PANEL 2L6A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | 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	2-1-5	1680			1920			2-3-82,83,89	1	20A	2
3	20A	1	2-1-15 to 18,22,23		2080			1920		2-3-87,92,93,95,96,98,99	1	20A	4
5	20A	1	2-1-7 to 14,19 to 21			1800			2560	2-3-85,90,91,92	1	20A	6
7	20A	1	Spare				1200			Corridor 2-3-84	1	20A	8
9	20A	1	Mechical Room 2-1-26, Catwalk		1000			1560		Workstation 2-3-108	1	20A	10
11	20A	1	Spare						1920	Workstation 2-3-108	1	20A	12
13	20A	1	2-4-137,138,140 to 146	1600			1240			Corridors 2-3-107,2-4-139	1	20A	14
15	20A	1	Spare					1200		Bridge 2-65	1	20A	16
17	20A	1	Spare						1120	Bridge 2-65	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	3280	3080	1800
PHASE TOTALS COL. #2	4360	4680	5660
PHASE TOTAL VA	7640	7760	7460

TOTAL 3 PHASE CONNECTED 22.9 KVA 27.5 AMPS

file panelsch_83_2b

PANEL 3L6A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [ ] - WITH GRD. BAR | 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	3-1-8 to 17	2240			1280			Labs 3-3-82 to 85	1	20A	2
3	20A	1	Corridor 3-1-5		1740			2560		3-3-90,92,93,95,96,98,99	1	20A	4
5	20A	1	Corridor 3-1-18			1440			2080	Mech. Rm. 3-3-91	1	20A	6
7	20A	1	1-1-18 Atrium	1700			1680			3-3-80	1	20A	8
9	20A	1	Outdoor Soffit Lighting		2550			1680		3-3-80	1	20A	10
11	20A	1	Outdoor Soffit Lighting			2720			1000	Corridor 3-4-131	1	20A	12
13	20A	1	Lobby 1-1-15	2200			120			Workstation	1	20A	14
15	20A	1	Ceiling 2-1-5		680			1120		Corridor 3-3-94,97	1	20A	16
17	20A	1	3-1-3,4,6,7			840				Spare	1	20A	18
19	20A	1	Spare							Spare	1	20A	20
21	20A	1	Spare							Spare	1	20A	22
23	20A	1	3-4-123 to 128			2080				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	6140	4970	7080
PHASE TOTALS COL. #2	3080	5360	3080
PHASE TOTAL VA	9220	10330	10160

TOTAL 3 PHASE CONNECTED 29.7 KVA 35.7 AMPS

file panelsch_85_2b

PANEL B1L1A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | 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	B1-4-81	2100			1800			B1-3-57	1	20A	2
3	20A	1	B1-4-81		2100			1200		Loading Dock Via LCP-B1-64	1	20A	4
5	20A	1	B1-4-81			1800			1080	B1-3-51,73,76	1	20A	6
7	20A	1	B1-1-78	1800						Spare	1	20A	8
9	20A	1	B1-4-77,78,82,83,84		1120					Spare	1	20A	10
11	20A	1	B1-3-45			2100				Spare	1	20A	12
13	20A	1	B1-3-48	2100						Spare	1	20A	14
15	20A	1	B1-3-48		2100					Spare	1	20A	16
17	20A	1	Ext. Door LTG. Via LCP-2			500				Spare	1	20A	18
19	20A	1	B1-3-42	1000						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						150	B1L1B - Contactor Coil	1	20A	30

	A	B	C
PHASE TOTALS COL. #1	7000	5320	4400
PHASE TOTALS COL. #2	1960	1200	3190
PHASE TOTAL VA	8960	6520	7590

TOTAL 3 PHASE CONNECTED 23.1 KVA 27.7 AMPS

file panelsch_86_2b

PANEL B1L3B

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | 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	Landscape Lighting - West	432			2064			Landscape Lighting - West	1	20A	2
3	20A	1	Landscape Lighting - West		432			810		Landscape Lighting - West	1	20A	4
5	20A	1	Landscape Lighting - West			1680			540	Landscape Lighting - West	1	20A	6
7	20A	1	Landscape Lighting - West	540			990			Landscape Lighting - West	1	20A	8
9	20A	1	Landscape Lighting - West		1080			1080		Landscape Lighting - West	1	20A	10
11	20A	1	Landscape Lighting - West			990			1260	Landscape Lighting - East	1	20A	12
13	20A	1	Landscape Lighting - South	900			1260			Landscape Lighting - East	1	20A	14
15	20A	1	Landscape Lighting - South		810			1710		Landscape Lighting - South	1	20A	16
17	20A	1	Landscape Lighting - South			390			1530	Landscape Lighting - South	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	–	1	Space				4000			East Parking Lot Lights	3	30A	26
27	–	1	Space					4000				30A	28
29	–	1	Space						4000			30A	30

	A	B	C
PHASE TOTALS COL. #1	1872	2322	3060
PHASE TOTALS COL. #2	8314	7600	7330
PHASE TOTAL VA	10186	9922	10390

TOTAL 3 PHASE CONNECTED 30.5 KVA 37 AMPS

file panelsch_102_2b

PROVIDE A 3 - POLE, 100 AMP MAIN BREAKER IN SERIES WITH A 3 - POLE 100 AMP CONTACTOR

FOR LIGHTING ON B1L3B SCHEDULE SEE BWSC DRAWINGS:
ROADWAY LIGHTING DRAWING:
ULT3.34.J5
LANDSCAPE LIGHTING DRAWINGS:
ULT0.35.01 ULT5.35.04
ULT0.35.02 ULT5.35.05
ULT5.35.01 ULT6.35.01
ULT5.35.02 ULT9.35.01
ULT5.35.03

