Date&Time: 01/25/94 12:15:53 User: BKS Filename: E:\SEND-TO.FNL\KEPSSC11

* PP-NM4-1 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 10,000 PHASE B: 9,000 PHASE C: 8,000 — MOUNTING: SURFACE — TOTAL WATTS: 15,000

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
POWER DUCT DUPLEX	1000			20	1	2	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	3	4	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	5	6	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	7	8	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	9	10	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	11	12	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	13	14	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	15	16	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	17	18	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	19	20	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	21	22	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	23	24	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	25	26	20	1000			POWER DUCT DUPLEX
SPARE		-		20	27	28	20		1000		POWER DUCT DUPLEX
SPARE			-	20	29	30	20			-	SPARE
SPARE	-			20	31	32	20	-			SPARE
SPARE		-		20	33	34	20		-		SPARE
SPARE			-	20	35	36	20			-	SPARE
SPARE	-			20	37	38	20	-			SPARE
SPARE		-		20	39	40	20		-		SPARE
SPARE			-	20	41	42	20			-	SPARE

225A SHUNT TRIP

* PP-NM4-4 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 13,200 PHASE B: 11,400 PHASE C: 11,600 — MOUNTING: SURFACE — TOTAL WATTS: 28,800

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
SURFACE RACEWAY	1000			20	1	2	20	1000			POWER DUCT DUPLEX
SURFACE RACEWAY		1000		20	3	4			1000		POWER DUCT DUPLEX
SURFACE RACEWAY			1000	20	5	6	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	7	8		1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	9	10	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	11	12				1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	13	14	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	15	16			1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	17	18	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	19	20	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	21	22	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	23	24	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	25	26	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		200		20	27	28	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			200	20	29	30	20			1000	POWER DUCT DUPLEX
SURFACE RACEWAY	1000			20	31	32	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		200		20	33	34	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			200	20	35	36	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	200			20	37	38	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		200		20	39	40	20		1000		POWER DUCT DUPLEX
SPARE			-	20	41	42	20			1000	POWER DUCT DUPLEX

225A SHUNT TRIP

PP-NM4-7 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 12,800 PHASE B: 14,300 PHASE C: 13,200 — MOUNTING: SURFACE — TOTAL WATTS: 40,300

S/N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
SMOKE VENT	300			20	1	2	20	800			SF-100, SF-101
NORTH BLDG. RECEPTACLES		200		20	3	4	20		600		SF-104, SF-102
ELEC. ROOM RECEPTACLES			400	20	5	6	20			1000	EVC
TOILETS & SOUTH BLDG.	800			20	7	8	20	-			SPARE
EAST BLDG. RECEPTACLES		800		20	9	10	20		-		SPARE
GTM-100			200	20	11	12	20			-	SPARE
CHR-100	500			20	13 **	14	20	-			SPARE
LIGHTING CONTROL PANEL		300		20	15 **	16	30		2000		CUH-100
AP-NM4-1			300	20	17 **	18				2000	CUH-100
FCP	800			20	19 **	20	30	2000			CUH-100A
VESDA CONTROL CONSOLE		600		20	21	22			2000		CUH-100A
SPARE			-	20	23	24	30			2100	EBH-100
SPARE	-			20	25	26		2100			EBH-100
SPARE		-		20	27	28	40		3000		EBH-100A
SPARE			-	20	29	30				3000	EBH-100A
SPARE	-			20	31	32	40	3000			EBH-100B
SPARE		-		20	33	34			3000		EBH-100B
SPARE			-	20	35	36	40			3000	EBH-100C
SPARE	-			20	37	38		3000			EBH-100C
SPARE		-		20	39	40	30		2000		EBH-100D
SPARE			-	20	41	42				2000	EBH-100D

150A

* PP-NM4-2 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 15,800 PHASE B: 16,800 PHASE C: 16,800 — MOUNTING: SURFACE — TOTAL WATTS: 55,000

