GENERAL NOTES:

1. FOR SINGLE LINE DIAGRAM SEE DWGS E2.10.30, E2.10.31 & E2.10.32.

SWITCH BOARD TA-1SG1

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — SWITCH BOARD TA-1SG1 — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 3000 A 5,000 A.I.C. — MEZZ LVL (NORTH) — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON AND REF SINGLE DIAGRAM FOR MAIN BKR — 3000 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP-G.F.P.

CKT. NO.	TRIP AMP	USED FOR	COL. #1 VOLT - AMPS	COL. #2 VOLT - AMPS	USED FOR	TRIP AMP	CKT. NO.
1	800	TA-1DP1	508992	195000	TA-1DP5	400	2
3	400	TA-1DP6	195000	636240	TA-1DP2	800	4
5	600	TA-1DP3	143040	113040	TA-1DP4	400	6
7	400	TA-1DP7	180000	–	SPARE	600	8
9	–	SPACE	–	–	SPACE	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1: 1027032
PHASE TOTALS COL. #2: 944280
PHASE TOTAL VA: 1971312
TOTAL CONNECTED 1971 KVA 2371 AMPS

SWITCH BOARD TA-2SG1(FUTURE)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — SWITCH BOARD TA-2SG1(FUTURE) — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 3000 A 65,000 A.I.C. — MEZZ LVL (SOUTH) — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON AND REF TO SINGLE DIAGRAM FOR MAIN BKR — 2500 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP-G.F.P.

CKT. NO.	TRIP AMP	USED FOR	COL. #1 VOLT - AMPS	COL. #2 VOLT - AMPS	USED FOR	TRIP AMP	CKT. NO.
1	800	TA-2DP1(FUTURE)	464160	180000	TA-2DP5(FUTURE)	400	2
3	400	TA-2DP6(FUTURE)	180000	371328	TA-2DP2(FUTURE)	800	4
5	600	TA-2DP3(FUTURE)	94200	75360	TA-2DP4(FUTURE)	400	6
7	400	TA-2DP7(FUTURE)	180000	–	SPARE	600	8
9	–	SPACE	–	–	SPACE	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1: 918360
PHASE TOTALS COL. #2: 626688
PHASE TOTAL VA: 1545048
TOTAL CONNECTED 1545 KVA 1858 AMPS

SWITCH BOARD TA-3SG1

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [ ] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — SWITCH BOARD TA-3SG1 — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 3000 A 65,000 A.I.C. — INST LVL SOUTH — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 3000 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP-G.F.P.

CKT. NO.	TRIP AMP	USED FOR	COL. #1 VOLT - AMPS	COL. #2 VOLT - AMPS	USED FOR	TRIP AMP	CKT. NO.
1	800	TA-3DP4	412880	915422	TA-3DP3	800	2
3	400	TA-3DP2	353250	257118	TA-3DP1	400	4
5	225	TA-3MCC7	24745.9	102554	TA-3MCC2	400	6
7	400	TA-3ATS1-400A 480V,4 POLE FEED-TA-3EDP1	158819	95828	TA-3MCC1	225	8
9	600	TA-3MCC3	433220	372019	TA-3MCC4	600	10
11	225	TA-3MCC5	122069	–	SPARE	400	12
13	400	TA-3MCC8	61283.5	–	SPARE	400	14
15	–	SPACE	–	–	SPACE	–	16
17	–	SPACE	–	–	SPACE	–	18

PHASE TOTALS COL. #1: 1566266.92
PHASE TOTALS COL. #2: 1742942.04
PHASE TOTAL VA: 3309208.96
TOTAL CONNECTED 3309 KVA 3980 AMPS

