GENERAL NOTES

1. ALL PANELS SHOWN 84 CIRCUIT SHALL CONSIST OF THE FOLLOWING: FIRST SECTION WITH 42 POLES, MAIN BREAKER AND FEED THROUGH LUGS; SECOND SECTION WITH 42 POLES AND MAIN LUGS ONLY OF SAME AMPACITY OF FIRST SECTION.

Branch Panel: 1N-PL12

Location: LER L002A **Supply From:** 1N-DL1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10,000 **Mains Type:** Copper **Mains Rating:** 225 A **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle SG001B-2 L027-2	20 A	1	540 W	360 W					1	20 A	Receptacle SG001B-2 L027-2	2
3	Receptacle SG001B-2 L027-2	20 A	1			540 W	90 W			2	20 A	Receptacle SG001B-2 L027-2	4
5	Receptacle SG001B-2 L027-2	20 A	2					90 W	90 W	--	--	--	6
7	--	--	--	90 W	90 W					2	20 A	Receptacle SG001B-2 L027-2	8
9	Receptacle SG001B-1 L027-1	20 A	1			180 W	90 W			--	--	--	10
11	Receptacle SG001B-2 L027-2	20 A	1					1000	500 W	2	20 A	Receptacle SG001B-2 L027-2	12
13	Receptacle SG001B-2 L027-2	20 A	2	500 W	500 W					--	--	--	14
15	--	--	--			500 W	1000			1	20 A	Receptacle SG001B-2 L027-2	16
17	Receptacle SG001B-2 L027-2	20 A	1					1000	1000	1	20 A	Receptacle SG001B-2 L027-2	18
19	Receptacle SG001B-2 L027-2	20 A	1	1000	500 W					2	20 A	Receptacle SG001B-2 L027-2	20
21	Receptacle SG001B-2 L027-2	20 A	1			1000	500 W			--	--	--	22
23	Receptacle SG001B-2 L027-2	20 A	1					1000	1000	1	20 A	Receptacle SG001B-2 L027-2	24
25	Receptacle SG001B-2 L027-2	20 A	2	500 W	250 W					2	20 A	Receptacle SG001B-2 L027-2	26
27	--	--	--			500 W	250 W			--	--	--	28
29	Receptacle SG001B-2 L027-2	20 A	1					1000	500 W	1	20 A	Receptacle SG001B-2 L027-2	30
31	Receptacle SG001B-2 L027-2	20 A	1	1000	500 W					2	20 A	Receptacle SG001B-2 L027-2	32
33	Receptacle SG001B-2 L027-2	20 A	2			500 W	500 W			--	--	--	34
35	--	--	--					500 W	1000	1	20 A	Receptacle SG001B-2 L027-2	36
37	Receptacle SG001B-2 L027-2	20 A	1	1000	1000					1	20 A	Receptacle SG001B-2 L027-2	38
39	Receptacle SG001B-2 L027-2	20 A	1			1000	1000			1	20 A	Receptacle SG001B-2 L027-2	40
41	Receptacle SG001B-2 L027-2	20 A	1					1000	500 W	2	20 A	Receptacle SG001B-2 L027-2	42
43	Receptacle SG001B-2 L027-2	20 A	2	500 W	500 W					--	--	--	44
45	--	--	--			500 W	1000			1	20 A	Receptacle SG001B-2 L027-2	46
47	Receptacle SG001B-2 L027-2	20 A	1					1000	1000	1	20 A	Receptacle SG001B-2 L027-2	48
49	Receptacle SG001B-2 L027-2	20 A	2	250 W	500 W					1	20 A	Receptacle SG001B-2 L027-2	50
51	--	--	--			250 W	250 W			2	20 A	Receptacle SG001B-2 L027-2	52
53	Receptacle SG001B-2 L027-2	20 A	1					500 W	250 W	--	--	--	54
55	Receptacle SG001B-1 L027-1	20 A	1	500 W	500 W					1	20 A	Receptacle SG001B-1 L027-1	56
57	Receptacle SG001B-1 L027-1	20 A	1			500 W	500 W			1	20 A	Receptacle SG001B-1 L027-1	58
59	Receptacle SG001B-1 L027-1	20 A	1					500 W	500 W	1	20 A	Receptacle SG001B-1 L027-1	60
61	Spare	20 A	1	0 W	0 W					1	20 A	Spare	62
63	Spare	20 A	1			0 W	0 W			1	20 A	Spare	64
65	Spare	20 A	1					0 W	0 W	1	20 A	Spare	66
67	Spare	20 A	1	0 W	0 W					1	20 A	Spare	68
69	Spare	20 A	1			0 W	0 W			1	20 A	Spare	70
71	Spare	20 A	1					0 W	0 W	1	20 A	Spare	72
73	Space	--	--	0 W	0 W					--	--	Space	74
75	Space	--	--			0 W	0 W			--	--	Space	76
77	Space	--	--					0 W	0 W	--	--	Space	78
79	Space	--	--	0 W	0 W					--	--	Space	80
81	Space	--	--			0 W	0 W			--	--	Space	82
83	Space	--	--					0 W	0 W	--	--	Space	84
			Total Load:	10580 W		10650 W		13930 W					
			Total Amps:	88 A		89 A		116 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	35160 W	64.22%	22580 W		
				Total Conn. Load:	35160 W
				Total Est. Demand:	22580 W
				Total Conn. Current:	98 A
				Total Est. Demand Current:	63 A

