uniqueness Involvement Influence	External Influence	FY08 \$M	FY08 Fed FTEs	PF (FY08\$/ FY08 Fed FTEs) 1	FTEs - Model Projection	FY08 Gap	Pct Diff
Oakland									\$18	12.8	1.4	5.3	(7.53)	-59%
Nuclear Facility D&D – Energy Technology Engineering Center	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$18	12.8	1.4	5.3	(7.53)	-59%
Office of River Protection									\$958	132.6	7.2	376.9	244.26	184%
Radioactive Liquid Tank Waste Stabilization and Disposition – ORP (Tank Farm)	3	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$274	63.6	4.3	86.3	22.67	36%
WTP	3	Const	High	DOE Direct	Incentive (cost-reimbursement)	Yes	High	High	\$684	69.0	9.9	290.6	221.58	321%
Pantex									\$26	2.3	11.4	7.8	5.45	237%
Soil and Water Remediation – Pantex	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$26	2.3	11.4	7.8	5.45	237%
Portsmouth/Paducah									\$283	35.0	8.1	90.1	55.15	158%
Depleted Uranium Hexafluoride 6 Conversion (DUF6)	2	Const	Med	DOE Direct	Incentive (cost-reimbursement)	No	Medium	Medium	\$44	9.1	4.8	20.4	11.30	124%
Nuclear Facility D&D of Gaseous Diffusion Plant – Portsmouth	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$167	9.1	18.4	48.5	39.44	433%
Solid Waste Stabilization and Disposition – LPP – Portsmouth	3	B	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$45	8.8	5.1	13.2	4.37	50%
Solid Waste Stabilization and Disposition – Paducah	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$27	8.0	3.4	8.0	0.03	%0
Richland									\$831	120.9	6.9	243.5	122.61	101%
NM Stabilization and Disposition – PFP	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$98	17.7	5.5	28.4	10.73	61%
Nuclear Facility D&D – Fast Flux Test Facility	3	D&D	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$21	9.1	2.3	6.4	(2.65)	-29%
Nuclear Facility D&D – Remainder of Handford	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$99	14.3	6.9	28.6	14.34	100%
Nuclear Facility D&D – River Corridor Closure Project (RCCP)	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$215	24.5	8.8	62.4	37.91	155%
SNF Stabilization and Disposition (K Basin Closure – KBC)	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$100	16.1	6.2	29.4	13.35	83%
Soil and Water Remediation – Groundwater/Vadose Zone	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$72	19.0	3.8	21.4	2.37	12%
Solid Waste Stabilization and Disposition – 200 Area	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$226	20.2	11.2	66.8	46.57	231%
Sandia									\$2	0.7	3.5	0.7	0.03	5%
Soil and Water Remediation – Sandia	3	ER	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$</b> 2	0.7	3.5	0.7	0.03	5%
Savannah River									\$1,102	65.7	16.8	351.6	285.89	435%
Balance of Nuclear Materials	m	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$108	2.2	49.2	32.0	29.75	1352%
Enriched Uranium Disposition Project	m	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	<b>\$231</b>	3.2	72.3	72.8	69.63	2176%
Nuclear Facility D&D – SRS	3	D&D	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$6	1.9	3.2	1.7	(0.15)	-8%
Plutonium Disposition Project	1	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$1	8.4	0.1	0.5	(06.2)	-94%
Radioactive Liquid Tank Waste Stabilization and Disposition - SRS	e	ER	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$490	5.2	94.2	154.3	149.09	2867%
Salt Waste Processing Facility (SWPF)	2	Const	Med	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$107	29.0	3.7	43.4	14.41	50%
Soil and Water Remediation – SRS	m	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$76	1.9	39.9	22.4	20.47	1077%
Solid Waste Stabilization and Disposition – SRS	m	H	Low	DOE M&O	Incentive (cost-reimbursement)	No	Medium	Medium	\$83	13.9	6.0	24.5	10.58	76%
UMTRA									\$36	4.7	7.7	10.6	5.93	126%
Soil and Water Remediation – Moab	e	ER	Low	DOE M&O	DOE M&O Incentive (cost-reimbursement)	No	Medium	Medium	\$36	4.7	7.7	10.6	5.93	126%