NEXT ASS'Y | FINAL ASS'Y

PANEL B1L2A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL B1L2A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	B1-1-3,5	640			1680			B1-2-37,38	1	20A	2
3	20A	1	Spare							Spare	1	20A	4
5	20A	1	B1-1-3			320			1360	B1-2-29,30,37,38	1	20A	6
7	20A	1	B1-1-2,4	1120			400			B1-2-24	1	20A	8
9	20A	1	B1-1-9,10		80			1400		B1-2-25,31,32,35,36	1	20A	10
11	20A	1	Spare						1700	SE Outdr LTG.-LCP-B1-61	1	20A	12
13	20A	1	SW Outdr LTG.-LCP-B1-61	1700						Spare	1	20A	14
15	20A	1	SW Outdr LTG.-LCP-B1-61		1700			200		B1-2-34	1	20A	16
17	20A	1	B1-1-3			750				Spare	1	20A	18
19	20A	1	Spare							Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	Spare							Spare	1	20A	24
25	20A	1	Spare							Spare	1	20A	26
27	20A	1	Spare							Spare	1	20A	28
29	20A	1	Spare							Spare	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	3460	1780	1070
PHASE TOTALS COL. #2	2080	1600	3060
PHASE TOTAL VA	5540	3380	4130

TOTAL 3 PHASE CONNECTED 8.1 KVA 9.7 AMPS

file panelsch_79_2b

PANEL 4L2A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL 4L2A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Offices 4-1-4,6,7,8	2560			2120			Offices, Library 4-2-107 thru 112	1	20A	2
3	20A	1	Offices 4-1-3,5,9 thru 21		2720			1960		Rooms 4-2-95 thru 105	1	20A	4
5	20A	1	Offices 4-1-22 thru 39			2880			2320	Rooms 4-2-85 thru 91,93,94	1	20A	6
7	20A	1	Rooms 4-1-41,42,44 thru 53	1960			1920			Offices, 4-2-72 thru 80,82,83,84	1	20A	8
9	20A	1	Offices 4-1-54 thru 68		2400			2880		Corridor 4-2-71,81	1	20A	10
11	20A	1	Corridor 4-1-2			2120				Spare	1	20A	12
13	20A	1	Corridor 4-1-43	1760						Spare	1	20A	14
15	20A	1	Spare							Spare	1	20A	16
17	20A	1	Spare							Spare	1	20A	18
19	20A	1	Space							Space	1	20A	20
21	20A	1	Space							Space	1	20A	22
23	20A	1	Space							Space	1	20A	24
25	20A	1	Space							Space	1	20A	26
27	20A	1	Space							Space	1	20A	28
29	20A	1	Space							Space	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	6280	5120	5000
PHASE TOTALS COL. #2	4040	4840	2320
PHASE TOTAL VA	10320	9960	7320

TOTAL 3 PHASE CONNECTED 27.4 KVA 33.0 AMPS

file panelsch_90_2b

PANEL 5L2A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL 5L2A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Corridor 5-1-9	1360			1520			Mech Rm. 5-1-14	1	20A	2
3	20A	1	Spare					1200		Mech Rm.,Mach. Rm. 5-2-20,21	1	20A	4
5	20A	1	Rooms 5-1-10, 11,11a, 6-1-2			1480			2080	Mech. Rms. 5-2-23,24	1	20A	6
7	20A	1	Exterior Lighting	1630			720			Corridor 5-2-19	1	20A	8
9	20A	1	Soffit Lighting-Exterior Deck		1540					Spare	1	20A	10
11	20A	1	Spare							Spare	1	20A	12
13	20A	1	Spare							Spare	1	20A	14
15	20A	1	Spare							Spare	1	20A	16
17	20A	1	Spare							Spare	1	20A	18

	A	B	C
PHASE TOTALS COL. #1	2990	1540	1480
PHASE TOTALS COL. #2	2240	1200	2080
PHASE TOTAL VA	5230	2740	4120

TOTAL 3 PHASE CONNECTED 12.1 KVA 14.5 AMPS

file panelsch_92_2b

PANEL B2L5A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL B2L5A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100A A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	B2-2-1	960			560			B2-2-2,B2-2-5,B2-2-6	1	20A	2
3	20A	1	B2-2-1		800			640		B2-2-3,B2-2-9	1	20A	4
5	20A	1	B2-2-4			640			720	B2-2-8	1	20A	6
7	20A	1	Spare				290			Ext. Door LTG. Via LCP-B2-62	1	20A	8
9	20A	1	B2-2-10		240			560		B2-2-11	1	20A	10
11	20A	1	B2-2-7,B2-2-10			160				Spare	1	20A	12
13	20A	1	Spare							Spare	1	20A	14
15	20A	1	Spare							Spare	1	20A	16
17	20A	1	Spare							Spare	1	20A	18

