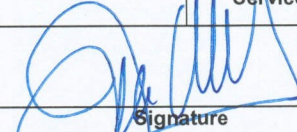




02/20/07

LCLS Room Data Sheet #	1.9-1062	Beam Transport Hall West - Service Building # 106	Revision 0
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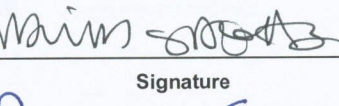
Javier A. Sevilla
Owner / Editor

Signature Date 6/12/07


Jim Welch
System Physicist

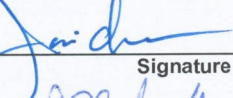
Signature Date 6/7/07

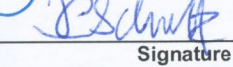
Jim Turner
IMT Integration


Signature Date 6-7-07


David Saenz
Conventional Facilities System
Manager

Signature Date 6/20/07

Jess Albino
Associate Director
Conventional Facilities

Signature Date 6/20/07

Jose Chan
Linac WBS Manager

Signature Date 6/20/07

David Schultz
E-Beams System Manager

Signature Date 6/7/07

Hamid Shoaee
Controls System Manager

Signature Date 6-7-07

Darren Marsh
Quality Assurance Manager

Signature Date 6/21/07

REVISION INFORMATION

ROOM DATA SHEETS

System & WBS Manager: Dave Schultz/Jose Chan

FACILITY COMPONENT	BTH SERVICE BLDG# 106 - ROOM DATA SHEET										
	Name of Building	BTH WEST Service Building # 106- Building is Existing									
	Organization or Department	SLAC, Stanford University									
	Net area	20.4 sq. meters 180 sf									
	Critical dimensions	<table border="1"> <tr> <td>H:</td> <td>3.66 m</td> <td>12'</td> </tr> <tr> <td>W:</td> <td>3.66 m</td> <td>12'</td> </tr> <tr> <td>L:</td> <td>5.57 m</td> <td>15'</td> </tr> </table>	H:	3.66 m	12'	W:	3.66 m	12'	L:	5.57 m	15'
H:	3.66 m	12'									
W:	3.66 m	12'									
L:	5.57 m	15'									
	Hours of operation	24/7/365 locked, occupied only for equipment service and maintenance									
	Users/Occupancy	Only during service and maintenance periods									
	Building orientation	East/West									
FUNCTIONAL OBJECTIVE	To house rack mounted diagnostic equipment to run/monitor the BTH West and BSY.										
PLANNING CONSIDERATIONS & CRITICAL FACTORS	1) Building is existing and is located on top of BTH West area. 2) Re-use existing penetrations.										
FINISHES		Existing Corrugated steel, insulated, painted surface (SLAC Home Spun brown exterior)									
	Ceiling	Existing Corrugated steel, insulated									
	Floor	Existing sealed concrete floor-									
	Base	None									
	Doors	3 ft by 7ft high metal door.									
	Fenestrations	NA									
	Acoustical	NA									
APPLICABLE STANDARDS	29 CFR Part 1910 Occupational Safety Health Standard Dept of Labor and Part 1926 Safety and Health Regulations for Construction Dept of Labor Uniform Building Code (UBC) 1997 including appendixes, National Electrical Code (NEC) 2002, 2003 Uniform Mechanical Code (UMC) including appendixes, 2003 Uniform Plumbing Code (UPC) including appendixes, Uniform Fire Code (UFC) including appendixes, California Code of Regulations title 8 Industrial Safety, Title 19 Public Safety, NFPA 70 National Fire Codes, National Electrical Safety Code ANSI C2, Occupational Safety Health Act (OSHA), General Services Administration 41 CFR part 101-19, Environmental Protection Agency 40 CFR Parts 264 and 266 SLAC Environmental safety and Health Manual, General Industrial Activities Storm Water Permit (SLAC Permit), NFPA 101 Life Safety Code, Title 24 Energy Code Standards, DOE Standard 10 CFR Part 435, ASHRAE/IES Standard 90.1 Fire Marshal requirements, LCLS Cabling Standard and SLAC LOTO and LCLS Fire Hazard Analysis, Title I										

