GENERAL NOTES:

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

DISTRIBUTION PANEL TA-3DP1 (HIGHBAY)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 600 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE. U.O.N — 600 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	100	LTG PNL TA-3L2	37910	143369	LTG PNL TA-3L3	225	2
3	125	TA-3T6 75KVA,480V-120/208V FEED PNL-TA-3PP6	78719	–	SPARE	60	4
5	30	SPARE	–	–	SPARE	30	6
7	100	SPARE	–	–	SPARE	50	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 116629
PHASE TOTALS COL. #2 143369
PHASE TOTAL VA 259998
TOTAL CONNECTED 260 KVA 313 AMPS

DISTRIBUTION PANEL TA-3DP2 (BASEMENT)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 400 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 400 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	135	TA-3T1-45KVA XFMR (PNL TA-3PP1)	29880	63580	TA-3T2-45KVA XFMR (PNL TA-3PP2)	135	2
3	70	ROLL UP DOOR #1 TA-RD-03	48000	26790	LTG PNL TA-3L1	35	4
5	125	ISOLATION TRANSFORMER TA-3UPS1-75KVA,480V INPUT	75000	30000	REC. 480V, 3F RCRA RM TA-B140	60	6
7	30	SPARE	–	30000	REC. 480V, 3F TA-B135, TA-B132	60	8
9	30	SPARE	–	–	SPARE	50	10
11	50	ROLL UP DOOR TAB-153B	25000	25000	ROLL UP DOOR TAB-153E	50	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 177880
PHASE TOTALS COL. #2 175370
PHASE TOTAL VA 353250
TOTAL CONNECTED 353 KVA 425 AMPS

DISTRIBUTION PANEL TA-3DP3 (INSTR LVL)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 800 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 800 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	350	TA-3T3 225KVA XFMR (TA-3PP3)	155452	245470	PNL TA-3DP5	400	2
3	70	BRIDGE CRANE 50T, HIGH BAY	48000	225000	PNL TA-3DP6	400	4
5	40	LTG PNL TA-3L4	19000	135000	PNL 3DPA (HIGH BAY)	125	6
7	125	PORTABLE MANIPULATOR TA-3DP3A (480V PANEL)	75000	–	SPARE	60	8
9	50	SPARE	–	–	SPARE	100	10
11	–	SPACE	–	–	SPACE	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 297452
PHASE TOTALS COL. #2 605470
PHASE TOTAL VA 902922
TOTAL CONNECTED 903 KVA 1086 AMPS

DISTRIBUTION PANEL TA-3DP3A (HIGH BAY)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 225 A 42000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 125 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	50	XFRM TA-3T7(30 KVA) TA-3PP3E	30000	10000	PORTABLE MANIPULATOR	20	2
3	20	REC, 480V, 3F COL G/7, G/9.5, G/12	15000	10000	PORTABLE MANIPULATOR	20	4
5	20	REC, 480V, 3F COL G/7, G/10, G/12	15000	5000	PORTABLE MANIPULATOR	20	6
7	–	BLANK	–	–	BLANK	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

NOTE: PORTABLE MANIPULATORS CONNECTIONS BY OTHERS, ESTIMATED LOADS ONLY FOR PANEL LOADING PURPOSES.

PHASE TOTALS COL. #1 60000
PHASE TOTALS COL. #2 25000
PHASE TOTAL VA 85000
TOTAL CONNECTED 85 KVA 102 AMPS

DISTRIBUTION PANEL TA-3DP4 (INSTR LVL)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 800 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 600 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	125	TA-3T4-75KVA XFMR (PNL TA-3PP4A)	75000	75000	TA-3T5-75KV XFMR PNL TA-3PP4B	125	2
3	80	BRIDGE CRANE #2 TA-BC-02, 30T	48000	48000	BRIDGE CRANE #1 TA-BC-01, 30T	80	4
5	225	SUB-PNL TA-3DP4A INSTR LEVEL 1-COL K/6	60312	13000	DESIGN VERIFICATION TEST STAND (DVTS) FUTURE	20	6
7	15	SPARE	–	13000	DESIGN VERIFICATION TEST STAND (DVTS) FUTURE	20	8
9	15	SPARE	–	–	SPARE	15	10
11	70	TA-RD #1 ROLL UP DOOR #1	40284	40284	TA-RD#2 ROLL UP DOOR #2	70	12
13	20	SPARE	–	–	SPARE	20	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 223596
PHASE TOTALS COL. #2 189284
PHASE TOTAL VA 412880
TOTAL CONNECTED 413 KVA 497 AMPS

