NEXT ASS'Y: FINAL ASS'Y:

GENERAL NOTES:

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

PANEL TA-1PP1 (MEZZ LVL (NORTH))

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [ ] – NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22,000 A.I.C. VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] /
300 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP AMP	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 AMP	CKT. NO.
1	20	2	SINGLE TWISTLOCK REC	1675			1675			SINGLE TWISTLOCK REC	2	20	2
3			VAC PUMPS		1675			1675		VAC PUMPS			4
5	20	1	DUPLX REC GEN PURP			1900			1900	DUPLX REC GEN PURP	1	20	6
7	20	2	SINGLE TWISTLOCK REC	1675			1675			SINGLE TWISTLOCK REC	2	20	8
9			VAC PUMPS		1675			1675		VAC PUMPS			10
11	20	1	DUPLX REC GEN PURP			1900			1900	DUPLX REC GEN PURP	1	20	12
13			FURNACE,	2880			2880			FURNACE,			14
15	30	3	MAGNET PWR SUPPLIES		2880			2880		MAGNET PWR SUPPLIES	3	30	16
17						2880			2880				18
19	30	1	SINGLE REC TWISTLOCK GEN	2880			2880			SINGLE REC TWISTLOCK GEN	1	30	20
21	30	2	SINGLE TWISTLOCK REC		2500			2500		SINGLE TWISTLOCK REC	2	30	22
23			DISPLEXES			2500			2500	DISPLEXES			24
25	100	1	CHOPPER CONTROL RACK	9600			2400			EO(Femi) CHOPPER	1	30	26
27	20	1	SPARE		0					SPARE	1	20	28
29	20	1	SPARE			0				SPARE	1	20	30
31				0						SPARE	1	20	32
33	50	3	SPARE		0					SPARE	1	20	34
35						0				SPARE	1	20	36
37			SPACE							SPACE			38
39			SPACE							SPACE			40
41			SPACE							SPACE			42

NOTE:
1 PANEL SCHEDULE TYPICAL OF 14 POWER PANELS TA-1PP1 THRU TA-1PP14.
REFER TO DWG E2.10.30.

	A	B	C
PHASE TOTALS COL. #1	18710	8730	9180
PHASE TOTALS COL. #2	11510	8730	9180
PHASE TOTAL VA	30220	17460	18360

TOTAL 3 PHASE CONNECTED 66 KVA 183 AMPS

PANEL TA-2PP1 (MEZZ LVL (SOUTH))

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [ ] – NEMA
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22,000 A.I.C. VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] /
300 A. MAIN BKR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP AMP	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 AMP	CKT. NO.
1	20	2	SINGLE TWISTLOCK REC	1675			1675			SINGLE TWISTLOCK REC	2	20	2
3			VAC PUMPS		1675			1675		VAC PUMPS			4
5	20	1	DUPLX REC GEN PURP			1900			1900	DUPLX REC GEN PURP	1	20	6
7	20	2	SINGLE TWISTLOCK REC	1675			1675			SINGLE TWISTLOCK REC	2	20	8
9			VAC PUMPS		1675			1675		VAC PUMPS			10
11	20	1	DUPLX REC GEN PURP			1900			1900	DUPLX REC GEN PURP	1	20	12
13			FURNACE,	2880			2880			FURNACE,			14
15	30	3	MAGNET PWR SUPPLIES		2880			2880		MAGNET PWR SUPPLIES	3	30	16
17						2880			2880				18
19	30	1	SINGLE REC TWISTLOCK GEN	2880			2880			SINGLE REC TWISTLOCK GEN	1	30	20
21	30	2	SINGLE TWISTLOCK REC		2500			2500		SINGLE TWISTLOCK REC	2	30	22
23			DISPLEXES			2500			2500	DISPLEXES			24
25	100	1	CHOPPER CONTROL RACK	9600			2400			EO(Femi) CHOPPER	1	30	26
27	20	1	SPARE							SPARE	1	20	28
29	20	1	SPARE							SPARE	1	20	30
31										SPARE	1	20	32
33	50	3	SPARE							SPARE	1	20	34
35										SPARE	1	20	36
37			SPACE							SPACE			38
39			SPACE							SPACE			40
41			SPACE							SPACE			42

NOTE:
1 PANEL SCHEDULE TYPICAL OF 10 POWER PANELS TA-2PP1 THRU TA-2PP10.
REFER TO DWG E2.10.31.

