SWITCHGEAR: SWGR-A, BUS-A

Location: ELECTRICAL ROOM 112 | **Volts:** 480V | **A.I.C. Rating:** 65 kA
Supply From: CB-A | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 3 | **Mains Rating:** 2500 A
Enclosure: NEMA 1 | **MCB Rating:** 2500 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	SWITCHBOARD "SWBD-B"	3	1360 kVA	1636 A	
2	SPACE (1600A)	3	--	--	
3	SPACE (1600A)	3	--	--	
4	CHILLER-2	3	517 kVA	621 A	
5	SPARE	3	0 kVA	--	
6	SPARE	3	0 kVA	--	
7	SPD	3	0 kVA	--	
			1876 kVA	2256 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	941178 VA	85.00%	800002 VA		
Lighting	15173 VA	90.00%	13655 VA	**Total Conn. Load:**	1875943 VA
Receptacle	8100 VA	100.00%	8100 VA	**Total Est. Demand:**	1558302 VA
Equipment Chargers	13286 VA	70.00%	9300 VA	**Total Conn. Current:**	2256 A
Facility - Equipment	19829 VA	90.00%	17846 VA	**Total Est. Demand Current:**	1874 A
Process - Oven	267389 VA	80.00%	213911 VA		
Process - Equipment	373874 VA	85.00%	317793 VA		
Facility - Motor	13188 VA	75.00%	9891 VA		
Process - Motor	225689 VA	75.00%	169267 VA		

Notes:

SWITCHGEAR: SWGR A, BUS-B

Location: ELECTRICAL ROOM 112 | **Volts:** 480V | **A.I.C. Rating:** 65 kA
Supply From: CB-B | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 3 | **Mains Rating:** 2500 A
Enclosure: NEMA 1 | **MCB Rating:** 2500 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	SWITCHBOARD "SWBD-C"	3	889 kVA	1070 A	
2	SPACE (1600A)	3	--	--	
3	SPACE (1600A)	3	--	--	
4	DISTRIBUTION BOARD "DH1A-A"	3	268 kVA	323 A	
5	CHILLER-1	3	517 kVA	621 A	
6	CHILLER-3	3	517 kVA	621 A	
7	SPD	3	0 kVA	--	
			2186 kVA	2630 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	1404446 VA	85.00%	1193779 VA		
Lighting	39712 VA	90.00%	35741 VA	**Total Conn. Load:**	2186243 VA
Receptacle	68594 VA	57.29%	39297 VA	**Total Est. Demand:**	1807038 VA
Equipment Chargers	144074 VA	70.00%	100852 VA	**Total Conn. Current:**	2630 A
Facility - Equipment	92110 VA	90.00%	82899 VA	**Total Est. Demand Current:**	2174 A
Process - Oven	85151 VA	80.00%	68120 VA		
Process - Equipment	230915 VA	85.00%	196278 VA		
Facility - Motor	100935 VA	75.00%	75702 VA		
Process - Motor	27057 VA	75.00%	20293 VA		

Notes:

PANELBOARD: DHA-A

Location: ELECTRICAL ROOM 112 | **Volts:** 480V | **A.I.C. Rating:** 42 kA
Supply From: SWGR A, BUS-B | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 3 | **Mains Rating:** 600 A
Enclosure: NEMA 1 | **MCB Rating:** 600 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	SPACE (400A)	3	--	--	
2	ATS-UPS-A	3	116 kVA	139 A	
3	SPACE (250A)	3	--	--	
4	ATS-EH1A-D	3	39 kVA	47 A	
5	PANEL H1A-S	3	8 kVA	9 A	
6	PANEL L1A-A	3	2 kVA	2 A	
7	PANEL L1B-A	3	34 kVA	41 A	
8	ATS-ETR1A-A	3	14 kVA	16 A	
9	PANEL H1A-A	3	59 kVA	71 A	
10	SPACE (150A)	3	--	--	
11	SPACE (150A)	3	--	--	
			268 kVA	323 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	80800 VA	85.00%	68680 VA		
Lighting	16789 VA	90.00%	15110 VA	**Total Conn. Load:**	268145 VA
Receptacle	44588 VA	61.21%	27294 VA	**Total Est. Demand:**	220297 VA
Facility - Equipment	89685 VA	90.00%	80716 VA	**Total Conn. Current:**	323 A
Process - Equipment	18720 VA	85.00%	15912 VA	**Total Est. Demand Current:**	265 A
Facility - Motor	22620 VA	75.00%	16965 VA		

Notes:

SWITCHBOARD: SWBD-B

Location: ELECTRICAL ROOM 120 | **Volts:** 480V | **A.I.C. Rating:** 42 kA
Supply From: SWGR-A, BUS-A | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 3 | **Mains Rating:** 1600 A
Enclosure: NEMA 1 | **MCB Rating:** 1600 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	PANEL H1B-B	3	587 kVA	706 A	
2	ATS-EH1B-B	3	344 kVA	414 A	
3	PANEL H1A-B	3	376 kVA	452 A	
4	SPACE (250A)	3	--	--	
5	SPACE (250A)	3	--	--	
6	PANEL L1C-B	3	15 kVA	19 A	
7	PANEL L1A-B	3	24 kVA	29 A	
8	ATS-EH1A-B	3	20 kVA	24 A	
9	SPACE (250A)	3	--	--	
10	SPACE (150A)	3	--	--	
			1360 kVA	1636 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	428945 VA	85.00%	364603 VA		
Lighting	15173 VA	90.00%	13655 VA	**Total Conn. Load:**	1360107 VA
Receptacle	8100 VA	100.00%	8100 VA	**Total Est. Demand:**	1119873 VA
Equipment Chargers	13286 VA	70.00%	9300 VA	**Total Conn. Current:**	1636 A
Facility - Equipment	19829 VA	90.00%	17846 VA	**Total Est. Demand Current:**	1347 A
Process - Oven	267389 VA	80.00%	213911 VA		
Process - Equipment	373874 VA	85.00%	317793 VA		
Facility - Motor	13188 VA	75.00%	9891 VA		
Process - Motor	225689 VA	75.00%	169267 VA		