Notes: 200% Neutral

Branch Panel: 1N-PL13

Location: LER L002A **Supply From:** 1N-DL1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10,000 **Mains Type:** Copper **Mains Rating:** 225 A **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle SG005A-2 L026-2	20 A	1	1500	500 W					1	20 A	Receptacle SG005A-1 L026-1	2
3	Receptacle SG005A-1 L026-1	20 A	1			500 W	500 W			1	20 A	Receptacle SG005A-1 L026-1	4
5	Receptacle SG005A-1 L026-1	20 A	1					500 W	500 W	1	20 A	Receptacle SG005A-1 L026-1	6
7	Receptacle SG005A-1 L026-1	20 A	1	500 W	500 W					1	20 A	Receptacle SG005A-1 L026-1	8
9	Receptacle SG005A-1 L026-1	20 A	1			500 W	180 W			1	20 A	Receptacle SG001A-2 L028-2	10
11	Receptacle SG001A-1 L028-1	20 A	1					500 W	500 W	1	20 A	Receptacle SG005A-1 L026-1	12
13	Receptacle SG001A-1 L028-1	20 A	1	500 W	500 W					1	20 A	Receptacle SG005A-1 L026-1	14
15	Receptacle SG001A-1 L028-1	20 A	1			500 W	500 W			1	20 A	Receptacle SG005A-1 L026-1	16
17	Receptacle SG001A-1 L028-1	20 A	1					500 W	500 W	1	20 A	Receptacle SG005A-1 L026-1	18
19	Receptacle SG001A-2 L028-2	20 A	1	360 W	500 W					1	20 A	Receptacle SG001A-1 L028-1	20
21	Receptacle SG001A-1 L028-1	20 A	1			500 W	500 W			1	20 A	Receptacle SG001A-1 L028-1	22
23	Receptacle SG001A-1 L028-1	20 A	1					500 W	500 W	1	20 A	Receptacle SG001A-1 L028-1	24
25	Receptacle SG001A-1 L028-1	20 A	1	500 W	500 W					1	20 A	Receptacle SG001A-1 L028-1	26
27	Receptacle SG001A-1 L028-1	20 A	1			500 W	540 W			1	20 A	Receptacle Room L028-2, L026-2	28
29	Receptacle SG005A-2 L026-2	20 A	1					360 W	90 W	2	15 A	Receptacle SG001A-2 L028-2	30
31	Receptacle SG001A-2 L028-2	20 A	2	2080	90 W					--	--	--	32
33	--	--	--			2080	90 W			2	20 A	Receptacle SG001A-2 L028-2	34
35	Receptacle SG001A-1 L028-1	20 A	1					500 W	90 W	--	--	--	36
37	Receptacle SG001A-1 L028-1	20 A	1	500 W	500 W					1	20 A	Receptacle SG001A-1 L028-1	38
39	Receptacle SG001A-2 L028-2	20 A	1			180 W	500 W			1	20 A	Receptacle SG001A-1 L028-1	40
41	Spare	20 A	1					0 W	0 W	1	20 A	Spare	42
43	Spare	20 A	1	0 W	0 W					1	20 A	Spare	44
45	Spare	20 A	1			0 W	0 W			1	20 A	Spare	46
47	Spare	20 A	1					0 W	0 W	1	20 A	Spare	48
49	Spare	20 A	1	0 W	0 W					1	20 A	Spare	50
51	Spare	20 A	1			0 W	0 W			1	20 A	Spare	52
53	Spare	20 A	1					0 W	0 W	1	20 A	Spare	54
55	Spare	20 A	1	0 W	0 W					1	20 A	Spare	56
57	Spare	20 A	1			0 W	0 W			1	20 A	Spare	58
59	Spare	20 A	1					0 W	0 W	1	20 A	Spare	60
61	Spare	20 A	1	0 W	0 W					1	20 A	Spare	62
63	Space	--	--			0 W	0 W			--	--	Space	64
65	Space	--	--					0 W	0 W	--	--	Space	66
67	Space	--	--	0 W	0 W					--	--	Space	68
69	Space	--	--			0 W	0 W			--	--	Space	70
71	Space	--	--					0 W	0 W	--	--	Space	72
73	Space	--	--	0 W	0 W					--	--	Space	74
75	Space	--	--			0 W	0 W			--	--	Space	76
77	Space	--	--					0 W	0 W	--	--	Space	78
79	Space	--	--	0 W	0 W					--	--	Space	80
81	Space	--	--			0 W	0 W			--	--	Space	82
83	Space	--	--					0 W	0 W	--	--	Space	84
			Total Load:	9030 W		7570 W		5040 W					
			Total Amps:	78 A		66 A		42 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	21640 W	73.11%	15820 W		
				Total Conn. Load:	21640 W
				Total Est. Demand:	15820 W
				Total Conn. Current:	60 A
				Total Est. Demand Current:	44 A