DISTRIBUTION PANEL TA-3DP4A (INSTR LEVEL COL.K/6)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 400 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 225 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	20	ROLL-UP DOOR 11TU BLDG PWR/CONT PANEL	6312	54000	10 TON BRIDGE CRANE 11TU BLDG PWR/CONT PANEL	100	2
3	30	SPARE	–	–	SPARE	70	4
5	20	SPARE	–	–	SPARE	20	6
7	30	SPARE	–	–	SPARE	30	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 6312
PHASE TOTALS COL. #2 54000
PHASE TOTAL VA 60312
TOTAL CONNECTED 60 KVA 73 AMPS

DISTRIBUTION PANEL TA-3DP5 (INSTR LVL)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 400 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 400 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	15	TARGET CELL CLR FAN TA-CF-01	1470	130000	DECON AREA MEZZ TA-3DP5A	150	2
3	35	MERCURY PP TA-HG-VFD-011	60000	45000	CHOPPER LAYDOWN DEVELOPMENT AREA (FUTURE)	70	4
5	40	BRIDGE CRANE IN CELL	24000	45000	CHOPPER LAYDOWN DEVELOPMENT AREA (FUTURE)	70	6
7	20	SPARE	–	–	SPARE	40	8
9	30	SPARE	–	–	SPACE	–	10
11				–		–	12
13				–		–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 85470
PHASE TOTALS COL. #2 220000
PHASE TOTAL VA 305470
TOTAL CONNECTED 305 KVA 367 AMPS

DISTRIBUTION PANEL TA-3DP6 (INSTR LVL)

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [ ] - EMRG. [X] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 400 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 400 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	70	LOCAL MACHINE SHOP GENERAL PURPOSE (FUTURE)	45000	45000	LOCAL MACHINE SHOP GENERAL PURPOSE (FUTURE)	70	2
3	50	MAGNET AREA (FUTURE)	25000	65000	TA-3DP6A	225	4
5	60	TA-3T8 45 KVA 480-120/208 V FEED PNL TA-3PP7	45000	–	SPARE	50	6
7	–	–	–	–	–	–	8
9	–	–	–	–	–	–	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 115000
PHASE TOTALS COL. #2 110000
PHASE TOTAL VA 225000
TOTAL CONNECTED 225 KVA 271 AMPS

DISTRIBUTION PANEL TA-3EDP1 (INSTR LVL)-ELE. RM

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. [X] - EMRG. [ ] -NORMAL. [ ] -TECH. 1
TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR — MOUNTING [ ] -SURFACE [X] - FREE STAND.
MAINS: 400 A 65,000 A.I.C. — VOLTAGE: [ ] -120 / 208 [X] -277 / 480 /
ALL BREAKERS ARE 3 POLE UON — 400 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	125	75KVA 480V INPUT TA-3UPS1-FEED TA-3UP1	72559	18320	PANEL TA-3EL1 (EMERG LTS)	50	2
3	30	TA-MUA-01 10HP (HIGH BAY)	14000	14000	TA-MUA-02 10HP (HIGH BAY)	30	4
5	20	TA-MUA-03 5HP(BASEMETNT)	7600	7600	TA-MUA-04 5HP (BASEMENT)	20	6
7	50	PANEL TA-3EL2 (EMERG. LTS-LV 2 &3)	13410	–	SPARE	30	8
9	30	SPARE	–	–	SPARE	30	10
11	–	–	–	–	–	–	12
13	–	–	–	–	–	–	14
15	–	–	–	–	–	–	16
17	–	–	–	–	–	–	18

PHASE TOTALS COL. #1 107569
PHASE TOTALS COL. #2 39920
PHASE TOTAL VA 147489
TOTAL CONNECTED 147 KVA 177 AMPS

KEY SCHEDULE

TA-3DP1	TA-3DP2	TA-3DP3
TA-3DP3A	TA-3DP4	TA-3DP4A
TA-3DP5	TA-3DP6	TA-3EDP1

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CHANGE CONTROL SYSTEM 3
ENGINEERING PROCEDURE SNS-ENG-G001

REV	DESCRIPTION	DSN	CHK	DEPT	DATE	RPE NO	DATE	ST	CV	EC	EE	EM	IE	M	PD	SE	AR
0	CERTIFIED FOR CONSTRUCTION - 10/26/01	HG	VGS			00106009	10/26/01	REW	–	WRS	AK	WRS	BMJ	–	MP	–	ED

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — SQUAD CHECK

RPE — REV. 0 DATE 11-13-01
DSN H.GROVER 10/26/01
DRW L. MAKOVSKY 10/26/01
CHK V.STEFFEN 10/26/01
PE 11/15/01
PJ 11/14/01
UTB 11/14/01
DRAWING APPROVALS

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PROJECT NAME: SPALLATION NEUTRON SOURCE

TARGET BUILDING PANEL SCHEDULES SHEET 2

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 — E9.21.31 — REV 0

Date: 11/13/2001 Time: 11:21:30
Username: MAKOVSKYL
KGSFO_VOL2:PROJECTS\7000\700_CADD\TASK_5A\740_PLOT\E9-21-31.DWG