	A	B	C
PHASE TOTALS COL. #1	960	1040	800
PHASE TOTALS COL. #2	850	1200	720
PHASE TOTAL VA	1810	2240	1520

TOTAL 3 PHASE CONNECTED 5.6 KVA 6.7 AMPS

file panelsch_78_2b

PANEL B1L3A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL B1L3A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480/
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	B1-3-48	2100			2100			B1-3-48	1	20A	2
3	20A	1	B1-3-43		1800			2100		B1-3-48	1	20A	4
5	20A	1	B1-3-43			1600			2100	B1-3-48	1	20A	6
7	20A	1	B1-3-47,49	1600			2100			B1-3-52	1	20A	8
9	20A	1	B1-3-50		480			2100		B1-3-52	1	20A	10
11	20A	1	B1-3-52			880			880	B1-3-46	1	20A	12
13	20A	1	B1-3-56	1800						Spare	1	20A	14
15	20A	1	B1-3-56		1800			880		B1-3-46	1	20A	16
17	20A	1	B1-3-65,66,67,68,69,70,71,72			1280			2480	B1-3-39,53,64	1	20A	18
19	20A	1	Spare							Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	B1-3-55,58,59,61,62			640				Spare	1	20A	24
25	20A	1	Spare							Spare	1	20A	26
27	20A	1	Spare							Spare	1	20A	28
29	20A	1	Spare						300	BIL3B, B1L3C - CONTACTOR COIL	1	30A	30

	A	B	C
PHASE TOTALS COL. #1	5500	4080	4400
PHASE TOTALS COL. #2	4200	5080	5760
PHASE TOTAL VA	9700	9160	1016

TOTAL 3 PHASE CONNECTED 28.7 KVA 34.5 AMPS

file panelsch_80_2b

PANEL 1L3A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [ ] - WITH GRD. BAR PANEL 1L3A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Corridor 1-2-39,61	2000			2080			1-3-101,108	1		2
3	20A	1	1-2-49 to 54,56,58		1920			1280		1-3-109 to 112	1		4
5	20A	1	1-2-36 to 38,41,44,46 to 48,55,57			2080			520	Corridor 1-3-116,117	1		6
7	20A	1	1-2-34,40,45,59,62,63	1160						Spare	1		8
9	20A	1	1-2-32		1600			1600		1-3-96,85	1		10
11	20A	1	1-2-31			1560			1440	1-3-96	1		12
13	20A	1	1-1-26	1560			1800			workstation 1-3-98,100,02 to 06	1		14
15	20A	1	1-2-30		2180			1280		1-3-92,93,94,97 to 99	1		16
17	20A	1	Spare							Spare	1		18
19	20A	1	Spare							Spare	1		20
21	20A	1	Spare							Spare	1		22
23	20A	1	1-3-91			800				Spare	1		24
25	20A	1	Spare							Spare	1		26
27	20A	1	Spare							Spare	1		28
29	20A	1	Spare							Spare	1		30

	A	B	C
PHASE TOTALS COL. #1	4720	5700	4440
PHASE TOTALS COL. #2	3880	4160	1960
PHASE TOTAL VA	8600	9160	6400

TOTAL 3 PHASE CONNECTED 24.2 KVA 29.1 AMPS

file panelsch_81_2b

PANEL 2L3A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL 2L3A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA AIC VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Corridors 2-2-39,72	2720						Spare	1	20A	2
3	20A	1	2-2-28 to 36,38,40,73 to 76		2400			160		2-3-122,123	1	20A	4
5	20A	1	2-2-37,41 to 44,46 to 48,71			2160				Spare	1	20A	6
7	20A	1	2-2-49 to 55,63,65,67,69,70	2280			480			Corridors 2-3-121,126	1	20A	8
9	20A	1	2-2-56 to 62,64,66		1920			2000		2-3-108,109	1	20A	10
11	20A	1	Spare						1640	2-3-108, Worksta.,2-3-119	1	20A	12
13	20A	1	Spare				1040			Corridor 2-3-107	1	20A	14
15	20A	1	Spare							Spare	1	20A	16
17	20A	1	Spare							Spare	1	20A	18
19	20A	1	Spare							Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	Spare							Spare	1	20A	24
25	20A	1	Spare							Spare	1	20A	26
27	20A	1	Spare							Spare	1	20A	28
29	20A	1	Spare							Spare	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	5000	4320	2160
PHASE TOTALS COL. #2	1520	2160	1640
PHASE TOTAL VA	6520	6480	3800