PANEL TA-3PP2A (BASEMENT)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - LTG. [X] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — PANEL TA-3PP2A (BASEMENT) — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 225 A 22,000 A.I.C. — VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] /
225 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	TgT-CTL:CAB8500A	500			500			TgT-CTL:CAB8500	1	20	2
3	20	1	HOT WATER REC.PP		1000			500		TgT-CTL:CAB8600	1	20	4
5	20	1	TgT-CTL CAB8920A			500			500	TgT-CTL:CAB8920B	1	20	6
7	20	1	CAB #7 (TA-B112)	500			500			CAB #8 (TA-B112)	1	20	8
9	20	1	CAB #9 (TA-B112)		500			500		CAB #10 (TA-B112)	1	20	10
11	20	1	CAB #11 (TA-B112)			500			500	CAB #12 (TA-B112)	1	20	12
13	20	1	CAB #13 (TA-B112)	500						SPARE	1	20	14
15	20	1	TGT_CTL:OP8601		1500			500		Electric WTR REC.PP-P-1A-14	1	20	16
17	20	1	TGT_CTL:OP8602			1500			500	OP11(TA-B112)	1	20	18
19	20	1	SPARE				500			OP12(TA-B112)	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25	20	1	TgT-ICS:8110CAB01(TA-B112)	500			500			TgT-ICS:8110CAB02(TA-B112)	1	20	26
27	20	1	SPARE							SPARE	1	20	28
29	20	1	SPARE							SPARE	1	20	30
31			SINGLE REC TWISTLOCK	3000			3000			SINGLE REC. TWISTLOCK			32
33	30	3	208V,30A,3Ph		3000			3000		208V,30A,3Ph	3	30	34
35			FORKLIT CHARGING			3000			3000	FORKLIT CHARGING			36
37							3000			SINGLE REC. TWISTLOCK			38
39	30	3	SPARE					3000		208V,30A,3Ph	3	30	40
41									3000	FORKLIT CHARGING			42

	A	B	C
PHASE TOTALS COL. #1	5000	6000	5500
PHASE TOTALS COL. #2	8000	7500	7500
PHASE TOTAL VA	13000	13500	13000

TOTAL 3 PHASE CONNECTED 40 KVA 110 AMPS

PANEL TA-3EL1

SUPPLY: [ ] - BOTT. [x] - TOP [ ] - LUGS [x] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [x] - 3P4W [x] - WITH GRD. BAR — PANEL TA-3EL1 — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ]
50 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	D.I. WAT, POL.WAT,CORR.	1425			1580			LV1-NOR U/PLAT,STAIRS	1	20	2
3	20	1	LOCKERS,CORR.CONT/COM.		1280			875		LV1-STAIRS,AIR LOCK,E/S	1	20	4
5	20	1	TRUCK BAY, DECON.,CORR			1080			1330	LV1-SOUTH U/PLAT,STAIRS	1	20	6
7	20	1	HVAC/ELEC,DEC,SEC.,U-TUN	1900			780			LV2-STAIRS & PASS.-EAST	1	20	8
9	20	1	MER.REM.,PRIM.CONFIN.		1200			845		LV2-SHUT.DR,CRYO.REFR.	1	20	10
11	20	1	COOL LP#1,2,3,4, EXIT SN			900			1800	2 TU ENCLOSURE EM. LTS	1	20	12
13	20	1	EMERG LTS NI	800			875			11 TU ENCLOSURE EM. LTS	1	20	14
15	20	1	EMERG LTS S		800					SPARE	1	20	16
17	20	1	EMERG LTS W			300				SPARE	1	20	18
19	20	1	EMERG LTS N2	550						SPARE	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25			SPACE							SPACE			26
27			SPACE							SPACE			28
29			SPACE							SPACE			30
31													32
33													34
35													36
37													38
39													40
41													42

