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From: John Isaacson [mailto:isaacson@lanl.gov]

Sent: Thursday, June 02, 2005 3:18 PM

To: KIRK.W.OWENS@saic.com

Cc: ewithers@doeal.gov; torig@lanl.gov; sradz@lanl.gov; janecky@lanl.gov

Subject: CSSR data request

Kirk, attached is the data request for the CSSR project.

JI --

John Isaacson S-SWEIS Project Leader ENV Division M887 (505) 667-2276 (phone) (505) 667-0731 (fax)

	Attachment	
Data Requirement	or Reference Data and/or Notes	
1. DESCRIPTION OF NEW FACILITY	Reference	Data and/or Notes
Description of new construction (e.g., floors, walls, support beams, roof, etc)		There will be more than one building and possibly as many as four. They will be comprised of office space and about 10% light labs.
Plot plan, building floor plan and equipment arrangement		
Building area required (sq ft)		The preliminary plan calls for a total of 696,000 ft2
Features that prevent airborne contaminants from escaping facility		Fume hoods will be used where needed
Features that prevent waterborne contaminants from escaping facility		minimal
Areas of the buildings dedicated to waste processing and storage		Unknown at this time
Based on the location of the new CSSR in an already-developed area of TA-3, we assume that there are no changes or effects on land use, ecological, biological, or wetland resources as a result of this project. Please confirm our assumption.		yes
Information on any cultural resources identified in TA-3 since 2002.		There are no cultural resources in project area, however the Admin Bldg is an historic building. The Sec. 106 consultation and MOA for its demolition will be finalized in FY05
Information on any Traditional Cultural Properties identified withinTA-3 project area		No TCPs in area of potential effect
Information on any contaminated soils or water in the project area, and how they would be managed.		No PRSs in the project area
Schedule (confirm or correct years assumed)		
Design		2007-8
Construction		2008-2010
Operation		>2010
2. CONSTRUCTION OF NEW FACILITY	Use NNSA/EA- 1375	
Sources of noise other than those normally associated with construction activities (for example, blasting). List, including number of events and duration		Use new admin bldg EA as an example of new construction activities and impacts.
Total land disturbance area during construction (acres)		

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Land area occupied when completed (acres)		
Type of soil disturbance during construction (grading, digging, excavation for basements, etc.), and estimated excavated soil volume and disposal information		
Provide reference for erosion and stormwater protection during construction (stormwater pollution prevention plan for construction activities)		
Emissions during construction	Use NNSA/EA- 1375	
Nonradioactive gaseous emissions (kg). List by criteria pollutant and toxic chemicals		
Nonradioactive emissions via water pathway (kg). List regulated chemicals		
Waste generated during construction	Use NNSA/EA- 1375	
Please confirm our assumption that there will be no radioactive emissions or waste generation as a result of construction activities.		Only those, if any, that are normally associated with office and light lab construction.
Hazardous (designate solids and liquids) (m ³)		
Nonhazardous solids (m³)		
Concrete		
Steel		
Other		
Nonhazardous liquids (Sanitary and other) (m ³)		
Other waste		
Material/Resource Requirements During Construction	Use NNSA/EA- 1375	We don't track any of these resources or their levels of use during construction. Use NNSA/EA-1375
Water usage peak (gal/day), and total (gal)), include source and capacity		
Electricity peak use (KW), total use (MWhr), include source and system capacities		
 Is local substation or transformer complex required to support facility construction? If yes, does it need to be constructed? 		
Gasoline (gal)		
Diesel fuel (gal)		
Concrete (yd³)		
 Location of concrete batch plant to assist in facility construction? 		

Steel (tons)	
Crushed stone (yd³)	
Asphalt (yd ³)	
Labor (FTEs) – peak construction workers, total, and time frame	We do not consider labor since we use fixed price design build contracts
Doses to involved workers during construction	
Please confirm our assumption that there are no radiological hazards associated with the construction of the facility.	

