

PANEL NAME:		MDP		NUMBER OF PHASES:		3		PROJECT NAME: NAVY CALIBRATION LAB								
VOLTAGE:		480Y/277		NEUTRAL BUS?		Y		PROJECT NUMBER: 1734								
BUS SIZE (AMPS):		600		GROUND BAR?		Y		DATE: 10/27/2009								
MAIN CIRCUIT BREAKER SIZE:		600		MOUNTING:		SURFACE										
SHORT CIRCUIT CURRENT RATING (AMPS):		14 KAIC		FEED-THRU LUGS?		N										
AVAILABLE SHORT CIRCUIT CURRENT		11.6 KAIC		OTHER OPTIONS:												
SECTION 1																
ITEM	AMP RATING	# POLES	CKT #	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	AMP RATING	ITEM			
1	PANEL HM	200	3	1	A	B	C	A	B	C	2	3	250	CHILLER #1		
3				3	35,174			60,025			60,025					
5				5	35,174			60,025			60,025					
7	PANEL HLI	125	3	7	11,794			30,240			30,240	8	3	225	PANEL HD-1A	
9				9	11,794			30,240			30,240	10				
11				11				30,240			30,240	12				
13	45 KVA TRANSFORMER - PANEL LLI	90	3	13	13,322							14	3	100	PROVISION	
15	PROVISION			15	13,322							16			PROVISION	
17	PROVISION			17				13,322				18			PROVISION	
19	PROVISION	100	3	19								20	3	100	PROVISION	
21	PROVISION			21								22			PROVISION	
23	PROVISION			23								24			PROVISION	
25	PROVISION	125	3	25								26	3	125	PROVISION	
27	PROVISION			27								28			PROVISION	
29	PROVISION			29								30			PROVISION	
31	PROVISION	125	3	31								32	3	125	PROVISION	
33	PROVISION			33								34			PROVISION	
35	PROVISION			35								36			PROVISION	
37	PROVISION	100	3	37								38	3	100	PROVISION	
39	PROVISION			39								40			PROVISION	
41	PROVISION			41								42			PROVISION	
				6.03E-04	60290.17	60290.17		90265	90265		90265					
TOTAL CONNECTED LOAD (VA):				451666	LOAD DIVERSITY DEMAND			NOTES								
PHASE A LOADING (VA):				150555	1 LIGHTS			28,306			1.25			35382.5		
PHASE B LOADING (VA):				150555	2 RECEPT <= 10KVA			10,000			1.00			10000		
PHASE C LOADING (VA):				150555	3 CHILLER AC			181,863			1.00			181863		
SUB-FEED LOADING (VA):				0	4 FIXED EQ.			37,676			0.50			28257		
TOTAL CALCULATED LOAD (VA):				401082	5 AHUS			39,906			1.00			39906		
TOTAL CONNECTED LOAD (A):				582	6 PUMPS			27,828			0.50			13914		
TOTAL CALCULATED LOAD (A):				482.4261	7 EDH FANS			400			1.00			400		
					8 REPAIR BENCHES			84,650			0.50			42325		
					9 WATER HEATERS			18,000			0.75			13500		
					10 STEAM GEN			15,999			1.00			15999		

PANEL NAME:		HL1		NUMBER OF PHASES:		3		PROJECT NAME: NAVY CALIBRATION LAB								
VOLTAGE:		480Y/277		NEUTRAL BUS?		Y		PROJECT NUMBER: 1734								
BUS SIZE (AMPS):		125		GROUND BAR?		Y		DATE: 10/27/2009								
MAIN CIRCUIT BREAKER SIZE:		ML0		MOUNTING:		SURFACE										
SHORT CIRCUIT CURRENT RATING (AMPS):		14 KAIC		FEED-THRU LUGS?		N										
AVAILABLE SHORT CIRCUIT CURRENT		11.1 KAIC		OTHER OPTIONS:												
SECTION 1																
ITEM	AMP RATING	# POLES	CKT #	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	AMP RATING	ITEM			
1	LIGHTS-CORRIDORS 101, 102, 103, 112	20	1	1	A	B	C	A	B	C	2	1	20	SITE LIGHTING		
3	LIGHTS-123, ROOMS 104-110	20	1	3	2,530			2,890			1,670		3	20	SITE LIGHTING	
5	LIGHTS-121 CAL WORK AREA	20	1	5				3,024			1,565		5	20	EXTERIOR WALL FIXTURES	
7	LIGHTS-RMS 115- 119	20	1	7	3,992								7	20	SPARE	
9	LIGHTS-111	20	1	9				3,248					9	20	SPARE	
11	LIGHTS-111	20	1	11							4,032		11	20	SPARE	
13	LIGHTS-ROOMS 122, 122A,B, 114, 114A	20	1	13	3,960								13	20	PROVISION	
15	PROVISION			15									16		PROVISION	
17	PROVISION			17									18		PROVISION	
19	PROVISION			19									20	1	20	PROVISION
21	PROVISION			21									22	1	20	PROVISION
23	PROVISION			23									24	1	20	PROVISION
25	PROVISION			25									26	1	20	PROVISION
27	PROVISION			27									28	1	20	PROVISION
29	PROVISION			29									30	1	20	PROVISION
31	PROVISION			31									32	1	20	PROVISION
33	PROVISION			33									34	1	20	PROVISION
35	PROVISION			35									36	1	20	PROVISION
37	PROVISION			37									38	1	20	PROVISION
39	PROVISION			39									40	1	20	PROVISION
41	PROVISION			41									42	1	20	PROVISION
				10482	6138	7056	1670	1395	1565							
TOTAL CONNECTED LOAD (VA):				28306	LOAD DIVERSITY DEMAND			NOTES								
PHASE A LOADING (VA):				12152	1 LIGHTS			28306			1.00			28306		
PHASE B LOADING (VA):				7533	2 RECEPT <= 10KVA			0			0.50			0		
PHASE C LOADING (VA):				8621	3 RECEPT > 10KVA			0			1.00			0		
SUB-FEED LOADING (VA):				0	4 AHUS			0			1.00			0		
TOTAL CALCULATED LOAD (VA):				35383	5 PUMPS			0			1.00			0		
TOTAL CONNECTED LOAD (A):				34	6 WATER HEATER			0			1.00			0		
TOTAL CALCULATED LOAD (A):				42.559	7 EDH FANS			0			1.00			0		
					8 REPAIR BENCHES			0			1.00			0		
					9 WATER HEATERS			0			1.00			0		
					10 STEAM GEN			0			1.00			0		