Notes: 200% Neutral

Branch Panel: 1N-PL14

Location: MAIN MECHANICAL 187 **Supply From:** 1N-DL1 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10,000 **Mains Type:** Copper **Mains Rating:** 225 A **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle LER-2 L002A-2	20 A	1	9000	90 W					2	20 A	Receptacle LER-2 L002A-2	2
3	Receptacle LER-2 L002A-2	20 A	2			90 W	90 W			--	--	--	4
5	--	--	--					90 W	90 W	2	20 A	Receptacle LER-2 L002A-2	6
7	Space	--	--	0 W	90 W					--	--	--	8
9	Space	--	--			0 W	90 W			2	20 A	Receptacle LER-2 L002A-2	10
11	Receptacle LER-2 L002A-2	20 A	1					5580	90 W	--	--	--	12
13	Receptacle LER-2 L002B-2	20 A	1	180 W	180 W					1	20 A	Receptacle LER-2 L002A-2	14
15	Receptacle LER-2 L002A-2	20 A	1			540 W	900 W			1	20 A	Receptacle LER-2 L002A-2	16
17	Receptacle LER-2 L002B-2	20 A	1					180 W	180 W	1	20 A	Receptacle MAIN MECHANICAL-2 187-2	18
19	Receptacle MAIN MECHANICAL-2 187-2	20 A	1	180 W	180 W					1	20 A	Receptacle MAIN MECHANICAL-2 187-2	20
21	Receptacle MAIN MECHANICAL-2 187-2	20 A	2			90 W	720 W			1	20 A	Receptacle Room 186-2, 187-2	22
23	--	--	--					90 W	900 W	1	20 A	Receptacle Room 186-2, 187-2	24
25	Receptacle	20 A	1	360 W	691 W					1	20 A	UH-200B	26
27	AD-2	20 A	1			691 W	691 W			1	20 A	AD-1	28
29	Receptacle MAIN MECHANICAL-2 187-2	20 A	1					540 W	180 W	1	20 A	Receptacle	30
31	Receptacle MAIN MECHANICAL-2 187-2	20 A	1	1600	1600					1	20 A	Receptacle MAIN MECHANICAL-2 187-2	32
33	Spare	20 A	1			0 W	0 W			1	20 A	Spare	34
35	Spare	20 A	1					0 W	0 W	1	20 A	Spare	36
37	Spare	20 A	1	0 W	0 W					--	--	Space	38
39	Space	--	--			0 W	0 W			--	--	Space	40
41	Space	--	--					0 W	0 W	--	--	Space	42
			Total Load:	14151 W		3902 W		7920 W					
			Total Amps:	123 A		33 A		71 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2073 W	108.33%	2246 W		
Receptacle	23900 W	70.92%	16950 W	Total Conn. Load:	25973 W
				Total Est. Demand:	19196 W
				Total Conn. Current:	72 A
				Total Est. Demand Current:	53 A

