



LCLS Room Data Sheet #	1.9-1032	Near Experimental Hall - Receiving Area	Revision 2
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8/12/05

Signature

Date

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8/12/05

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REVISION INFORMATION

Rev 2, Changed amps for outlets and updated Standards and Codes- Added diversity factor for electrical panels.

ROOM DATA SHEETS

FACILITY COMPONENT	RECEIVING AREA - ROOM DATA SHEET																										
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FUNCTIONAL OBJECTIVE	To provide a centrally located area large enough to pack or unpack large pieces of laser equipment and have the area adjacent to the building storage room and the freight elevator facilitating convenient access to storage and vertical transportation to other areas of the facility.																										
PLANNING CONSIDERATIONS & CRITICAL FACTORS	Critical adjacencies with the exterior service dock, the Building Storage Room and the Freight elevator.																										
FINISHES	<table border="1" style="width: 100%;"> <tr> <td style="width: 25%;">Walls</td> <td colspan="2">Painted gypsum board wall assembly</td> </tr> <tr> <td>Ceiling</td> <td colspan="2">Exposed painted reinforced concrete, painted surface</td> </tr> <tr> <td>Floor</td> <td colspan="2">Epoxy floor coating</td> </tr> <tr> <td>Base</td> <td colspan="2">Rubber base or epoxy floor coating turned vertically providing an intergral base / floor.</td> </tr> <tr> <td>Doors</td> <td colspan="2">1- Pair of 3ft wide by 7 ft high insulated exterior door with 1/2 windows. 2- 12ft wide by 10ft high insulated coiling equipment access door.</td> </tr> <tr> <td>Fenestration</td> <td colspan="2">NA</td> </tr> <tr> <td>Acoustical</td> <td colspan="2">NA</td> </tr> </table>		Walls	Painted gypsum board wall assembly		Ceiling	Exposed painted reinforced concrete, painted surface		Floor	Epoxy floor coating		Base	Rubber base or epoxy floor coating turned vertically providing an intergral base / floor.		Doors	1- Pair of 3ft wide by 7 ft high insulated exterior door with 1/2 windows. 2- 12ft wide by 10ft high insulated coiling equipment access door.		Fenestration	NA		Acoustical	NA					
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APPLICABLE STANDARDS	29 CFR Part 1910 Occupational Safety and Health Standards Dept of Labor, 29 CFR Part 1926 Safety and Health Regulations for Construction Dept of Labor, Uniform Building Code (UBC) 1997 including appendixes, National Electric Code (NEC) 2002, Uniform Mechanical Code (UMC) 2003 including appendixes, Uniform Plumbing Code (UPC) 2003 including appendixes, Uniform Fire Code (UFC) 1997 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 and Health Act (OSHA), General Services Administration 41 CFR part 101-19, Environmental Protection Agency 40 CFR Parts 264 and 265, SLAC Environmental Safety & Health Manual, General Industrial Activities Storm Water Permit (SLAC Permit), NFPA 101 life Safety Code, Title 24, DOE standard 10 CFR Part 435, ASHRAE/IES Standards 90.1, NFPA Standard 13 and SLAC Fire Marshal requirements, LCLS Cabling Standard, SLAC LOTO			
IEWS & SCHEMATICS (N. T. S.)	See RDS NEH Overall			
9.11 LIST OF RECEIVING AREA EQUIPMENT		Equipment	Watts/Voltage	Nos.
	Other	Equipment	Watts/Voltage	Nos.

MECHANICAL REQUIREMENTS	HVAC	<input checked="" type="checkbox"/>	Heating system	Temp: 70 F, 3 degree F	<input type="checkbox"/>	Mechanical humidification	
		<input checked="" type="checkbox"/>	Air conditioning	Temp: 72 degrees F \pm 3 degree F	<input type="checkbox"/>	Direct exhaust system - for laser table experiment enclosures only.	
		<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 connected to SLAC's DDC system		<input type="checkbox"/>	Requirement for gases	
		Centralized Mechanical Utilities:					
	Communications	<input checked="" type="checkbox"/>	Telephone- 2 phone outlets/per location- Two locations		<input type="checkbox"/>	PA speakers	
		<input checked="" type="checkbox"/>	Dataport- 2 outlets/per location- Two Locations		<input type="checkbox"/>	PA station	
		<input type="checkbox"/>	Payphone			CCTV camera	
		<input checked="" type="checkbox"/>	Fire alarm station		<input type="checkbox"/>	CCTV monitor	
			Intercom		<input checked="" type="checkbox"/>	Buzzer or Ring bell located outside next to man door	
		Comments:					
	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	
		<input type="checkbox"/>	Tempered water		<input checked="" type="checkbox"/>	Smoke detection system	
		<input type="checkbox"/>	Waste drain		<input checked="" type="checkbox"/>	Standard sprinkler heads	
		<input type="checkbox"/>	Floor drain		<input type="checkbox"/>	Eye wash / Safety shower	
		<input type="checkbox"/>	Trench drain				
Comments:							
ELECTRICAL REQUIREMENTS	Power supply	<input type="checkbox"/>	208V 1ph outlets		<input type="checkbox"/>	Uninterrupted power supply	
		<input checked="" type="checkbox"/>	110V 1ph outlets		<input type="checkbox"/>	Special electric	Type:
		<input type="checkbox"/>	Emergency power				
Comments:		1- Provide two panels (one "clean" and one "dirty" power) in Receiving area outside of Vacuum shop (see fig NEH panel location). All panels should have a main circuit breaker. Capacity each panel 100 amps-min. Voltage 120/208-3 phase-Diversity factor: 50%- (Note: Panels to provide service to the Vacuum Shop) 2- Number of circuits: Minimum 24 each for clean and dirty power panel. 3- Provide double duplex outlets, 120 volts, 20 amp, 1phase, every 10 feet along perimeter walls. 4- All conduits are surface mounted.					
	Lighting	<input checked="" type="checkbox"/>	Light fixtures - pendant suspended florescent shop lighting with protective cage.		<input type="checkbox"/>	Remote lighting control	
		<input type="checkbox"/>	Fixture type I: Downlight		<input checked="" type="checkbox"/>	Light switches	
		<input type="checkbox"/>	Fixture type II: Bollard (exterior)		<input checked="" type="checkbox"/>	Lighting level	FC: 50
		<input checked="" type="checkbox"/>	Emergency lighting				
		Comments:					

RADIATION/SEISMIC/VIBRATION ISSUES	Comments: 1- All equipment (HVAC, panels, etc) and systems are to be seismically braced and restrained per SLAC's seismic Standards and Code.					
SPECIAL REQUIREMENTS FOR EQUIPMENT	Comments:					
CHEMICALS / GASES		CHEMICALS			SPECIALTY GASES	
		#	Chemical Type	Quantity	#	Gas Type
ENVIRONMENTAL NEEDS						