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.

Distribution: 1N-DH1

Location: MAIN ELECTRICAL 186
Supply From: 1N-GH1
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 35,000
Mains Type: Copper
Mains Rating: 800 A
MCB Rating:

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	1N-PH1	3	150 A	150 A	13314 W	
2	1N-PH2	3	150 A	150 A	17224 W	
3	1N-PH3	3	150 A	150 A	75022 W	
4	1N-PH4	3	150 A	150 A	155972 W	
5	1N-PH5	3	150 A	150 A	7442 W	
6	1N-PH6	3	150 A	150 A	7048 W	
7	H-1A	3	150 A	125 A	72000 W	
8	H-1B	3	225 A	175 A	96000 W	
9	H-2A	3	150 A	125 A	72000 W	
10	H-2B	3	225 A	175 A	96000 W	
11	HRW-1	3	20 A	15 A	2261 W	
12	HRW-2	3	20 A	15 A	2261 W	
13	Spare	3	225 A	225 A	0 W	
14	Spare	3	225 A	225 A	0 W	
15	Space	--	--	--	0 W	--
16	Space	--	--	--	0 W	--
				Total Conn. Load:	613423 W	
				Total Amps:	738 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	41800 W	100.00%	41800 W		
Motor	436623 W	105.50%	460623 W	**Total Conn. Load:**	613423 W
Other	0 W	0.00%	0 W	**Total Est. Demand:**	574923 W
Receptacle	135000 W	53.70%	72500 W	**Total Conn. Current:**	738 A
				Total Est. Demand Current:	692 A

Notes:

Switchboard: 1N-DL1

Location: MAIN ELECTRICAL 186
Supply From: T-1RA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: Copper
Mains Rating: 1000 A
MCB Rating: 1000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	1N-PL1	3	150 A	150 A	13300 W	
2	1N-PL2	3	150 A	150 A	38440 W	
3	1N-PL3	3	150 A	150 A	14700 W	
4	1N-PL4	3	150 A	150 A	11980 W	
5	1N-PL5	3	150 A	150 A	26994 W	
6	1N-PL6	3	150 A	150 A	28948 W	
7	1N-PL7	3	150 A	150 A	26050 W	
8	1N-PL8	3	150 A	150 A	60180 W	
9	1N-PL9	3	150 A	150 A	22860 W	
10	1N-PL10	3	150 A	150 A	26260 W	
11	1N-PL11	3	150 A	150 A	18549 W	
12	1N-PL12	3	150 A	150 A	35160 W	
13	1N-PL13	3	150 A	150 A	21640 W	
14	1N-PL14	3	150 A	150 A	25973 W	
15	Spare	3	225 A	225 A	0 W	
16	Spare	3	225 A	225 A	0 W	
17	Space	--	--	--	0 W	--
18	Space	--	--	--	0 W	--
19	Space	--	--	--	0 W	--
20	Space	--	--	--	0 W	--
21	Space	--	--	--	0 W	--
22	Space	--	--	--	0 W	--
23	Space	--	--	--	0 W	--
24	Space	--	--	--	0 W	--
25	Space	--	--	--	0 W	--
26	Space	--	--	--	0 W	--
				Total Conn. Load:	371034 W	
				Total Amps:	1030 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4646 W	105.06%	4881 W		
Power	3000 W	100.00%	3000 W	**Total Conn. Load:**	371034 W
Receptacle	363388 W	51.38%	186694 W	**Total Est. Demand:**	194575 W
				Total Conn. Current:	1030 A
				Total Est. Demand Current:	540 A

Notes:

Switchboard: 1N-DL2

Location: ELECTRICAL 192
Supply From: T-1RC
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: Copper
Mains Rating: 800 A
MCB Rating: 800 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	1N-PL21	3	150 A	150 A	35360 W	
2	1N-PL22	3	150 A	150 A	16696 W	
3	1N-PL23	3	150 A	150 A	20600 W	
4	1N-PL24	3	150 A	150 A	19703 W	
5	1N-PL25	3	150 A	150 A	29080 W	
6	1N-PL26	3	150 A	150 A	20260 W	
7	1N-PL27	3	150 A	150 A	21300 W	
8	Space	--	--	--	0 W	--
9	1N-PL29	3	150 A	150 A	26560 W	
10	Spare	1	--	150 A	0 W	
11	Spare	1	--	150 A	0 W	
12	Space	--	--	--	0 W	--
13	Space	--	--	--	0 W	--
14	Space	--	--	--	0 W	--
15	Space	--	--	--	0 W	--
16	Space	--	--	--	0 W	--
				Total Conn. Load:	189559 W	
				Total Amps:	526 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2303 W	110.99%	2556 W		
Receptacle	187256 W	52.67%	98628 W	**Total Conn. Load:**	189559 W
				Total Est. Demand:	101184 W
				Total Conn. Current:	526 A
				Total Est. Demand Current:	281 A

Notes:

Distribution: 1N-DL3

Location: MAIN ELECTRICAL 186
Supply From: T-1RB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Mains Type: Copper
Mains Rating: 400 A
MCB Rating: 400 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	1N-PL41	3	100 A	100 A	27520 W	
2	1N-PL42	3	100 A	100 A	19760 W	
3	1N-PL43	3	100 A	100 A	13740 W	
4	1N-PL44	3	100 A	100 A	19040 W	
5	1N-PL45	3	100 A	100 A	20740 W	
6	Spare	3	100 A	100 A	0 W	
7	Spare	3	100 A	100 A	0 W	
8	Space	--	--	--	0 W	--
9	Space	--	--	--	0 W	--
10	Space	--	--	--	0 W	--
				Total Conn. Load:	100800 W	
				Total Amps:	280 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Power	15720 W	100.00%	15720 W		
Receptacle	85080 W	55.88%	47540 W	**Total Conn. Load:**	100800 W
				Total Est. Demand:	63260 W
				Total Conn. Current:	280 A
				Total Est. Demand Current:	176 A

Notes:

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	ISSUED FOR CONSTRUCTION			07/03/12

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 E7.0.0	FACILITY NO(S)
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CHECKED BRB	CAD NO:	
PROJECT MANAGER ANL - JESSE ADAMS DATE - 04/26/11	DWG STATE	
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