3. BASELINE INFORMATION FOR FACILITIES THAT WILL BE DECOMMISSIONED AND DEMOLISHED	Use NNSA/EA- 1375 CSSR will occupy part of the SM-43 footprint	
List facilities for D&D (building name & number, associated program/project, and TA); Also identify former function of facilities undergoing D&D		
List number of employees by facility and TA that will be relocated to new facility		See first table in section 4D of CS SR plan
Radiological operations for existing facilities	These operations will remain where they are currently leads	
Please confirm our assumption that the facilities being vacated are not radioactively contaminated so do not pose an airborne or worker radiation risk.	1	
Air quality (current facility emission data from meteorology and air quality group)		Unknown (too early in planning process)
Emissions data for nonradioactive air pollutants (criteria pollutants and toxics)		
Emission rates (peak short-term and annual average)		
Emission release parameters		
 For stack releases - release location, stack height, stack diameter, stack exhaust velocity or flow rate, exhaust air temperature 		
 For fugitive releases - release location and dimensions (including height) of vents or louvers from which release occurs 		
 Emissions from emergency generators, boilers, etc also need to be specified 		
Material/Resource Use for operation of existing facilities		See CSSR Plan
Wate usage (list source and use by facility) peak (gal/day) and annual usage (gal))		
Electricity (list by facility if available) - peak use (KW), total annual use (MWhr))		Heavy electrical use for some experiments. How much is unknown
Gasoline (gal/yr.)		
Diesel fuel (gal/yr.)		
Other materials and consumables to support operation. (List and provide quantities/yr)		
Waste generated during operations by facility/building. If not available, please indicate which program/projects listed in the Waste Volume Forecast (LA-UR-03-4009, June 2003) will be impacted by the D&D activities, including which TA and building currently houses the program/project.	See P Division Strategic Pl	

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Please confirm our assumption that the facilities being vacated are not radioactively contaminated so do not generate transuranic, low-level or mixed low-level waste.		
Hazardous per year (solids and liquids in m ³ and kg per year)		
Nonhazardous solids (metric tons/yr)		
Nonhazardous liquids per year (Sanitary and other in m³/yr)		
Amount of annual waste water discharge (by facility), include treatment and location of treatment facility		
Surface discharge		
Ground discharge		
 Chemicals released in effluents (List chemicals and quantity/yr) 		
4. DECONTAMINATION, DECOMMISSIONING AND DEMOLITION OF EXISTING FACILITIES		It is not clear if there will be any demolition of vacated buildings associated with the CSSR since no decision has been made to D&D theses buildings. They may be back filled by other programs
List facilities for D&D (building name & number, associated program/project, and TA)		
Area for each facility (ft²)		
Type construction		
Description of sequence and schedule		
Emissions during D&D		
Nonradioactive gaseous emissions (kg). List by criteria pollutant and toxic chemicals.		
Please confirm our assumption that the facilities undergoing D&D will not result in radioactive emission via air or water.		
Nonradioactive emissions via water pathway (kg). List any contaminants of concern.		
Material/Resource Use for D&D of existing facilities		
Water usage total or annual (gal))		
Electricity (average use per day (KWhr), peak use (KW), total use (MWhr))		
Gasoline (gal)		
Diesel fuel (gal)		
Other materials and consumables to support D,D&D. (List and provide quantities)		
Labor (FTEs) – Provide information on peak and total number of employees for D,D&D of existing facilities		

Waste generated during D,D&D (indicate units used)	See D&D data provided for other facilities to use as a model. No specific for this project exists.
Please confirm our assumption that there will be no radioactive waste generated as a result of the D&D of these facilities.	
Hazardous waste (solids and liquids (e.g. m³ and kg))	
Nonhazardous solids	
Concrete	
• Steel	
 Other 	
Nonhazardous liquids (Sanitary and other)	
Doses to involved workers	
Please confirm our assumption that there will be no radiation dose to workers associated with the D&D of these facilities.	
5. NEW (or replacement) FACILITY OPERATIONS	
Radiological operations for new facility	
Please confirm our assumption that there will be no radioactive materials used in the new building.	Minimal radiological activities will occur, but limits must fit into limits for TA-3
Air Quality during Operations – projections from processing group	Not available
Emissions data for nonradioactive air pollutants (criteria pollutants and toxics)	
Emission rates (peak short-term and annual average)	
Emission release parameters	
 For stack releases - release location, stack height, stack diameter, stack exhaust velocity or flow rate, exhaust air temperature 	
 For fugitive releases - release location and dimensions (including height) of vents or louvers from which release would occur 	
 Emissions from emergency generators, boilers, etc also need to be specified 	
Water quality during Operations	Not Available
Identify the quantity/quality of liquid discharges from the facility, any contaminants, and how it will be managed.	
Material/Resource Requirements during Operations	Not Available
Surface or ground water usage (average (gal/day), peak (gal/day), and total (gal))	
Potable and Process water makeup (average (gal/day), peak (gal/day), and total (gal))	

 1A-3) Dala Request
Possibly up to 1000
Will occupy part of the foot print of the old Admin. Bldg.
Don't know yet.

Provide the relative distance between storage locati individual chemical.	ons for each		
Provide the facility outside dimensions above ground length, width, and height.	d level of		