NEXT ASS'Y: FINAL ASS'Y:

PANEL CN-2EPPC-1

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MAINS: 225 A 22000 A.I.C.

[ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1

MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN

VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /

225 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	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	CKT. NO.
1			CN-2EPP2-1	11000			3000			IT RM B1-6-52 DATA RACK	30	1	2
3	150	3	LAB COMPUTER ROOM		10600			500		IT RM B1-6-52 PAGING RACK	20	1	4
5						15600			1000	FA CONTROL PANEL	20	1	6
7	20	1	EF-CN-12 (1/4 HP)	720			1000			5 MECH DDC'S, RM B1-7-2	20	1	8
9	20	1	EF-CN-14 (1/4 HP)		720			300		MECH CONSOLE, RM B1-7-11	20	1	10
11	20	1	EF-CN-15 (1/4 HP)			720			300	MECH CONSOLE, RM B1-7-11	20	1	12
13	20	1	EF-CN-16 (1/4 HP)	720			0			SPARE	20	1	14
15	20	1	SPARE		0			0		SPARE	20	1	16
17	20	1	SPARE			0			0	SPARE	20	1	18
19	20	1	SPARE	0						SPACE			20
21	20	1	SPARE		0					SPACE			22
23	20	1	SPARE			0				SPACE			24
25			SPACE							SPACE			26
27			SPACE							SPACE			28
29			SPACE							SPACE			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	12440	11320	16320
PHASE TOTALS COL. #2	4000	800	1300
PHASE TOTAL VA	16440	12120	17620

TOTAL 3 PHASE CONNECTED 46 KVA 128 AMPS

PANEL CN-2EP4-1

SUPPLY: [X] - BOTT. [ ] - TOP [ ] - LUGS [X] -MAIN BKR. TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MAINS: 225 A 42,000 A.I.C.

[ ] - LTG. [ ] - RECEPT. [X] -POWER NEMA 1

MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN

VOLTAGE: [ ] -120 / 208 [ ] -277 / 480 [X] 480V /3W

225 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	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	CKT. NO.
1			EF-CN-01	6667			6667			CN-2VFD17			2
3	60	3	LAB BLDG EF, 40 HP		6667			6667		LAB BLDG MUA, 40 HP	3	60	4
5			(50% LOADED)			6667			6667	MUA-CN-03 (50% LOADED)			6
7			EF-CN-02	6667			6667			CN-2VFD18			8
9	60	3	LAB BLDG EF, 40 HP		6667			6667		LAB BLDG MUA, 40 HP	3	60	10
11			(50% LOADED)			6667			6667	MUA-CN-04 (50% LOADED)			12
13			SPACE	0			0			SPARE	1	20	14
15			SPACE		0			0		SPARE	1	20	16
17			SPACE			0			0	SPARE	1	20	18
19			SPACE	0			0			SPARE	1	20	20
21			SPACE		0			0		SPARE	1	20	22
23			SPACE			0			0	SPARE	1	20	24
25			SPACE	0			0			SPARE	1	20	26
27			SPACE		0			0		SPARE	1	20	28
29			SPACE			0			0	SPARE	1	20	30
31			SPACE	0			0			SPARE	1	20	32
33			SPACE		0			0		SPARE	1	20	34
35			SPACE			0			0	SPARE	1	20	36
37			SPACE	0			0			SPARE	1	20	38
39			SPACE		0			0		SPARE	1	20	40
41			SPACE			0			0	SPARE	1	20	42

	A	B	C
PHASE TOTALS COL. #1	13334	13334	13334
PHASE TOTALS COL. #2	13334	13334	13334
PHASE TOTAL VA	26668	26668	26668

TOTAL 3 PHASE CONNECTED 80 KVA 96 AMPS

PANEL CN-2EPPC-2

SUPPLY: [ ] - BOTT. [X] - TOP [ ] - LUGS [X] -MAIN BKR. TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MAINS: 225 A 22000 A.I.C.

[ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1

MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN

VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /

225 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	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	CKT. NO.
1	40	2	SEM/EDX	6032			8640			SEM/FIB			2
3			(MS01)		6032			8640		(MB01.07)	3	100	4
5	20	1	SEM/EDX (MS01.01)			1440			8640				6
7	25	1	SEM/EDX (MS01.02)	2280			5000			E-B LITHO (XE01.05)	1	60	8
9	20	1	SEM/EDX (MS01.03)		1440			2000		E-B LITHO (XE01.06)	1	25	10
11	20	1	SEM/MET (MC01.01)			1440			5000	E-B LITHO (XE01.08)	1	60	12
13	20	1	SEM/MET (MC01.02)	1440			10000			E-B LITHO (XE01.09)	1	110	14
15	20	1	SEM/MET (MC01.03)		1440			5000		E-B LITHO PS RACK (XE01.15)	1	60	16
17	20	1	SPARE			0			2500	E-B LITHO VAC RACK	2	20	18
19	20	1	SPARE	0			2500			(XE01.15)			20
21	20	1	SPARE		0					SPACE			22
23	20	1	SPARE			0				SPACE			24
25	20	1	SPARE	0						SPACE			26
27	20	1	SPARE		0					SPACE			28
29	20	1	SPARE			0				SPACE			30
31	20	1	SPARE	0						SPACE			32
33	20	1	SPARE		0					SPACE			34
35	20	1	SPARE			0				SPACE			36
37	20	1	SPARE	0						SPACE			38
39	20	1	SPARE		0					SPACE			40
41	20	1	SPARE			0				SPACE			42

