-----Original Message-----
From: John Isaacson [mailto:isaacson@lanl.gov]
Sent: Thursday, May 12, 2005 6:44 PM
To: KIRK.W.OWENS@saic.com
Cc: isaacson@lanl.gov
Subject: TA 55 Re-Investment data call

Kirk here is the response to your data call for TA-55 Re-Investment.
Look it over and let me know what else you need.
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Plutonium Complex Facility (TA-55) Reinvestment Project Data Request

Data Requirement	*Attachment #*	*Data and/or Notes*
1. DESCRIPTION OF PROJECT		**NOTE: PROJECT IS AT PRECONCEPTUAL STAGE – ONLY ROUGH DATA AND CONCEPT HAS BEEN DEVELOPED. INFORMATION IS NOT FINAL AND SUBJECT TO CHANGE.** **[NOTE: identify by subproject as appropriate]**
1.1 Attach copy of any environmental checklist or Project Report IDs for the TA-55 PROJECT		Not developed yet – project will develop as part of CD-1 package.
1.2 **Schedule (confirm or correct years assumed)**		
Design		FY 06 – FY13
Construction		FY 08 – FY 14
Operation		This work will renovate a number of systems in an operating facility, TA-55. The facility will continue to operate as long as DOE/NNSA desire it to.
2. CONSTRUCTION/MODIFICATION ACTIVITIES		**Analysis will be based on CD-0 package and subproject descriptions.**
2.1 Location and total area of land disturbance during construction of Emergency Response Building		Final siting to be determined. Initial / pre-conceptual proposal was to locate southeast of PF-1.
• Is land disturbance on previously disturbed land? (Include percentage on undisturbed land)		TA-55 is a well developed site. The bldg will be located somewhere within that site, most likely near the eastern guard gate. Pavement, sidewalk, utilities, landscaping will be disturbed – appx. 5000-10,000 sf.
• Land area occupied when completed		Bldg size is appx. 3200-sf, single story.
*Confirm our assumption that **no other subprojects involve land disturbance outside of existing buildings**.*		No other subprojects are expected to disturb land. Subprojects are focused on repairing / replacing electrical, controls, and mechanical systems.

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2.2 Does the proposed areas of disturbance include any of the following? • PRS or SWMUs • Traditional cultural properties • Sensitive biological resources		None of the subprojects are expected to encounter those items.
Emissions during construction/modification		Specify units
2.3 Nonradioactive air emissions. List by criteria pollutant and toxic chemicals; in lieu of the above, provide a description of building type, material of construction, and expected heavy equipment usage (hours of grader, crane, cement truck, etc)		Nothing significant – most work will be conducted inside the plant using hand tools.
Waste generated during construction/modification– indicate disposal pathway		Specify units. Also, indicate which of the subprojects represent the bulk of each waste category.
2.4 Low-level radioactive waste (designate solids and liquids)		Unknown, but estimated to be less than 100 cubic meters. Most should be used PPE.
2.5 Mixed low-level radioactive waste (designate solids and liquids)		Unknown at this time. Expected to be minimal based on pre-conceptual scope of work. Possibility that some small amounts (less than 10 cubic meters) could be generated.
2.6 Hazardous (designate solids and liquids)		Too early to estimate. Maybe some asbestos, some plastics, and other electronic components generated as result of replacing controls and HVAC systems (wire, batteries, insulation, etc.)
2.7 Nonhazardous solids • Concrete • Steel • Other • % expected to be recycled		Too early to estimate. Minimal though.
2.8 Nonhazardous liquids (sanitary and other)		Sanitary waste for 25 personnel working on project.
2.9 Other waste		N/A
Material/Resource Requirements During Construction/Modification		Specify units
2.10 Water usage, indicate major uses of water for construction, by subproject		Water supplied by existing utilities within existing facility capacities.
2.11 Electricity (average use per day (KWhr), peak use (KW), total use (MWhr), include source and system capacities		Power supplied by existing utilities within existing facility capacities.

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• Is local substation or transformer complex required to support facility construction? If yes, does it need to be constructed?		Existing utilities will be more than ample to support project. No additional utilities will be required.
2.12 Gasoline		Minimal
2.13 Diesel fuel		Minimal
2.14 Concrete		For foundation for Emergency Communications Building. Estimate less than 100 cy.
• Is concrete batch plant to be constructed onsite to assist in facility construction?		No – from local supplier.
2.15 Steel		Unknown – enough for 3200 sf lightly framed building; incidental bracing for ductwork and gloveboxes.
2.16 Crushed stone		~100 cy
2.17 Asphalt		None
2.18 **Labor (FTEs) –** peak construction workers, total, and time frame		Estimate appx. 25 crafts full time (1800 hrs/yr) for 5-6 years.
Doses to involved workers during construction/modification		
2.xx Provide an estimate of the dose to construction workers (by subproject)		Less than 500 milli-Rem for any subproject.
3. DECONTAMINATION, DECOMMISSIONING AND DEMOLITION OF EXISTING FACILITIES		*Please confirm our assumption that **no facilities will be demolished** as part of this project.* Yes – No facilities will be demolished.

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4. NEW/MODIFIED FACILITY OPERATIONS		
Please confirm our assumption that there would be no operational changes in the following as a result of the reinvestment project: • Radioactive air emissions • Nonradioactive air emissions (incl. fugitive emissions, emissions from emergency generators) • Radioactive liquid effluents quality or quantity • Nonradioactive liquid effluents quality or quantity • Radioactive waste • Hazardous waste • Other waste • Sanitary waste (Emergency Management Building will be connected to pipe to SWSC) • NPDES outfalls • Number of workers • Doses to workers • Types and amounts of waste generated • Resource requirements (e.g., electricity, water, gas, diesel) • Storm water management		TA-55 is not intended to materially change operations of the facility. Its intent is to repair and replace aging and worn components with new ones to enhance public and worker safety, environmental protection, and operational efficiency. It will not increase or change the items listed.
4.1 Confirm or provide the following parameters for the 2 replacement stacks:		
• Stack height • stack diameter • stack exhaust velocity		75 ft 28 inches unchanged
4.2 Identify features to prevent spills that will be included with the storage tank to be added under this project.		The industrial waste tank to be added will have double containment and leak detection features incorporated. It will be improved compared to the existing arrangement.
5. ACCIDENT ANALYSIS		
Please confirm that the TA-55 Reinvestment Project modifications do not change the spectrum of potential accidents or result in any changes to the risk to workers or the public (e.g., the chemical storage tank)		There will be no challenges to the TA-55 DSA or FSAR. The intent is to replace system components with newer ones.