PANEL 2L6A

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [X] – LTG. [ ] – RECEPT. [ ] –POWER NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR PANEL 2L6A 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						Spare	1	20A	2
3	20A	1	2–1–15 to 18,22,23		2080			320		2–3–86 to 88	1	20A	4
5	20A	1	2–1–7 to 14,19 to 21			1800				Spare	1	20A	6
7	20A	1	Spare				800			Corridors 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	2040	3080	3040
PHASE TOTAL VA	5320	6160	4840

TOTAL 3 PHASE CONNECTED 16.3 KVA 19.6 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 PANEL 3L6A 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						Spare	1	20A	2
3	20A	1	Corridor 3–1–5		1740			400		3–3–88 to 90	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						Spare	1	20A	8
9	20A	1	Outdoor Soffit Lighting		2550					Spare	1	20A	10
11	20A	1	Outdoor Soffit Lighting			2720			160	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			400		Corridor 3–3–86	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	3–4–129,130			160				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 PANEL B1L1A 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			160			B1–3–76	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 PANEL B1L3B 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 PANEL B1E5A 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	Future Kitchen, Locker Areas		2000			1500					16
17	20A	1	Fut.Gallery, Aud. Areas B1,1,2			2640			1500				18

	A	B	C
PHASE TOTALS COL. #1	2710	3090	4270
PHASE TOTALS COL. #2	3650	2940	2700
PHASE TOTAL VA	6360	6030	6970

TOTAL 3 PHASE CONNECTED 19.4 KVA 23 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 PANEL 3E5A 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			920			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						1120	Future Conference Area 5–61	1	20A	18

	A	B	C
PHASE TOTALS COL. #1	1710	90	1600
PHASE TOTALS COL. #2	920	110	1120
PHASE TOTAL VA	2630	200	2920

TOTAL 3 PHASE CONNECTED 5.8 KVA 6.9 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 PANEL 1E3A 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	640						Spare	1	20A	2
3	20A	1	3 – 63 Exit Signs		120			1600		B1 – 63–East Emergency Lights	1	20A	4
5	20A	1	2 – 63 Emergency Lights			320			1300	B1 – 63–West Emergency Lights	1	20A	6
7	20A	1	2 – 63 Exit Signs	80			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	Future Labs 3–63	2640						Spare	1	20A	14
15	20A	1	Future Labs 2–63		1840					Spare	1	20A	16
17	20A	1	Future Labs 2–63			2000				Spare	1	20A	18

	A	B	C
PHASE TOTALS COL. #1	3360	1960	2320
PHASE TOTALS COL. #2	90	4640	4130
PHASE TOTAL VA	3450	6600	6450

TOTAL 3 PHASE CONNECTED 16.5 KVA 19.8 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 PANEL 1E1A 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.	480			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.	2480			640			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	Future Office Area 3–63N, 3–64			2480			1500				18

	A	B	C
PHASE TOTALS COL. #1	3280	1600	3730
PHASE TOTALS COL. #2	3260	2290	1500
PHASE TOTAL VA	6540	3890	5230

TOTAL 3 PHASE CONNECTED 15.7 KVA 18.8 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
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

SQUAD CHECK: SC – ST; AW – CV; WRS – EC; RL – EE; WRS – EM; BWJ – IE; –– – M; WRS – PD; –– – SE; WAS – AR

DRAWING APPROVALS:
RPE (seal: VICTOR G. STEFFEY, REGISTERED ENGINEER, AGRICULTURE, COMMERCE, No. 00106009, STATE OF TENNESSEE, 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
REV. 1 DATE 12-17-01

108031400-E8E-8600-A160

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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	E9.21.53	1

AutoCAD

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