Notes: 200% Neutral

Branch Panel: 1N-PL21

Location: LER L001E1 **Supply From:** 1N-DL2 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10,000 **Mains Type:** Copper **Mains Rating:** 225 A **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle B-011 OPEN LAB-2 L030-2	20 A	1	360 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	2
3	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	500 W			1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	4
5	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1					500 W	500 W	1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	6
7	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1	500 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	8
9	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	360 W			1	20 A	Receptacle B-011 OPEN LAB-2 L030-2	10
11	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1					500 W	500 W	1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	12
13	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1	500 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	14
15	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	500 W			1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	16
17	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1					500 W	500 W	1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	18
19	Receptacle B-015-2 L029-2	20 A	1	540 W	360 W					1	20 A	Receptacle Room L030-2, L029-2	20
21	Receptacle B-015-2 L029-2	20 A	1			360 W	2080			2	20 A	Receptacle B-015-2 L029-2	22
23	Receptacle B-015-2 L029-2	20 A	2					2080	2080	--	--	--	24
25	--	--	--	2080	360 W					1	20 A	Receptacle B-011 OPEN LAB-2 L030-2	26
27	Receptacle B-015-2 L029-2	20 A	2			2080	180 W			1	20 A	Receptacle Room L030-2, L029-2	28
29	--	--	--					2080	500 W	1	20 A	Receptacle B-015-2 L029-2	30
31	Receptacle B-012-2 L031-2	20 A	1	540 W	500 W					1	20 A	Receptacle B-015-1 L029-1	32
33	Receptacle B-012-2 L031-2	20 A	1			540 W	540 W			1	20 A	Receptacle B-012-2 L031-2	34
35	Receptacle B-012-2 L031-2	20 A	1					180 W	540 W	1	20 A	Receptacle B-012-2 L031-2	36
37	Receptacle B-012-2 L031-2	30 A	2	1150	90 W					2	20 A	Receptacle B-012-2 L031-2	38
39	--	--	--			1150	90 W			--	--	--	40
41	Receptacle B-012-2 L031-2	20 A	2					90 W	90 W	2	20 A	Receptacle B-012-2 L031-2	42
43	--	--	--	90 W	90 W					--	--	--	44
45	Receptacle B-015-1 L029-1	20 A	1			500 W	90 W			2	20 A	Receptacle B-012-2 L031-2	46
47	Receptacle B-015-1 L029-1	20 A	1					500 W	90 W	--	--	--	48
49	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1	500 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	50
51	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	500 W			1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	52
53	Receptacle B-015-1 L029-1	20 A	1					500 W	500 W	1	20 A	Receptacle B-015-1 L029-1	54
55	Receptacle B-015-1 L029-1	20 A	1	500 W	500 W					1	20 A	Receptacle B-015-1 L029-1	56
57	Receptacle B-015-2 L029-2	20 A	1			500 W	500 W			1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	58
59	Spare	20 A	1					0 W	0 W	1	20 A	Spare	60
61	Spare	20 A	1	0 W	0 W					1	20 A	Spare	62
63	Spare	20 A	1			0 W	0 W			1	20 A	Spare	64
65	Space	--	--					0 W	0 W	1	20 A	Spare	66
67	Space	--	--	0 W	0 W					1	20 A	Spare	68
69	Space	--	--			0 W	0 W			1	20 A	Spare	70
71	Space	--	--					0 W	0 W	1	20 A	Spare	72
73	Space	--	--	0 W	0 W					1	20 A	Spare	74
75	Space	--	--			0 W	0 W			1	20 A	Spare	76
77	Space	--	--					0 W	0 W	1	20 A	Spare	78
79	Space	--	--	0 W	0 W					1	20 A	Spare	80
81	Space	--	--			0 W	0 W			1	20 A	Spare	82
83	Space	--	--					0 W	0 W	1	20 A	Spare	84
			Total Load:	10660 W		12470 W		12230 W					
			Total Amps:	89 A		106 A		104 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	35360 W	64.14%	22680 W		
				Total Conn. Load:	35360 W
				Total Est. Demand:	22680 W
				Total Conn. Current:	98 A
				Total Est. Demand Current:	63 A

