

FMOC Projects

■ Building 894 Sustainment Study

Project Scope: The FMOC is studying renovation strategies to support mission-critical work within Building 894 for the next 10 to 12 years. The goals: summarize deficiencies, gain space-use efficiency, and give options for phasing and costs. The study engaged Power Sources and Metrology (2450) in two Lean Six Sigma events to clarify and prioritize needs. Building 894 has numerous building systems deficiencies that adversely affect the mission-critical work taking place there and will limit future capabilities. The restoration project will include structural bracing, improved storage, properly configured labs with appropriately engineered controls, increased mission-critical capabilities, and improved HVAC systems and temperature controls. The study is complete and has identified four phases; the first to remove battery storage and long-term testing, and the other three for renovation of the building. The A/E firm has begun a scoping study to define the requirements of the first phase, a new offsite storage/long-term testing building.

Project Design/Construction Start: FY13

Estimated Completion: FY16

Funding: \$8-12M

Project Manager: Carol Bicher

Strategic Planner: Malia Orell

■ Building 892 Remove from Service

Partnership and Planning (4853) has initiated a study to determine how best to vacate Building 892 and remove it from service. An A/E firm has been hired to help assess occupants' short- to midterm needs and will be working with FMOC to translate those needs into a move plan, taking into consideration colocation and key mission capabilities. The study is currently slated to be complete by September 2012, but immediate move opportunities will be taken as they become apparent. Building 892 will be completely vacated when the third IGPP is occupied, scheduled for FY15.

Project Execution Start: FY13

Estimated Completion: FY15

Funding: TBD

Project Manager: Carol Bicher

Strategic Planner: Malia Orell



■ F M O C

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■ Building 804 Renovation and Mezzanine Removal

Project Scope: The south portion of Building 804 has been redesigned and will be reconstructed for use as generic reconfigurable open office space. The project will include the relocation of CSU Operations (9343). The organization's new space will be modified to make it fit for use.

Demolition will include removing the existing mezzanine and associated infrastructure, and the walls dividing room 151. Modifications will include structural, seismic, fire protection, and telecommunication upgrades. Code compliance issues will be managed and the restrooms will be renovated to include low-flow fixtures. HVAC upgrades will include a built-up air handler with an evaporative cooling section and variable air volume boxes controlled by the Facilities Controls System (FCS). The project will include a lighting control system with the ability to control HVAC and lighting and communicate with the FCS. All energy streams and water will be metered independently to the building. Electrical upgrades will also include occupancy sensors and replacing fixtures with energy-efficient ones.

Status and Issues: Project Authorization was received in April 2012. The demolition phase will be executed through the use of a Time and Materials contract and began in May 2012. The programming for the renovation of the space began in April 2012. While demolition work is being executed, the design of the space will take place through our partnership contract with Garrett Smith Ltd. with the intent of preordering some equipment this fiscal year.

Project Start: April 2012

Scheduled Completion: December 2013

Funding: \$1.5M TPC

Project Manager: Rico Ortiz

For more information on these projects, please call one of the following FMOC Managers:

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FMOC Projects

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This flyer describes selected construction, maintenance, and infrastructure projects in progress by the Facilities Management and Operations Center (FMOC) at Sandia National Laboratories (SNL) sites in New Mexico. The descriptions give the following information about each project: scope, current status, issues (if any), project construction start dates and scheduled completion dates, funding information, and the name of the FMOC Project Manager.

Strategic Planning Overview of Current Projects

The Nuclear Weapons Life Extension Program (NW-LEP) is projecting growth in revenue and people over the next few years. This demand for modern, technical space is presenting a challenge for the infrastructure. Numerous facilities at SNL require concentrated maintenance attention. To provide infrastructure capability to support the mission work in a responsive timeframe, opportunities to reutilize existing space are being identified. For these buildings to continue as viable assets, significant investments will be required within 10 years.