	A	B	C
PHASE TOTALS COL. #1	4675	3280	2280
PHASE TOTALS COL. #2	3235	1720	3130
PHASE TOTAL VA	7910	5000	5410

TOTAL 3 PHASE CONNECTED 18 KVA 22 AMPS

PANEL TA-3L1

SUPPLY: [ ] - BOTT. [x] - TOP [ ] - LUGS [x] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [x] - 3P4W [x] - WITH GRD. BAR — PANEL TA-3L1 — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] /
100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	D.I. WATER	1890			1920			H.CELL LOAD, COOL.LP#1	1	20	2
3	20	1	P.WAT, WET LAB, COM.COR.		2600			2160		COOL. LOOP#2, CORRIDOR	1	20	4
5	20	1	FORKLIFT CHAR.,CONTROL			1610			2270	COOLING LOOP#3,4	1	20	6
7	20	1	HP, ENTR.CORR.,LOCKERS	2125						SPARE	1	20	8
9	20	1	HVAC/ELECTR.,DEC./RCRA		2065					SPARE	1	20	10
11	20	1	TRUCK BAY, DECONT.,CORR			3245				SPARE	1	20	12
13	20	1	UTILITY TUNNEL, CORR.	2485						SPARE	1	20	14
15	20	1	SECOND..CONFINEMENT		2770					SPARE	1	20	16
17	20	1	MER.REM.,PRIM. CONF.,AIR			1650				SPARE	1	20	18
19	20	1	SPARE							SPARE	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25	20	1	SPARE							SPARE	1	20	26
27	20	1	SPARE							SPARE	1	20	28
29	20	1	SPARE							SPARE	1	20	30
31			SPACE							SPACE			32
33			SPACE							SPACE			34
35			SPACE							SPACE			36
37			SPACE							SPACE			38
39			SPACE							SPACE			40
41			SPACE							SPACE			42

	A	B	C
PHASE TOTALS COL. #1	6500	7435	6505
PHASE TOTALS COL. #2	1920	2160	2270
PHASE TOTAL VA	8420	9595	8775

TOTAL 3 PHASE CONNECTED 27 KVA 32 AMPS

PANEL TA-3L2

SUPPLY: [ ] - BOTT. [x] - TOP [ ] - LUGS [x] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [x] - 3P4W [x] - WITH GRD. BAR — PANEL TA-3L2 — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ]
100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	LVL1-LTS U/PLAT-CL1-5G-K	1475			3240			HIGH BAY LTS-CL11-14G-K	1	20	2
3	20	1	LVL1-LTS U/PLAT-CL5-12G-K		1475			3240		HIGH BAY LTS-CL12-14F	1	20	4
5	20	1	LVL1-ROOM LTS-CL12-16J-K			1120			855	OUTS.LTS CL5-15H-K via LC1	1	20	6
7	20	1	HIGH BAY LTS-CL1-2G-K	3240			885			MONOL.- SHUTTERS DRIVE	1	20	8
9	20	1	HIGH BAY LTS-CL3-4G-K		2160			855		SUB.TA-SS1-2-4 LTS via LC1	1	20	10
11	20	1	HIGH BAY LTS-CL5-6G-K			3240			420	LVL2-PLATFORM LTS CL15-16	1	20	12
13	20	1	HIGH BAY LTS-CL6-7G-K	3240			1405			11 TU ENCLOSURE LTS	1	20	14
15	20	1	HIGH BAY LTS-CL9-10G-K		2160			4240		11 TU ENCLOSURE LTS	1	20	16
17	20	1	HIGH BAY LTS-CL10-11G-K			3240			1420	11 TU ENCLOSURE LTS	1	20	18
19	20	1	SPARE							SPARE	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

	A	B	C
PHASE TOTALS COL. #1	7955	5795	7600
PHASE TOTALS COL. #2	5530	8335	2695
PHASE TOTAL VA	13485	14130	10295

TOTAL 3 PHASE CONNECTED 38 KVA 46 AMPS

PANEL TA-3L3

SUPPLY: [ ] - BOTT. [x] - TOP [ ] - LUGS [x] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [x] - 3P4W [x] - WITH GRD. BAR — PANEL TA-3L3 — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 225 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ]
225 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	LVL1-LTS U/PLAT-CL1-5A-F	1475			3240			HIGH BAY LTS-CL11-13A-E	1	20	2
3	20	1	LVL1-LTS U/PLAT-CL5-12A		1475					SPARE	1	20	4
5	20	1	LVL1-ROOMLTS-CL12-15A-B			600			590	LTS RM TA-121	1	20	6
7	20	1	HIGH BAY LTS-CL1-2A-E	3240			3400			BUILDING &TUNNEL 2TU	1	20	8
9	20	1	HIGH BAY LTS-CL3-4A-E		2160			4040		BUILDING &TUNNEL 2TU	1	20	10
11	20	1	HIGH BAY LTS-CL5-6A-E			3240			2060	BUILDING &TUNNEL 2TU	1	20	12
13	20	1	HIGH BAY LTS-CL6-8A-E	3240			17992			2TU ENCLOSURE			14
15	20	1	HIGH BAY LTS-CL9-10A-E		2160			17992		10 TON BRIDGE CRANE	3	100	16
17	20	1	HIGH BAY LTS-CL10-11A-E			3240			17992				18
19			2 TU ENCLOSURE	11072			370			OUTS.LTS CL4-16A-D via LC2	1	20	20
21	70	3	5 TON BRIDGE CRANE		11072					SPARE	1	20	22
23						11072				SPARE	1	20	24
25			2 TU ENCLOSURE	5813			2104			2TU ENCLOSURE			26
27	30	3	3 TON JIB CRANE		5813			2104		ROLL-UP DOOR-BLDG 2TU	3	20	28
29						5813			2104				30
31			SPACE							SPARE	1	20	32
33			SPACE							SPARE	1	20	34
35			SPACE							SPARE	1	20	36
37			SPACE							SPACE			38
39			SPACE							SPACE			40
41			SPACE							SPACE			42