	A	B	C
PHASE TOTALS COL. #1	18710	8730	9180
PHASE TOTALS COL. #2	11510	8730	9180
PHASE TOTAL VA	30220	17460	18360

TOTAL 3 PHASE CONNECTED 66 KVA 183 AMPS

PANEL TA-1CPP1 (2 TU BLDG)

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [ ] – NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 100 A 10,000 A.I.C. VOLTAGE: [X] –120 / 208 [ ] –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 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	DUPLX REC.Detectors–10 TU	1940			1940			DUPLX REC.Detectors–10 TU	1	20	2
3	20	1	DUPLX REC.Detectors–10 TU		1940			1940		DUPLX REC.Detectors–10 TU	1	20	4
5	20	1	DUPLX REC.Detectors–10 TU			1940			1940	DUPLX REC.Detectors–10 TU	1	20	6
7	30	1	Single Rec.Data Acquisition	2900						SPARE	1	20	8
9	30	1	Single Rec.Data Acquisition		2900					SPARE	1	20	10
11	20	1	SPARE			0				SPARE	1	20	12
13	30	2	208V,30A,Single Rec.Twistlock	700			0			SPARE	2	20	14
15			Pump or Furance backup		700			0					16
17	20	2	SPARE			0			0	SPARE	2	20	18
19				0			0						20
21	20	1	SPARE		0			0		SPARE	1	20	22
23	20	1	SPARE			0			0	SPARE	1	20	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

NOTE:
1 PANEL SCHEDULE TYPICAL OF 14 CLEAN PANELS TA-1CPP1 THRU TA-1CPP14.
REFER TO DWG E2.10.30.

	A	B	C
PHASE TOTALS COL. #1	5540	5540	1940
PHASE TOTALS COL. #2	1940	1940	1940
PHASE TOTAL VA	7480	7480	3880

TOTAL 3 PHASE CONNECTED 19 KVA 52 AMPS

PANEL TA-3PP6 (HIGH BAY)

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [ ] – NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 400 A 22,000 A.I.C. VOLTAGE: [X] –120 / 208 [ ] –277 / 480 [ ] /
350 A. MAIN KR. WITH: [ ] – SHUNT TRIP [ ] – ADJ. TRIP [ ] –G.F.P.

CKT. NO.	TRIP AMP	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 AMP	CKT. NO.
1	20	1	REC–HVAC (ON ROOF)	1080			1080			REC–T/L LVL 4 WALKWAY	1	20	2
3	20	1	REC–T/L LVL.4 WALKWAY		1080			1080		REC–T/L LVL 4 WALKWAY	1	20	4
5	20	1	REC–T/L LVL.4 WALKWAY			1080			1080	REC–T/L LVL 4 WALKWAY	1	20	6
7	20	1	REC–HVAC (ON ROOF)	1080			600			CF_TA–ENCL07	1	20	8
9	20	1	FCV–TA–03		100					SPARE	1	20	10
11	20	1	REC–LEV 3,TA–306,307,310			1080			500	CAB 8700 Ltg,Rec,Data	1	20	12
13	20	1	CAB 8672 Ltg,Rec,Data	500			500			CAB 8701 Ltg,Rec,Data	1	20	14
15	20	1	FCV–TA–04		100			500		CAB 8630 Ltg,Rec,Data	1	20	16
17	20	1	SPARE						1080	REC–LEV 3,TA–302.303,304	1	20	18
19	20	1	REC–LEV 3,TA–302,303,304	360			1080			REC–LEV 3,TA–302.303,304	1	20	20
21	20	1	SPARE							SPARE	1	20	22
23	20	1	SPARE							SPARE	1	20	24
25	20	1	REC–LEV 3,TA–306,307,310	720			540			REC–H.B–TA–302,204,305	1	20	26
27	30	2	H2 xfr PUMP		3100			540		REC–H.B–TA–302,204,305	1	20	28
29			7.5 HP 208V,1ph			3100			800	REC. LEVEL 5 NORTH WALKWAY	1	20	30
31	30	2	Control Htr @ 6.5 KW	3100			800			REC. LEVEL 5 NORTH WALKWAY	1	20	32
33			(Helium Transfer Module)		3100					SPARE	1	20	34
35	20	1	Tgt–ICS 303 CAB01 (H.B.)			1500				SPARE	1	20	36
37			SUB–PANEL	14353						SPARE	1	20	38
39	225	3	TA–3PP6A		16753					SPACE			40
41						13473				SPACE			42