Notes: 200% Neutral

Branch Panel: 1N-PL22

Location: LER L001E1 **Supply From:** 1N-DL2 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 10,000 **Mains Type:** Copper **Mains Rating:** 225 A **MCB Rating:** 150 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle B-011 OPEN LAB-2 L030-2	20 A	1	360 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	2
3	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	500 W			1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	4
5	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1					500 W	500 W	1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	6
7	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1	500 W	500 W					1	20 A	Receptacle B-011 OPEN LAB-1 L030-1	8
9	Receptacle B-011 OPEN LAB-1 L030-1	20 A	1			500 W	540 W			1	20 A	Receptacle B-013-2 L032-2	10
11	Receptacle B-013-2 L032-2	25 A	1					2136	540 W	1	20 A	Receptacle B-013-2 L032-2	12
13	Receptacle B-013-2 L032-2	20 A	1	720 W	540 W					1	20 A	Receptacle B-013-2 L032-2	14
15	Receptacle B-013-2 L032-2	20 A	1			1500	600 W			1	20 A	Receptacle B-013-2 L032-2	16
17	Receptacle Room L030-2, L032-2	20 A	1					360 W	180 W	1	20 A	Receptacle B-013-2 L032-2	18
19	Receptacle B-013-2 L032-2	20 A	2	90 W	90 W					2	20 A	Receptacle B-013-2 L032-2	20
21	--	--	--			90 W	90 W			--	--	--	22
23	Receptacle B-013-2 L032-2	20 A	2					1000	1500	1	20 A	Receptacle B-013-2 L032-2	24
25	--	--	--	1000	0 W					1	20 A	Spare	26
27	Space	--	--			0 W	0 W			1	20 A	Spare	28
29	Space	--	--					0 W	0 W	1	20 A	Spare	30
31	Receptacle Room L034-2, L035-1, L033-2	20 A	1	360 W	0 W					1	20 A	Spare	32
33	Receptacle B-013-2 L032-2	20 A	1			500 W	0 W			1	20 A	Spare	34
35	Receptacle B-013-2 L032-2	20 A	1					500 W	0 W	--	--	Space	36
37	Space	--	--	0 W	0 W					--	--	Space	38
39	Space	--	--			0 W	0 W			--	--	Space	40
41	Space	--	--					0 W	0 W	--	--	Space	42
			Total Load:	4660 W		4820 W		7216 W					
			Total Amps:	39 A		40 A		60 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	16696 W	79.95%	13348 W		
				Total Conn. Load:	16696 W
				Total Est. Demand:	13348 W
				Total Conn. Current:	46 A
				Total Est. Demand Current:	37 A

Notes: 200% Neutral

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REV. NO.	DESCRIPTION	BY	APVD	DATE
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Argonne NATIONAL LABORATORY

FMS
Facilities Management Services

PROJECT TITLE: ADVANCED PROTEIN CRYSTALLIZATION FACILITY, ARGONNE NATIONAL LABORATORY

PROJECT NO: 08541-00

DRAWING TITLE: POWER PANEL SCHEDULES

DESIGNED: DLW	A/E CADD FILE: E7.0.4	FACILITY NO(S)
DRAWN: DLW	A/E DWG. NO.: E7.0.4	
CHECKED: BRB	CAD NO:	
PROJECT MANAGER: ANL - JESSE ADAMS, DATE - 04/26/11	DWG STATE / BIND ORDER	
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