Notes:

SWITCHBOARD: SWBD-C

Location: ELECTRICAL ROOM 131 | **Volts:** 480V | **A.I.C. Rating:** 42 kA
Supply From: SWGR A, BUS-B | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 3 | **Mains Rating:** 1200 A
Enclosure: NEMA 1 | **MCB Rating:** 1200 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	PANEL H1A-C	3	361 kVA	434 A	
2	PANEL H1B-C	3	368 kVA	443 A	
3	SPACE (250A)	3	--	--	
4	SPACE (250A)	3	--	--	
5	ATS-EH1A-C	3	72 kVA	87 A	
6	PANEL L1C-C	3	23 kVA	28 A	
7	PANEL L1A-C	3	55 kVA	67 A	
8	ATS-EH1B-C	3	18 kVA	22 A	
9	SPACE (150A)	3	--	--	
10	SPACE (150A)	3	--	--	
			889 kVA	1070 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	304430 VA	85.00%	258765 VA		
Lighting	22924 VA	90.00%	20631 VA	**Total Conn. Load:**	889284 VA
Receptacle	24011 VA	70.82%	17006 VA	**Total Est. Demand:**	717615 VA
Equipment Chargers	144074 VA	70.00%	100852 VA	**Total Conn. Current:**	1070 A
Facility - Equipment	2650 VA	90.00%	2385 VA	**Total Est. Demand Current:**	863 A
Process - Oven	85151 VA	80.00%	68120 VA		
Process - Equipment	212195 VA	85.00%	180366 VA		
Facility - Motor	78316 VA	75.00%	58737 VA		
Process - Motor	27057 VA	75.00%	20293 VA		

Notes:

SWITCHBOARD: ESWBD-S

Location: GENERATOR YARD | **Volts:** 480V | **A.I.C. Rating:** 42 kA
Supply From: GENSET-A | **Phases:** 3 | **Mains Type:** MCB
Mounting: FLOOR | **Wires:** 3 | **Mains Rating:** 800 A
Enclosure: NEMA 3R | **MCB Rating:** 800 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	ATS-EH1B-B	3	344 kVA	414 A	
2	SPACE (400A)	3	--	--	
3	SPACE (250A)	3	--	--	
4	ATS-UPS-A	3	116 kVA	139 A	
5	ATS-EH1B-C	3	18 kVA	22 A	
6	ATS-EH1A-B	3	20 kVA	24 A	
7	ATS-EH1A-C	3	72 kVA	87 A	
8	ATS-EH1A-D	3	39 kVA	47 A	
9	ATS-ETR1A-A	3	14 kVA	16 A	
10	SPACE (150A)	3	--	--	
			618 kVA	744 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Facility - HVAC	61976 VA	85.00%	52679 VA		
Lighting	13389 VA	90.00%	12050 VA	**Total Conn. Load:**	618181 VA
Receptacle	12960 VA	88.58%	11480 VA	**Total Est. Demand:**	510726 VA
Facility - Equipment	91633 VA	90.00%	82470 VA	**Total Conn. Current:**	744 A
Process - Oven	352539 VA	80.00%	282032 VA	**Total Est. Demand Current:**	614 A
Process - Equipment	66468 VA	85.00%	56498 VA		
Facility - Motor	25762 VA	75.00%	19322 VA		

Notes:

PANELBOARD: UDLA-A

Location: ELECTRICAL ROOM 112 | **Volts:** 208Y/120V | **A.I.C. Rating:** 35 kA
Supply From: UPS-A | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 600 A
Enclosure: NEMA 1 | **MCB Rating:** 450 A

Notes:

CKT	Circuit Description	# of Poles	Connected Load	Connected Current	Remarks
1	PANEL UL2T-A	3	34 kVA	96 A	
2	PANEL UL1T-B	3	27 kVA	76 A	
3	PANEL UL1T-C	3	27 kVA	76 A	
4	PANEL UL1A-A	3	10 kVA	27 A	
5	PANEL UL1A-B	3	16 kVA	44 A	
6	PANEL UL1A-C	3	3 kVA	8 A	
7	SPACE (150A)	3	--	--	
8	SPACE (150A)	3	--	--	
			116 kVA	321 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	10800 VA	96.30%	10400 VA		
Facility - Equipment	88126 VA	90.00%	79314 VA	**Total Conn. Load:**	115630 VA
Process - Equipment	18720 VA	85.00%	15912 VA	**Total Est. Demand:**	103824 VA
				Total Conn. Current:	321 A
				Total Est. Demand Current:	288 A

Notes:

NABHOLZ

ARKANSAS REGISTERED PROFESSIONAL ENGINEER No.12803
09-18-2024

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0	09/18/2024	100% ISSUED FOR CONSTRUCTION - EXPANSION	DR	CJA						

DSGN

GMLRS
Camden OSD
Calhoun County, Arkansas
Aerojet Rocketdyne

ELECTRICAL
PANEL SCHEDULE

SHEET NO
E-610

SCALE
DATE 09/18/2024
PROJ D3754502
DWG CMDN-OSD_GMLRS_E-610

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