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
POWER DUCT DUPLEX	1000			20	1	2	20	-			SPARE
POWER DUCT DUPLEX		1000		20	3	4	20		400		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	5	6				400	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	7	8	20	400			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	9	10			400		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	11	12	20			400	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	13	14		400			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	15	16	30		2000		POWER DUCT OUTLET
POWER DUCT DUPLEX			1000	20	17	18				2000	POWER DUCT OUTLET
POWER DUCT DUPLEX	1000			20	19	20	30	2000			POWER DUCT OUTLET
POWER DUCT DUPLEX		1000		20	21	22			2000		POWER DUCT OUTLET
POWER DUCT DUPLEX			1000	20	23	24	30			2000	POWER DUCT OUTLET
POWER DUCT DUPLEX	1000			20	25	26		2000			POWER DUCT OUTLET
POWER DUCT DUPLEX		1000		20	27	28	30		2000		POWER DUCT OUTLET
POWER DUCT DUPLEX			1000	20	29	30				2000	POWER DUCT OUTLET
POWER DUCT DUPLEX	1000			20	31	32	30	2000			POWER DUCT OUTLET
POWER DUCT DUPLEX		1000		20	33	34			2000		POWER DUCT OUTLET
POWER DUCT DUPLEX			1000	20	35	36	30			2000	POWER DUCT OUTLET
POWER DUCT DUPLEX	1000			20	37	38		2000			POWER DUCT OUTLET
SPARE		-		20	39	40	30		2000		POWER DUCT OUTLET
SPARE			-	20	41	42				2000	POWER DUCT OUTLET

225A SHUNT TRIP

* PP-NM4-5 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: PHASE B: PHASE C: — MOUNTING: SURFACE — TOTAL WATTS:

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
POWER DUCT DUPLEX	-			20	1	2	20	-			POWER DUCT DUPLEX
POWER DUCT DUPLEX		-		20	3	4	20		-		POWER DUCT DUPLEX
POWER DUCT DUPLEX			-	20	5	6	20			-	POWER DUCT DUPLEX
POWER DUCT DUPLEX	-			20	7	8	20	-			POWER DUCT DUPLEX
POWER DUCT DUPLEX		-		20	9	10	20		-		POWER DUCT DUPLEX
POWER DUCT DUPLEX			-	20	11	12	20			-	POWER DUCT DUPLEX
POWER DUCT DUPLEX	-			20	13	14	20	-			POWER DUCT DUPLEX
SPARE		-		20	15	16	20		-		SPARE
SPARE			-	20	17	18	20			-	SPARE
SPARE	-			20	19	20	20	-			SPARE
SPARE		-		20	21	22	20		-		SPARE
SPARE			-	20	23	24	20			-	SPARE
SPARE	-			20	25	26	20	-			SPARE
SPARE		-		20	27	28	20		-		SPARE
SPARE			-	20	29	30	20			-	SPARE
SPARE	-			20	31	32	20	-			SPARE
SPARE		-		20	33	34	20		-		SPARE
SPARE			-	20	35	36	20			-	SPARE
SPARE	-			20	37	38	20	-			SPARE
SPARE		-		20	39	40	20		-		SPARE
SPARE			-	20	41	42	20			-	SPARE

225A SHUNT TRIP

PP-NM4-8 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: PHASE B: PHASE C: — MOUNTING: SURFACE — TOTAL WATTS:

S/N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
NMSA RECEPTACLES	300			20	1	2	20	800			EXP. HALL RECEPTACLES
EF-101, EF-102		1200		20	3	4	20		400		DECAY RECEPTACLES
EF-103			800	20	5	6	20			-	SPARE
NMSA & DECAY OUTLETS	1000				7	8		1000			EXPERIMENTAL HALL OUTLETS
NMSA & DECAY OUTLETS		1000		20	9	10	20		1000		EXPERIMENTAL HALL OUTLETS
NMSA & DECAY OUTLETS			1000		11	12				1000	EXPERIMENTAL HALL OUTLETS
SPARE	-			20	13	14	20	-			SPARE
SPARE		-		20	15	16	20		-		SPARE
SPARE			-	20	17	18	20			-	SPARE
SPARE	-			20	19	20	20	-			SPARE
SPARE		-		20	21	22	20		-		SPARE
SPARE			-	20	23	24	20			-	SPARE
SPARE	-			20	25	26	20	-			SPARE
SPARE		-		20	27	28	20		-		SPARE
SPARE			-	20	29	30	20			-	SPARE
SPACE				20	31	32	20				SPACE
SPACE				20	33	34	20				SPACE
SPACE				20	35	36	20				SPACE
SPACE				20	37	38	20				SPACE
SPACE				20	39	40	20				SPACE
SPACE				20	41	42	20				SPACE

150A

* PP-NM4-3 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 9,500 PHASE B: 10,500 PHASE C: 9,500 — MOUNTING: SURFACE — TOTAL WATTS: 25,000