	A	B	C
PHASE TOTALS COL. #1	9752	8912	2880
PHASE TOTALS COL. #2	26140	15640	16140
PHASE TOTAL VA	35892	24552	19020

TOTAL 3 PHASE CONNECTED 79 KVA 221 AMPS

PANEL CN-2EPP2-1

SUPPLY: [ ] - BOTT. [X] - TOP [X] - LUGS [ ] -MAIN BKR. TYPE: [ ] - 3P3W [X] - 3P4W [X] - WITH GRD. BAR MAINS: 225 A 22000 A.I.C.

[ ] - LTG. [X] - RECEPT. [X] -POWER NEMA 1

MOUNTING [X] -SURFACE [ ] - FLUSH [ ] -COLUMN

VOLTAGE: [X] -120 / 208 [ ] -277 / 480 [ ] 480 /

150 A. MAIN BKR. WITH: [ ] - SHUNT TRIP [ ] - ADJ. TRIP [ ] -G.F.P.

CKT. NO.	TRIP	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	CKT. NO.
1	20	1	RECEPTS RM 2-6-61	600			0			SPARE	1	20	2
3	20	1	RECEPTS RM 2-6-61		600			0		SPARE	1	20	4
5	20	1	RECEPTS RM 2-6-61			600			0	SPARE	1	20	6
7	20	1	RECEPTS RM 2-6-61	600			0			SPARE	1	20	8
9	20	1	SPARE		0			0		SPARE	1	20	10
11	20	1	SPARE			0			0	SPARE	1	20	12
13	20	1	SPARE	0			0			SPARE	1	20	14
15	20	1	SPARE		0			0		SPARE	1	20	16
17	20	1	SPARE			0			0	SPARE	1	20	18
19	20	1	SPARE	0			0			SPARE	1	20	20
21	20	1	SPARE		0			0		SPARE	1	20	22
23	20	1	SPARE			0			0	SPARE	1	20	24
25	20	1	SPARE	0			0			SPARE	1	20	26
27	20	1	SPARE		0			0		SPARE	1	20	28
29	30	1	RM 2-6-60 BEOWULF RACK			3000			0	SPARE	1	20	30
31	30	1	RM 2-6-60 BEOWULF RACK	3000			800			4 MECH DDC'S ON ROOF	1	20	32
33	30	1	RM 2-6-60 BEOWULF RACK		3000			1000		TEL CLOSETS PAGING AMPS	1	20	34
35	30	1	RM 2-6-60 BEOWULF RACK			3000			3000	RM 3-6-33 DATA RACK	1	30	36
37	30	1	RM 2-6-61 FIBER RACK	3000			3000			RM 2-6-33 DATA RACK	1	30	38
39	30	1	RM 2-6-61 FIBER RACK		3000			3000		RM 1-6-33 DATA RACK	1	30	40
41	30	1	RM 2-6-61 SERVER RACK			3000			3000	RM B1-6-33 DATA RACK	1	30	42

	A	B	C
PHASE TOTALS COL. #1	7200	6600	9600
PHASE TOTALS COL. #2	3800	4000	6000
PHASE TOTAL VA	11000	10600	15600

TOTAL 3 PHASE CONNECTED 37 KVA 103 AMPS

KEY SCHEDULE

CN-2EPPC-1	CN-2EP4-1	
CN-2EPPC-2	CN-2EPP2-1	

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CHANGE CONTROL SYSTEM ______
ENGINEERING PROCEDURE ______

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				CERTFIED FOR CONSTRUCTION 12/9/02	CR	VGS			CLG	1/03	JS	1/03	LLH	1/03			VGS	106009	

REVISION OR ISSUE PURPOSE — REVISION APPROVALS

SQUAD CHECK: RZ ST; AW CV; BWJ EC; AK EE; IM EM; DM IE; – M; BWJ PD; – SE; TW AR

RPE: VICTOR G. STEFFEN, REGISTERED ENGINEER, No. 00106009, STATE OF TENNESSEE, 1-23-03. REV. 0 DATE 12/9/02

DRAWING APPROVALS		
DSN	C. RUNNG	12/09/02
DRW	L. MAKOVSKY	12/09/02
CHK	V. STEFFEN	12/09/02
DEPT		
PE	CLG	1/24/03
PJ	JS	1/23/03
REQ	L L Horton	1/24/03
UTB		

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PROJECT NAME:
CENTER FOR NANOPHASE MATERIALS SCIENCES
PANELBOARD SCHEDULES CN-SS2

1	48	49	50	PLANT	BLDG	FL	SH.	OF	TYPE	CLASS
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51	52	53	A/E DRAWING NUMBER:	REV
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