Figure No. 1



EXTERIOR VIEW OF BUILDING

Figure No. 2



EXTERIOR VIEW OF BUILDING-LOOKING SOUTH

Continued

MECHANICAL REQUIREMENTS	HVAC	<input type="checkbox"/> Heating system	Temp:	<input type="checkbox"/> Mechanical humidification	
		<input checked="" type="checkbox"/> Air conditioning-Existing	Temp: 75 F	<input type="checkbox"/> Direct exhaust system	
		<input type="checkbox"/> Direct supply		<input type="checkbox"/> Positive pressure system	
		<input type="checkbox"/> Indirect supply		<input type="checkbox"/> Negative pressure system	
		<input type="checkbox"/> Smoke control system		<input type="checkbox"/> Standard registers	
		<input checked="" type="checkbox"/> Temperature sensors		<input type="checkbox"/> Requirement for gases	
		a) Service building has a room air conditioning unit. Maximum heat rejected load per each single rack is: 2 kW		b) Existing HVAC system to provide conditioned air to the building.	
	Communications	<input checked="" type="checkbox"/> Telephone- Existing		<input type="checkbox"/> PA speakers	
		<input type="checkbox"/> Dataport		<input type="checkbox"/> PA station	
		<input type="checkbox"/> Payphone		<input type="checkbox"/> CCTV camera	
		<input checked="" type="checkbox"/> Fire alarm station- existing		<input type="checkbox"/> CCTV monitor	
		<input type="checkbox"/> Intercom			
		Comments: a) Existing cable trays are adequate to remain. b) Provide 1 #4/0 ground wire to all existing and new cable trays. c) Single Racks are existing. Verify grounding wiring for existing I&C racks. d) Provide cover for existing cable trays located outside the building.			
	Plumbing/Fire Protection	<input type="checkbox"/> Hot water system		<input type="checkbox"/> Electric watercooler	
		<input type="checkbox"/> Cold water system		<input type="checkbox"/> Drinking fountain Bottled	
		<input type="checkbox"/> Tempered water		<input checked="" type="checkbox"/> Smoke detection system - Existing	
		<input type="checkbox"/> Waste drain		<input type="checkbox"/> Wet sprinkler heads	
		<input type="checkbox"/> Floor drain		<input type="checkbox"/> Eye wash	
		<input type="checkbox"/> Trench drain			
		Comments: a) Verify that existing smoke detectors are operational.			
ELECTRICAL REQUIREMENTS	Instrumentation and Controls	<input checked="" type="checkbox"/> 208 V outlets, 3 phase		<input type="checkbox"/> Uninterrupted power supply	
		<input checked="" type="checkbox"/> 110V outlets -20 amps		<input type="checkbox"/> Special electric	
		<input type="checkbox"/> Emergency power		Type:	
		Comments: a) Building will house Four single racks for I& C. Power 208/120 volts, 3 phase.100 amps.. One panel for "clean" power. Panel board is existing and shall have a main breaker with a minimum capacity of 125 amps These panels shall be independent of any power panel needed for Utilities, HVAC equipment and service outlets. b) Panel location: Power on the wall of service building. c) All conduits and light fixtures are surface mounted. Verify they are working properly.			
	Lighting	<input checked="" type="checkbox"/> Light fixtures- Existing		<input type="checkbox"/> Remote lighting control	
		<input type="checkbox"/> Fixture type I: Downright		<input checked="" type="checkbox"/> Light switches-existing	
		<input type="checkbox"/> Fixture type II: Bollard (exterior)		<input checked="" type="checkbox"/> Lighting level	FC: 30
		<input checked="" type="checkbox"/> Emergency lighting-			
		Comments: Verify all lighting fixtures are operational.			

RADIATION/SEISMIC/VIBRATIONS ISSUES	Comments: 1). Existing penetrations are located outside building to comply with Radiation Physics requirements-	
SPECIAL REQUIREMENTS FOR EQUIPMENT	Comments: 1) Existing cable trays are adequate for I& C racks	
ENVIRONMENTAL NEEDS		