TOTAL 3 PHASE CONNECTED 16.8 KVA 20.2 AMPS

file panelsch_82_2b

PANEL 3L3A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL 3L3A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Offices 3-2-53 thru 65	2560						Spare	1	20A	2
3	20A	1	3-2-41,42,44 thru 52,66,68,69,70		2600					Spare	1	20A	4
5	20A	1	3-2-34 thru 37,39,40,72			2400			200	Corridor 3-3-81	1	20A	6
7	20A	1	3-2-27,29 thru 33,73,74	2240			2000			3-3-91,108,109,116	1	20A	8
9	20A	1	3-2-38,71, Corridor		2760					Spare	1	20A	10
11	20A	1	1-2-30 Atrium Lighting			1700			640	Corridors 3-3-97,110,113	1	20A	12
13	20A	1	Spare				300			Workstation, 3-3-118,119	1	20A	14
15	20A	1	Spare							Spare	1	20A	16
17	20A	1	Spare							Spare	1	20A	18
19	20A	1	Spare							Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	Spare							Spare	1	20A	24
25	20A	1	Spare							Spare	1	20A	26
27	20A	1	Spare							Spare	1	20A	28
29	20A	1	Spare							Spare	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	4800	5360	4110
PHASE TOTALS COL. #2	2300	0	840
PHASE TOTAL VA	6100	5360	4950

TOTAL 3 PHASE CONNECTED 16.4 KVA 20 AMPS

file panelsch_84_2b

PANEL 1L6A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [X] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR PANEL 1L6A MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
[X] Power Monitor 100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	NO. OF POLES	USED FOR	COL. #1 VOLT - AMPS A	B	C	COL. #2 VOLT - AMPS A	B	C	USED FOR	NO. OF POLES	TRIP	CKT. NO.
1	20A	1	Corridor/Atrium 1-1-18,24	1600			1200			Cont. Staff Lab 1-3-72	1	20A	2
3	20A	1	1-1-17,19 to 23,25		1840			1120		1-3-73 to	1	20A	4
5	20A	1	Floor Lites 1-1-18			2330			440	Corridor 1-3-69	1	20A	6
7	20A	1	Soffit 1-1-15	1750			1120			Diag. Lab 1-3-80	1	20A	8
9	20A	1	1-1-10,12,15		230			1040		RF Lab 1-3-84,85,89	1	20A	10
11	20A	1	1-1-6, Stair No. 11			280			1680	RF Lab 1-3-84	1	20A	12
13	20A	1	Vest. & Can. Lites-LCP-1-63	600			1560			Workstations 1-3-71,77 to 79,98	1	20A	14
15	20A	1	Spare					1680		1-3-81 to 83,86,88,90,98	1	20A	16
17	20A	1	Corr. 1-3-91, 1-4-124,128			1440			2040	Oudoor Lighting - LCP-1-63	1	20A	18
19	20A	1	1-4-123,125 to 127	1840						Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	Spare							Spare	1	20A	24
25	20A	1	Spare							Spare	1	20A	26
27	20A	1	Spare							Spare	1	20A	28
29	20A	1	Spare							Spare	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	5790	2070	4690
PHASE TOTALS COL. #2	3880	3840	4160
PHASE TOTAL VA	9670	5910	8850

TOTAL 3 PHASE CONNECTED 24.4 KVA 29.4 AMPS

file panelsch_87_2b

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NUMBER OF SECTION OR DETAIL — DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN

SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 4
ENGINEERING PROCEDURE SNS-ENG-G001

REV	CHANGE TYPE	CHANGE CONTROL SYSTEM	CHANGE REQUEST NUMBER	DESCRIPTION	DSN	CHK	DEPT	DATE	PE	DATE	PJ	DATE	REQ	DATE	UTB	DATE	RPE	RPE NO	DATE
1				CERTIFIED FOR CONSTRUCTION - 12/20/01	TLW	KJS			CLG	12/01	JS	12/01			JRL	12/26/01	VGS	106009	12/20/01
0	–	–	–	CERTIFIED FOR CONSTRUCTION - 5/15/01	TLW	KJS			CLG	9/6/01	JS	8/21/01			JRL	9/25/01	VGS	106009	5/15/01

REVISION OR ISSUE PURPOSE | REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
RW	AW	BWJ	PD	BWJ	BWJ	--	BWJ	--	ED
SC	AW	WRS	RL	WRS	BWJ	--	WRS	--	WAS

SQUAD CHECK

RPE — VICTOR G. STEFFY, REGISTERED ENGINEER, AGRICULTURE COMMERCE, No. 00106009, STATE OF TENNESSEE — 12-17-01

REV. 1 DATE 12-17-01

DSN	T. WHITE	5/15/01
DRW	T. WHITE	5/15/01
CHK	K.SZOT	5/15/01
DEPT		
PE	C.L. GARREN	9/6/01
PJ	J. STELLERN	8/21/01
REQ		
UTB	J.R. LAWSON	9/25/01

DRAWING APPROVALS

108031400-E8E-8600-A159

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Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC05-00OR22725
UT-BATTELLE, LLC, Oak Ridge, Tennessee

PROJECT NAME:

SPALLATION NEUTRON SOURCE

CENTRAL LAB AND OFFICE BUILDING ELECTRICAL LIGHTING PANEL SCHEDULES

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8600		1	1	S	U

51	52	53	WBS		REV
NC	NA		1.8.3.14	E9.21.52	1

AutoCAD

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