PANEL B1E5A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [ ] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | 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	B2 Emergency lights	960			1980			1 - 61 & 62 Emergency Lites	1	20A	2
3	20A	1	B2 Exit Signs		50			1440		2 - 61 & 62 Emergency Lites	1	20A	4
5	20A	1	B1- 61 Emergency Lites			1600			160	1 - 61 & 62 Exit Signs	1	20A	6
7	20A	1	B1 - 61 Exit Signs	70			170			2 - 61 & 62 Exit Signs	1	20A	8
9	20A	1	B1 - 62 Emergency Lites		1040					Spare	1	20A	10
11	20A	1	B1 - 62 Exit Signs			30			1040	Stair No. 2	1	20A	12
13	20A	1	Stair No. 1	1680			1500			Emergency Lighting Auditorium	3	20A	14
15	20A	1	Spare					1500					16
17	20A	1	Spare						1500				18

	A	B	C
PHASE TOTALS COL. #1	2710	1090	1630
PHASE TOTALS COL. #2	3650	2940	2700
PHASE TOTAL VA	6360	4030	4330

TOTAL 3 PHASE CONNECTED 14.7 KVA 18 AMPS

file panelsch_94_2b

PANEL 3E5A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 25KA A.I.C. | VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] 480 /
Pwr Monitor [X] | 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	3 - 61 & 62 Emergency Lights	1640			1160			5 - 61 & 62 Emergency Lights	1	20A	2
3	20A	1	3 - 61 & 62 Exit Signs		400			600		5 - 61 & 62 Exit Signs	1	20A	4
5	20A	1	4 - 61 & 62 Emergency Lights			1440				Spare	1	20A	6
7	20A	1	4 - 61 & 62 Exit Signs	700						Spare	1	20A	8
9	20A	1	Spare							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	2340	400	1440
PHASE TOTALS COL. #2	1160	600	0
PHASE TOTAL VA	3500	1000	1440

TOTAL 3 PHASE CONNECTED 5.9 KVA 7.1 AMPS

file panelsch_101_2b

PANEL 1E3A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR | 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	3 - 63 Emergency Lights	1200						Spare	1	20A	2
3	20A	1	3 - 63 Exit Signs		140			1600		B1 - 63-East Emergency Lights	1	20A	4
5	20A	1	2 - 63 Emergency Lights			800			1300	B1 - 63-West Emergency Lights	1	20A	6
7	20A	1	2 - 63 Exit Signs	100			90			B1 - 63 Exit Signs	1	20A	8
9	20A	1	Spare					1440		1 - 63 Emergency Lights	1	20A	10
11	20A	1	Spare						190	1 - 63 Exit Signs	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	1300	140	800
PHASE TOTALS COL. #2	90	3040	1490
PHASE TOTAL VA	1390	3180	2290

TOTAL 3 PHASE CONNECTED 6.9 KVA 8 AMPS

file panelsch_97_2b

PANEL 1E1A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [ ] -MAIN BKR. | [X] - LTG. [ ] - RECEPT. [ ] -POWER NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [ ] - WITH GRD. BAR | MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: ____ 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	3 - 63-North,64 Emergency Lts.	640			720			Stair No. 3	1	20A	2
3	20A	1	3 - 63-North,64 Exit Signs		800			720		Stair No. 4	1	20A	4
5	20A	1	B1-63-North,64 Exit Signs			450				Spare	1	20A	6
7	20A	1	B1-63-North,64 Emergency Lts.	2640			1040			1-63-North,64 Emergency Lts.	1	20A	8
9	20A	1	2 - 63-North,64,65 Emerg Lts.		800			70		1-63-North,64 Exit Signs	1	20A	10
11	20A	1	2 - 63-North,64,65 Exit Signs			800				Spare	1	20A	12
13	20A	1	Spare				1500			Control Rm Emergency Lighting	3	20A	14
15	20A	1	Spare					1500					16
17	20A	1	Spare						1500				18

	A	B	C
PHASE TOTALS COL. #1	3280	1600	1250
PHASE TOTALS COL. #2	3260	2290	1500
PHASE TOTAL VA	6540	3890	2750

TOTAL 3 PHASE CONNECTED 13.2 KVA 15.9 AMPS

file panelsch_95_2b

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SECTION AND DETAIL KEY: NUMBER OF SECTION OR DETAIL / DRAWING ON WHICH SECTION OR DETAIL IS SHOWN OR TAKEN

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
0				CERTIFIED FOR CONSTRUCTION - 12/20/01	TLW	KJS				12/9		12/01				12/26/01	VGS	106009	12/20/01

REVISION OR ISSUE PURPOSE — REVISION APPROVALS

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
RW	AW	BWJ	PD	BWJ	BWJ	--	BWJ	--	ED

SQUAD CHECK

RPE: VICTOR G. STEFFEN, REGISTERED ENGINEER, No. 00106009, STATE OF TENNESSEE, 12-17-01

REV. 0 DATE 12-17-01 — DRAWING APPROVALS

DSN	T. WHITE	12/20/01
DRW	T. WHITE	12/20/01
CHK	K.SZOT	12/20/01
DEPT		
PE		12/27/01
PJ		12/21/01
REQ		
UTB		12/26/01

108031400-E8E-8600-A190

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UT-BATTELLE, LLC, Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

CENTRAL LAB AND OFFICE BUILDING
ELECTRICAL LIGHTING
PANEL SCHEDULES - ALTERNATE #1A,1B,1C,1D

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	E9.21.53.A1	0

Date: 12/12/2001 Time: 11:17:29
Username: WHITETL
CHI-F_VOL2:PROJECTS\7000\700_CADD\TASK_2B\740_PLOT\E9-21-53-A1.DWG