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
POWER DUCT DUPLEX	1000			20	1	2	20	-			SPARE
POWER DUCT DUPLEX		1000		20	3	4	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	5	6	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	7	8	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	9	10	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	11	12	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	13	14	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	15	16	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	17	18	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	19	20	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	21	22	20		1000		POWER DUCT DUPLEX
SPARE			-	20	23	24	20			1000	POWER DUCT DUPLEX
POWER DUCT No. 4 DUPLEX	500			20	25	26	20	1000			POWER DUCT DUPLEX
POWER DUCT No. 4 DUPLEX		500		20	27	28	20		1000		POWER DUCT DUPLEX
POWER DUCT No. 4 DUPLEX			500	20	29	30	20			1000	POWER DUCT DUPLEX
POWER DUCT No. 4 DUPLEX	500			20	31	32	20	-			SPARE
POWER DUCT No. 4 DUPLEX		500		20	33	34	20		-		SPARE
POWER DUCT No. 4 DUPLEX			500	20	35	36	20			-	SPARE
POWER DUCT No. 4 DUPLEX	500			20	37	38	20	-			SPARE
POWER DUCT No. 4 DUPLEX		500		20	39	40	20		-		SPARE
POWER DUCT No. 4 DUPLEX			500	20	41	42	20			-	SPARE

225A SHUNT TRIP

* PP-NM4-6 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: 5000 PHASE B: 4000 PHASE C: 4000 — MOUNTING: SURFACE — TOTAL WATTS: 13,000

200% N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
POWER DUCT DUPLEX	1000			20	1	2	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	3	4	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	5	6	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	7	8	20	1000			POWER DUCT DUPLEX
POWER DUCT DUPLEX		1000		20	9	10	20		1000		POWER DUCT DUPLEX
POWER DUCT DUPLEX			1000	20	11	12	20			1000	POWER DUCT DUPLEX
POWER DUCT DUPLEX	1000			20	13	14	20	-			SPARE
SPARE		-		20	15	16	20		-		SPARE
SPARE			-	20	17	18	20			-	SPARE
SPARE	-			20	19	20	20	-			SPARE
SPARE		-		20	21	22	20		-		SPARE
SPARE			-	20	23	24	20			-	SPARE
SPARE	-			20	25	26	20	-			SPARE
SPARE		-		20	27	28	20		-		SPARE
SPARE			-	20	29	30	20			-	SPARE
SPARE	-			20	31	32	20	-			SPARE
SPARE		-		20	33	34	20		-		SPARE
SPARE			-	20	35	36	20			-	SPARE
SPARE	-			20	37	38	20	-			SPARE
SPARE		-		20	39	40	20		-		SPARE
SPARE			-	20	41	42	20			-	SPARE

225A SHUNT TRIP

PP-NM4-9 — 10,000 AIC

SERVICE: 120/208V, 3φ, 4W — MAINS: 225A
CONN. WATTS: PHASE A: PHASE B: PHASE C: — MOUNTING: SURFACE — TOTAL WATTS:

S/N	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	GROUND
EXP. HALL RECEPTACLES	600			20	1	2	20	-			SPARE
CF-108		500		20	3	4	20		-		SPARE
SPARE			-	20	5	6	20			-	SPARE
EXPERIMENTAL HALL OUTLETS	-				7	8	20	-			SPARE
EXPERIMENTAL HALL OUTLETS		-		20	9	10	20		-		SPARE
EXPERIMENTAL HALL OUTLETS			-		11	12	20			-	SPARE
SPARE	-			20	13	14	20	-			SPARE
SPARE		-		20	15	16	20		-		SPARE
SPARE			-	20	17	18	20			-	SPARE
SPARE	-			20	19	20	20	-			SPARE
SPARE		-		20	21	22	20		-		SPARE
SPARE			-	20	23	24	20			-	SPARE
SPARE	-			20	25	26	20	-			SPARE
SPARE		-		20	27	28	20		-		SPARE
SPARE			-	20	29	30	20			-	SPARE
SPACE				20	31	32	20				SPACE
SPACE				20	33	34	20				SPACE
SPACE				20	35	36	20				SPACE
SPACE				20	37	38	20				SPACE
SPACE				20	39	40	20				SPACE
SPACE				20	41	42	20				SPACE

150A

* - INDICATES PANEL TO BE FURNISHED BY [illegible].
** - INDICATES BRANCH WITH LOCKOUT DEVICE.

No.	Date	Previous Issue Description	By
6	5/19/95	REVISED CIRCUIT DESCRIPTIONS	

	NAME	DATE
DISCIPLINE REVIEW	D. VALDES	1/28/94
CRITERIA REVIEW	J. TITUS, S. DIXON	1/28/94
E&P APPROVAL	E. CRUMPLEY	1/28/94
FESS APPROVAL	W. NESTANDER	1/28/94
SUBMITTED	G. BOCK	1/28/94

SCALE:

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

KTeV EXPERIMENTAL AREA
POWER PANEL SCHEDULES - SHT. 2

DRAWING No. 8-6-3 E-11 REV. 6

19 MAY 1995