In the long term, Sandia has proposed the Weapons Engineering Facility (WEF) line item. The most recent Stockpile Stewardship Management Plan from Headquarters has acknowledged WEF as an FY17 investment. This proposed facility will support NW-LEP system engineering and design, and development of weapon life extensions and weapons needed for a sustainable future deterrent. In the short term, refurbishment of aging infrastructure, utility systems, fire-protection systems, and telecommunications systems is necessary along with construction of new turnaround space to meet the stringent security and data-transfer demands of the mission as a stopgap in the lengthy timeline of the larger project. (Continued on next page.)

PLANNING HORIZONS

894	894 RENOVATIONS	894 RENOVATIONS	894 OCCUPANCY	894 VACATED AND D&D
892			892 VACATED	892 D&D
905			905 ADDITION	
840	840 RENOVATION			
804	804 RENOVATION			
EA	704 COMPLETION			
IGPP2	705 COMPLETION			
IGPP3		706 COMPLETION		
WEF	WEF PLANNING	WEF DEVELOPMENT	WEF COMPLETION	
	1-2 YEARS	3-5 YEARS	5-10 YEARS	OUT YEARS

(Continued from cover page.)

The FMOC has developed a *Five-Year Facilities and Infrastructure (F&I) Plan* through a series of dialogues with Sandia leadership, and the Mission Leadership Team (MLT) approved the baseline plan on February 27, 2012. The FMOC will strive to achieve the five targets identified by the plan. These targets align with Sandia's Strategic Objectives:

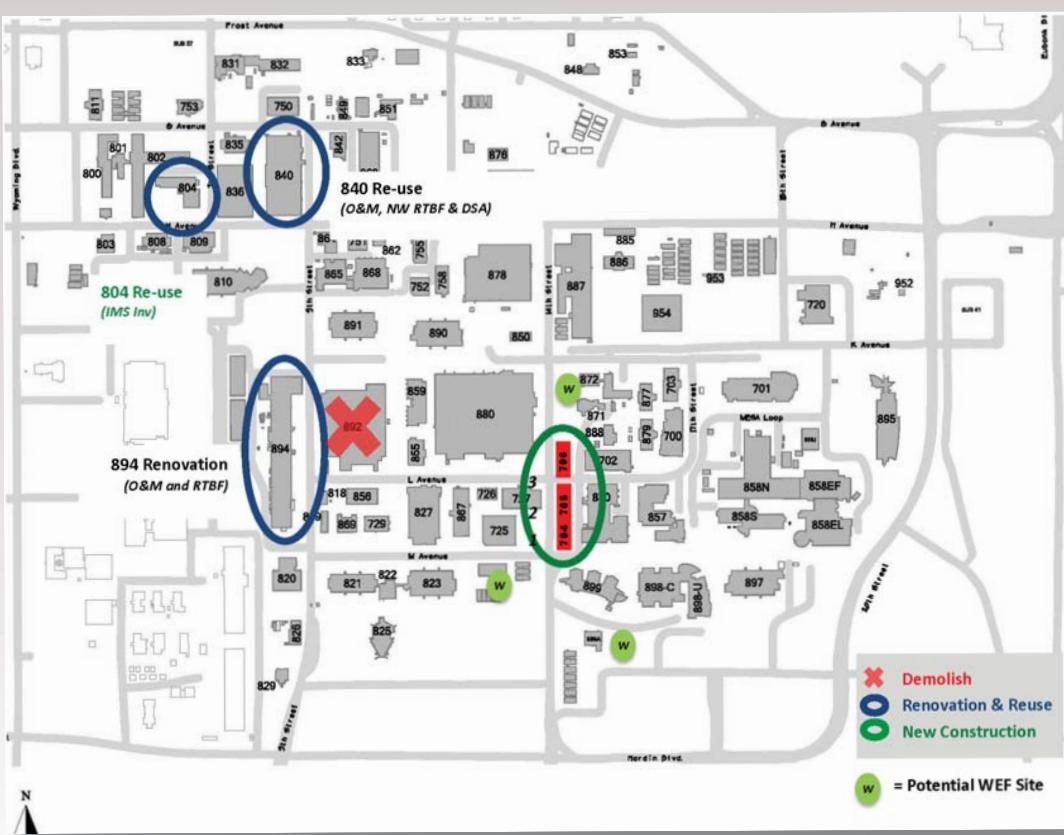
1. Remove substandard space from service.
2. Improve productivity of mission through colocation and improvements in space quality.
3. Improve F&I condition.
4. Increase space utilization (e.g., office, lab and storage).
5. Accelerate major facility construction and building improvement.