PANEL NAME:		HD1A		NUMBER OF PHASES:		3		PROJECT NAME: NAVY CALIBRATION LAB								
VOLTAGE:		480Y/277		NEUTRAL BUS?		Y		PROJECT NUMBER: 1734								
BUS SIZE (AMPS):		225		GROUND BAR?		Y		DATE: 10/27/2009								
MAIN CIRCUIT BREAKER SIZE:		ML0		MOUNTING:		SURFACE										
SHORT CIRCUIT CURRENT RATING (AMPS):		14 KAIC		FEED-THRU LUGS?		N										
AVAILABLE SHORT CIRCUIT CURRENT		9.5 KAIC		OTHER OPTIONS:												
SECTION 1																
ITEM	AMP RATING	# POLES	CKT #	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	AMP RATING	ITEM			
1	28 VOLT DC GENERATOR	40	3	1	A	B	C	A	B	C	2	3	110	75 KVA TRANSFORMER (PANEL LLI)		
3				3	1,317			1,317			15,923		3	110		
5				5				1,317			15,923		5	110		
7	PROVISION			7							13,000		8	3	125	90KW 400 HZ GENERATOR
9	PROVISION			9							13,000		10			PROVISION
11	PROVISION			11									12			PROVISION
13	PROVISION			13									14			PROVISION
15	PROVISION			15									16			PROVISION
17	PROVISION			17									18			PROVISION
19	PROVISION			19									20			PROVISION
21	PROVISION			21									22			PROVISION
23	PROVISION			23									24			PROVISION
25	PROVISION			25									26			PROVISION
27	PROVISION			27									28			PROVISION
29	PROVISION			29									30			PROVISION
31	PROVISION			31									32			PROVISION
33	PROVISION			33									34			PROVISION
35	PROVISION			35									36			PROVISION
37	PROVISION			37									38			PROVISION
39	PROVISION			39									40			PROVISION
41	PROVISION			41									42			PROVISION
				1316.67	1316.67	1316.67		28923.3	28923.3		28923.3					
TOTAL CONNECTED LOAD (VA):				90720	LOAD DIVERSITY DEMAND			NOTES								
PHASE A LOADING (VA):				30240	1 LIGHTS			0			1.00			0		
PHASE B LOADING (VA):				30240	2 RECEPT <= 10KVA			0			1.00			0		
PHASE C LOADING (VA):				30240	3 AC			0			1.00			0		
SUB-FEED LOADING (VA):				0	4 AHUS			0			1.00			0		
TOTAL CALCULATED LOAD (VA):				90720	5 PANEL LLI			47770			1.00			47770		
TOTAL CONNECTED LOAD (A):				109	6 400 HZ GENERATOR			39000			1.00			39000		
TOTAL CALCULATED LOAD (A):				109.12	7 28 VOLT GENERATOR			3950			1.00			3950		
					8 WATER HEATER			0			1.00			0		
					9 WATER HEATERS			0			1.00			0		
					10 STEAM GEN			0			1.00			0		

PANEL NAME:		LM		NUMBER OF PHASES:		3		PROJECT NAME: NAVY CALIBRATION LAB				
VOLTAGE:		208Y/120		NEUTRAL BUS?		Y		PROJECT NUMBER: 1734				
BUS SIZE (AMPS):		100		GROUND BAR?		Y		DATE: 10/27/2009				
MAIN CIRCUIT BREAKER SIZE:		100		MOUNTING:		SURFACE						
SHORT CIRCUIT CURRENT RATING (AMPS):		10 KAIC		FEED-THRU LUGS?		N						
AVAILABLE SHORT CIRCUIT CURRENT		2.1 KAIC		OTHER OPTIONS:								
SECTION 1												
ITEM	AMP RATING	# POLES	CKT #	LEFT LOADING			RIGHT LOADING			CKT #	# POLES	