	A	B	C
PHASE TOTALS COL. #1	21193	24233	20233
PHASE TOTALS COL. #2	4600	2120	3460
PHASE TOTAL VA	25793	26353	23693

TOTAL 3 PHASE CONNECTED 76 KVA 211 AMPS

PANEL TA-2CPP1 (MEZZ LV L (SOUTH))

SUPPLY: [ ] – BOTT. [X] – TOP [ ] – LUGS [X] –MAIN BKR. [ ] – LTG. [X] – RECEPT. [ ] – NEMA 1
TYPE: [ ] – 3P3W [X] – 3P4W [X] – WITH GRD. BAR MOUNTING [X] –SURFACE [ ] – FLUSH [ ] –COLUMN
MAINS: 100 A 22,000 A.I.C. VOLTAGE: [X] –120 / 208 [ ] –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 VOLT – AMPS A	B	C	COL. #2 VOLT – AMPS A	B	C	USED FOR	NO. OF POLES	TRIP AMP	CKT. NO.
1	20	1	DUPLX REC BEAM LINE 1A TU	1940			1940			DUPLX REC BEAM LINE 1A TU	1	20	2
3	20	1	DUPLX REC BEAM LINE 1A TU		1940			1940		DUPLX REC BEAM LINE 1A TU	1	20	4
5	20	1	DUPLX REC BEAM LINE 1A TU			1940			1940	DUPLX REC BEAM LINE 1A TU	1	20	6
7	30	1	Single Rec.Data Acquisition	2900						SPARE	1	20	8
9	30	1	Single Rec.Data Acquisition		2900					SPARE	1	20	10
11	20	1	SPARE							SPARE	1	20	12
13	30	2	208V,30A,Single Rec.Twistlock	700						SPARE	1	20	14
15			Pump or Furance backup		700					SPARE	1	20	16
17	20	1	SPARE							SPARE	1	20	18
19	20	1	SPARE							SPARE	1	20	20
21	20	1	SPARE							SPACE			22
23	20	1	SPARE							SPACE			24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42

NOTE:
1 PANEL SCHEDULE TYPICAL OF 10 CLEAN POWER PANELS TA-2CPP1 THRU TA-2CPP10.
REFER TO DWG E2.10.31.

	A	B	C
PHASE TOTALS COL. #1	5540	5540	1940
PHASE TOTALS COL. #2	1940	1940	1940
PHASE TOTAL VA	7480	7480	3880

TOTAL 3 PHASE CONNECTED 19 KVA 52 AMPS

KEY SCHEDULE

TA-1PP1-14	TA-2PP1-10	
TA-1CPP1-14	TA-3PP6	
TA-2CPP1-10		

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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
0				CERTIFIED FOR CONSTRUCTION – 10/26/01	HG	VGS			PLD	11/15/01	RAD	11/14/01			JWF	11/14/01	VGS	00106009	10/26/01

REVISION OR ISSUE PURPOSE — REVISION APPROVALS

SQUAD CHECK:

ST	CV	EC	EE	EM	IE	M	PD	SE	AR
REW	–	WRS	AK	WRS	BWJ	–	MP	–	ED

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 P L Damen 11/15/01
PJ RA Dean 11/14/01
REQ
UTB 11/14/01

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PROJECT NAME: SPALLATION NEUTRON SOURCE

TARGET BUILDING PANEL SCHEDULES SHEET 6

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
3	E	X	X	8	8700		1	1	S	U

51	52	53	WBS	DWG NO.	REV
NC	NA		1.8.3.7	E9.21.35	0