One of the key elements of this plan is to remove Building 892 from service and prepare it for disposition in the five-year horizon. *The Five-Year F&I Plan* also funds construction of three new Institutional General Plant Project (IGPP) office/lab buildings in New Mexico's Tech Area I (TA-I) during that period.

These IGPPs will help directly and indirectly with the relocation of some of the operations in Building 892, but will also address anticipated growth in the NW-LEPs. Recapitalization projects are also part of this solution, including renovations in buildings 894, 840, and 804.

Current highlighted projects:

- Building 704, Construction of Engineering Annex
- Building 840, Refurbishment and Occupancy
- Building 894, Sustainment Study
- Building 892, Remove from Service
- Building 804, Renovation and Mezzanine Removal



■ Building 704 Construction of Engineering Annex

Project Scope: The scope of this project is to design a new IGPP building (Building 704) on the vacant site where Building 884 was demolished. The siting for this new building is important because nearby buildings in the southwest quadrant of TA-I house many varied organizations that support the SNL National Security Mission. The new building will be designed to meet LEED® certification at the Gold level. The IGPP building is proposed to meet the space required for the midterm demands (three to five years) of SNL.

This facility will benefit the ongoing activity in the Science and Technology (S&T) corridor to include S&T initiatives, major program initiatives, and thus multiple mission elements of the Laboratories. Colocating the Engineering Design and Science activities will allow work on major programs as they ebb and flow, allowing the space to continually "turn over" to meet the multimission needs of the area. The facility will be configured as a "workplace of the future" with office and collaboration space. Colocation of 30 to 70 multidiscipline staff will be possible in order to work collaboratively on national security issues. The building design will allow whole floors to be easily reconfigured to meet changing needs of the Sandia mission. Additionally, this will allow Sandia to accelerate the changes in Building 892 to completely vacate that building and remove it from service by 2015. It is anticipated that approximately 50 of the current 310 staff housed in Building 892 will be placed in the new building. Staff in Building 892 support the mission support and mission delivery aspects of the laboratory.

Status and Issues: Design-Build contract was awarded in mid-June to B&D General Contractors. The design has begun and construction began June 28, 2012. The new building will have two small electrical labs and an occupancy of approximately 125 people.

Project Start: June 2012

Scheduled Completion: September 2013

Funding: \$9.7M TPC

Project Manager: M. Anthony Chavez



Rendering of Building 704 by Garrett Smith Ltd.

■ Building 840 Refurbishment and Occupancy

Project Scope: The FMOC is refurbishing Building 840 for new occupancy (first floor only). Building 840 was originally a machine shop and has high-bay space and substantial (more than 70,000 square feet) space for current space needs. The FMOC is modifying Building 840 to achieve compliance with current building codes and prepare for reoccupancy. Current construction includes a major effort to bring the building up to seismic code and modify the exterior to improve thermal performance (replace the windows, restore door weather strips, paint exterior doors, and clean/regROUT exterior brick). To accomplish this work extensive asbestos and lead paint abatement was required. Planned work includes replacement of the heating, cooling, and ventilation (HVAC) system; rebuilding the electrical, communications, and fire alarm systems; rebuilding the fire protection systems; addressing the chilled water system; and reroofing. Occupancy is planned starting in calendar year 2013. Total space available for occupancy is 70,700 square feet.

Project Construction Start: January 2011

Estimated Completion: First Occupancy - January 2013, completion as funds are made available

Funding: \$6,016,500

Project Manager: Jim Smith and Rico Ortiz