	A	B	C
PHASE TOTALS COL. #1	24840	22680	23965
PHASE TOTALS COL. #2	25002	24136	22746
PHASE TOTAL VA	49842	46816	46711

TOTAL 3 PHASE CONNECTED 143 KVA 172 AMPS

PANEL TA-3L4

SUPPLY: [ ] - BOTT. [x] - TOP [ ] - LUGS [x] -MAIN BKR. [X] - LTG. [ ] - RECEPT. [ ] - NEMA 1
TYPE: [ ] - 3P3W [x] - 3P4W [x] - WITH GRD. BAR — PANEL TA-3L4 — MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN
MAINS: 100 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ]
100 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP AMP	NO. OF POLES	USED FOR	COL. #1 A	B	C	COL. #2 A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	LVL3-HIGH BAY LTS(CL1-4F)	2160			770			LVL3-LTS CL1-16E	1	20	2
3	20	1	LVL3-HIGH BAY LTS(CL5-6F)		2160			770		LVL3-LTS CL1-16G	1	20	4
5	20	1	LVL3-HIGH BAY LTS(CL7-10F)			3240			630	LVL3-AIR LOCKS LTS	1	20	6
7	20	1	LVL5 LTS NORTH	1890			2660			LVL4-LTS CL1-16C,D,E	1	20	8
9	20	1	LVL5 LTS SOUTH		1890			2860		LVL4-LTS CL1-15F,G	1	20	10
11	20	1	SPARE						2270	LVL4-LTS CL15-16F	1	20	12
13	20	1	SPARE							SPARE	1	20	14
15	20	1	SPARE							SPARE	1	20	16
17	20	1	SPARE							SPARE	1	20	18
19	20	1	SPARE							SPARE	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

	A	B	C
PHASE TOTALS COL. #1	4050	4050	3240
PHASE TOTALS COL. #2	3430	3630	2900
PHASE TOTAL VA	7480	7680	6140

TOTAL 3 PHASE CONNECTED 21 KVA 26 AMPS

KEY SCHEDULE

TA-1SG1	TA-2SG1	TA-3SG1
TA-3PP2A	TA-3EL1	TA-3L1
TA-3L2	TA-3L3	TA-3L4

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THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM 3
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	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0				CERTIFIED FOR CONSTRUCTION - 10/26/01	HG	VGS			(signature)	11/15/01	RAD	11/14/01			(signature)	11/14/01	VGS	00106009	10/26/01	REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE: VICTOR G. STEFFEN, REGISTERED ENGINEER, No. 00106009, STATE OF TENNESSEE — 11-13-01
REV. 0 DATE 11-13-01 — DRAWING APPROVALS

DSN	H.GROVER	10/26/01
DRW	L. MAKOVSKY	10/26/01
CHK	V.STEFFEN	10/26/01
DEPT		
PE	(signature)	11/15/01
PJ	RA Dean	11/14/01
REQ		
UTB	(signature)	11/14/01

108030700-E8E-8700-A191

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UT-BATTELLE
Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under
U.S. GOVERNMENT contract DE-AC05-000R22725
UT-BATTELLE, LLC, Oak Ridge, Tennessee

PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING
PANEL SCHEDULES
SHEET 5

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8700		1	1	S	U
51 NC	52 NA			53	WBS 1.8.3.7		E9.21.34			REV 0