NEXT ASS'Y: FINAL ASS'Y:

PANEL TA-3PP4A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR.
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR
MAINS: 225 A 65000 A.I.C.
225 A. MAIN BKR. WITH:

[X] - LTG. [X] - RECEPT. [ ] - NEMA
MOUNTING [ ] -SURFACE [ ] - FLUSH [ ] -COLUMN
VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] /
[ ] - 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	1P	HOT CELL LTG FIXT 1N/1S – 2N/2S (P-1/2NS)	1820			1820			HOT CELL LTG FIXT 9N/9S-10N/10S (P-9/10NS)	1P	20	2
3	20	1P	HOT CELL LTG FIXT 3N/3S – 4N-4S (P-3/4NS)		1820			720		HOT CELL RECEPTACLES JB-3 (P-RECP3S)	1P	20	4
5	20	1P	HOT CELL LTG FIXT 5N/5S – 6N/6S (P-5/6NS)			1820			720	HOT CELL RECEPTACLES JB-4 (P-RECP4S)	1P	20	6
7	20	1P	HOT CELL LTG FIXT 7N/7S – 8N/8S (P-7/8NS)	1820			720			HOT CELL RECEPTACLES JB-5 (P-RECP5S)	1P	20	8
9	20	1P	HOT CELL RECEPTACLES JB1 (P-RECP1N)		720			850		MANIPULATOR STATION	1P	20	10
11	20	1P	HOT CELL RECEPTACLES JB2 (P-RECP2S)			720			850	MANIPULATOR STATION	1P	20	12
13	20	1P	MANIPULATOR STATION	850			850			MANLPULATOR STATION	1P	20	14
15	20	1P	MANIPULATOR STATION		850			850		MANIPULATOR STATION	1P	20	16
17	20	1P	MANIPULATOR STATION			850			100	INPUT ENCLOSURE No. 2	1P	20	18
19	20	1P	MANIPULATOR STATION	850			180			RECEPTACLE, DUAL CKT. S-R1A	1P	20	20
21	20	1P	INPUT ENCLOSURE No. 1		100			180		RECEPTACLE, DUAL CKT. S-R1B	1P	20	22
23	20	1P	RECEPTACLE, DUAL CKT. S-R2A			180			180	RECEPTACLE, DUAL CKT. S-R2B	1P	20	24
25	20	1P	RECEPTACLE, DUAL CKT. S-R7A	180			180			RECEPTACLE, DUAL CKT. S-R7B	1P	20	26
27	20	1P	RECEPTACLE, DUAL CKT. S-R8A		180			180		RECEPTACLE, DUAL CKT. S-R8B	1P	20	28
29	20	1P	RECEPTACLE, DUAL CKT. S-R9A			180			180	RECEPTACLE, DUAL CKT. S-R9B	1P	20	30
31	20	1P	RECEPTACLE, DUAL CKT. S-R12A	180			180			RECEPTACLE, DUAL CKT. S-R12B	1P	20	32
33	20	1P	RECEPTACLE, DUAL CKT. S-R15A		180			180		RECEPTACLE, DUAL CKT. S-R15B	1P	20	34
35	20	1P	RECEPTACLE, DUAL CKT. S-R16A			180			180	RECEPTACLE, DUAL CKT. S-R16B	1P	20	36
37	20	1P	SPARE				1440			RECEPTACLE, SOUTH GALLERY	1P	20	38
39	20	1P	SPARE							SPARE	1P	20	40
41	20	1P	SPARE							SPARE	1P	20	42

	A	B	C
PHASE TOTALS COL. #1	5700	3850	3930
PHASE TOTALS COL. #2	3930	2960	3650
PHASE TOTAL VA	9630	6810	7580

TOTAL 3 PHASE CONNECTED 24.0 KVA 200 AMPS

PANEL TA-3PP4B

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR.
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR
MAINS: 225 A 65000 A.I.C.
225 A. MAIN BKR. WITH:

[ ] - LTG. [X] - RECEPT. [ ] - NEMA
MOUNTING [ ] -SURFACE [ ] - FLUSH [ ] -COLUMN
VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] /
[ ] - 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	1P	HOT CELL RECEPTACLES JB7 (P-RECP1/2N)	720			180			RECEPTACLE, DUAL CKT. E-R1A	1P	20	2
3	20	1P	HOT CELL RECEPTACLES JB7 (P-RECP3/4N)		720			180		RECEPTACLE, DUAL CKT. E-R2A	1P	20	4
5	20	1P	HOT CELL RECEPTACLES JB7 (P-RECP5N)			720			180	RECEPTACLE, DUAL CKT. E-R3A	1P	20	6
7	20	1P	RECEPTACLE, DUAL CKT. N-R1A	180			180			RECEPTACLE, DUAL CKT. E-R4A	1P	20	8
9	20	1P	RECEPTACLE, DUAL CKT. N-R2A		180			180		RECEPTACLE, DUAL CKT. E-R1B	1P	20	10
11	20	1P	RECEPTACLE, DUAL CKT. N-R3A			180			180	RECEPTACLE, DUAL CKT. E-R2B	1P	20	12
13	20	1P	RECEPTACLE, DUAL CKT. N-R4A	180			180			RECEPTACLE, DUAL CKT. E-R3B	1P	20	14
15	20	1P	RECEPTACLE, DUAL CKT. N-R1B		180			180		RECEPTACLE, DUAL CKT. E-R4B	1P	20	16
17	20	1P	RECEPTACLE, DUAL CKT. N-R2B			180			900	RECEPTACLE, DECON AREA	1P	20	18
19	20	1P	RECEPTACLE, DUAL CKT. N-R3B	180			360			RECEPTACLE, MEZZANINE AREA	1P	20	20
21	20	1P	RECEPTACLE, DUAL CKT. N-R4B		180			HOLD		VACP1522A	1P	20	22
23	20	1P	RECEPTACLE, NORTH GALLERY			900					1P	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	540	540	1440
PHASE TOTALS COL. #2	900	540	1260
PHASE TOTAL VA	1440	1080	2700

TOTAL 3 PHASE CONNECTED 5.22 KVA 43.5 AMPS

PANEL TA-3PP4A 1

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR.
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR
MAINS: 225 A 65000 A.I.C.
225 A. MAIN BKR. WITH:

[X] - LTG. [X] - RECEPT. [ ] - NEMA
MOUNTING [ ] -SURFACE [ ] - FLUSH [ ] -COLUMN
VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] /
[ ] - 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	15	1P	CCTV MONITOR RECPTACLE S-R3	1820			1820			CCTV MONITOR RECPTACLE S-R10	1P	15	2
3	15	1P	CCTV MONITOR RECPTACLE S-R6		1820			720		CCTV MONITOR RECPTACLE S-R114	1P	15	4
5	15	1P	RECPT, HI PRESS SPRAY			HOLD				SPARE	1P	15	6
7	15	1P	SPARE							SPARE	1P	15	8
9	15	1P	SPARE							SPARE	1P	15	10
11	15	1P	SPARE							SPARE	1P	15	12
13	15	1P	SPARE							SPARE	1P	15	14
15	15	1P	SPARE							SPARE	1P	15	16
17	15	1P	SPARE							SPARE	1P	15	18
19	15	1P	SPARE							SPARE	1P	15	20
21	15	1P	SPARE							SPARE	1P	15	22
23	15	1P	SPARE							SPARE	1P	15	24

	A	B	C
PHASE TOTALS COL. #1	1820	1820	0
PHASE TOTALS COL. #2	1820	720	0
PHASE TOTAL VA	3640	2540	0

TOTAL 3 PHASE CONNECTED 6.18 KVA 51.5 AMPS

PANEL TA-3DP6A

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR.
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR
MAINS: 400 A 65000 A.I.C.
225 A. MAIN BKR. WITH:

[ ] - LTG. [ ] - RECEPT. [ ] - NEMA
MOUNTING [ ] -SURFACE [ ] - FLUSH [ ] -COLUMN
VOLTAGE: [ ] -120 / 208 [X] -277 / 480 [ ] /
[ ] - 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	60	3P	WELD RECPT E1	9600	9600	9600	9600	9600	9600	WELD RECPT S3 & S4	3P	60	2
3	60	3P	WELD RECPT S1 & S2	9600	9600	9600	9600	9600	9600	WELD RECPT N1	3P	60	4
5	60	3P	WELD RECPT N2 & N3	9600	9600	9600	9600	9600	9600	WELD RECPT N2 & N3	3P	60	6
7	60	3P	WELD RECPT N4 & N5	9600	9600	9600				SPARE	3P	60	8
9													10
11													12

	A	B	C
PHASE TOTALS COL. #1	38400	38400	38400
PHASE TOTALS COL. #2	28800	28800	28800
PHASE TOTAL VA	67200	67200	67200

TOTAL 3 PHASE CONNECTED 202 KVA 420 AMPS – WITH 50% DIVERSITY, OPERATING AMPS=210 AMPS

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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	LJF	JWH			(signature)	11/15/01	RAD	11/14/01			(signature)	11/14/01	JWH	107492	11/13/01

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK: ST CV EC EE EM IE M PD SE AR

RPE (seal: JERRY WAYNE HARRIS, REGISTERED ENGINEER, AGRICULTURE, COMMERCE, NO. 107492, STATE OF TENNESSEE, 11/16/01)

DSN (signature) 11/13/01
DRW (signature) 11/13/01
CHK (signature) 11/14/01
DEPT
PE (signature) 11/14/01
PJ R A Dean 11/14/01
REQ
UTB (signature) 11/14/01
REV. DATE DRAWING APPROVALS

108030700-J8E-8700-A004

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PROJECT NAME:
SPALLATION NEUTRON SOURCE

TARGET BUILDING POWER PANEL SCHEDULES TA-3PP4A, TA-3PP4A 1, TA-3PP4B & TA-3DP6A

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

51	52	53	WBS		REV
NC	NA	IN	1.8.3.7	J1.15.30	0

J1.15.30