

**PANEL 'DOSL7A'**

VOLTAGE, PHASE, WIRE AND AIC RATING: 120/208V, 3 PHASE, 4 WIRE, 18K AIC  
MOUNTING: SURFACE MOUNT  
PHASE BUSSING AND MAINS: 250A MAINS WITH 250A MAIN BREAKER (ET-LSI)  
NEUTRAL AND GROUND BAR: NEUTRAL 100%, AND GROUND BAR  
OTHER: IMAX 32" WIDE

LOAD IN KVA			DESCRIPTION	TRIP	CKT	TRIP	DESCRIPTION	LOAD IN KVA			
A	B	C						A	B	C	
0.00	---	---	'SPD' AND METER	3P-60	1	2	20	SPARE	0.00	---	---
---	0.00	---	NOTE #3	---	3	4	20	SPARE	---	0.00	---
---	---	0.00	---	---	5	6	20	SPARE	---	---	0.00
0.00	---	---	SPARE	---	7	8	20	SPARE	0.00	---	---
---	0.00	---	SPARE	---	9	10	20	SPARE	---	0.00	---
---	---	0.00	SPARE	---	11	12	20	SPARE	---	---	0.00
1.8	---	---	PANEL 'OS7102'	3P-250 F	13	14	3P-250 F	PANEL 'OS7119'	1.38	---	---
---	1.38	---	ET-LSI	3P-70 T	15	16	3P-70 T	---	---	1.38	---
---	---	2.40	---	ET-LSI	17	18	ET-LSI	---	---	---	1.4
9.18	---	---	PANEL 'OS7104'	3P-250 F	19	20	3P-250 F	PANEL 'OS7122'	1.62	---	---
---	13.37	---	ET-LSI	3P-125 T	21	22	3P-70 T	---	---	0.78	---
---	---	11.67	---	ET-LSI	23	24	ET-LSI	---	---	---	0.18
1.98	---	---	PANEL 'OS7105'	3P-250 F	25	26	3P-250 F	PANEL 'OS7131'	1.38	---	---
---	0.96	---	ET-LSI	3P-70 T	27	28	3P-70 T	---	---	1.50	---
---	---	1.08	---	ET-LSI	29	30	ET-LSI	---	---	---	0.78
1.98	---	---	PANEL 'OS7115'	3P-250 F	31	32	3P-250 F	PANEL 'OS7135'	3.76	---	---
---	1.98	---	ET-LSI	3P-70 T	33	34	3P-70 T	---	---	1.86	---
---	---	0.18	---	ET-LSI	35	36	ET-LSI	---	---	---	4.52
0.00	---	---	SPARE	3P-250 F	37	38	3P-250 F	SPARE	0.00	---	---
---	0.00	---	---	3P-70 T	39	40	3P-70 T	---	---	0.00	---
---	---	0.00	---	ET-LSI	41	42	ET-LSI	---	---	---	0.00

NOTES  
#1 PROVIDE PRINTED LABEL ON INSIDE OF DOOR STATING 'FOR OPTIONAL STANDBY LOADS ONLY (PER NEC 702)'  
#2 MAIN BREAKER AND 'ET-LSI' BRANCH BREAKERS SHALL BE SQUARE 'JDW' MISSION CRITICAL TYPE BRKR OR APPROVED EQUAL PER SPECS.  
#3 PROVIDE CONTROL WIRE TERMINAL KIT FOR METER CONNECTION TO BREAKER.

TOTAL CONNECTED LOAD			
PHASE	A	B	C
KVA PER PHASE	23.1	23.2	22.2
AMPS PER PHASE	192	183	185
TOTAL CONNECTED KVA	68.5		
DEMAND KVA / AMPS	52.6	/	146
FEEDER AMPERAGE	250		

**PANEL 'OS7102'**

VOLTAGE, PHASE, WIRE AND AIC RATING: 120/208V, 3 PHASE, 4 WIRE, 10K AIC  
MOUNTING: SURFACE MOUNT  
PHASE BUSSING AND MAINS: 100A MAINS WITH 100A MAIN LUGS ONLY  
NEUTRAL AND GROUND BAR: NEUTRAL 100%, AND GROUND BAR  
OTHER: 9"W X 6"D, SINGLE ROW BRKRS

LOAD IN KVA			DESCRIPTION	TRIP	CKT	TRIP	DESCRIPTION	LOAD IN KVA			
A	B	C						A	B	C	
0.00	---	---	SPARE	20	1	2	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	3	4	20	SPARE	---	0.00	---
---	---	0.18	RECEPTACLES	20	5	6	20	RECEPTACLES	---	---	0.18
0.60	---	---	RECEPTACLES	20	7	8	20	RECEPTACLES	0.60	---	---
---	0.60	---	RECEPTACLES	20	9	10	20	RECEPTACLES	---	0.60	---
---	---	0.60	RECEPTACLES	20	11	12	20	RECEPTACLES	---	---	0.60
0.60	---	---	RECEPTACLES	20	13	14	20	RECEPTACLES	0.60	---	---
---	0.60	---	RECEPTACLES	20	15	16	20	RECEPTACLES	---	0.60	---
---	---	1.44	RECEPTACLES	20	17	18	20	RECEPTACLES	---	---	1.44
0.60	---	---	RECEPTACLES	20	19	20	20	RECEPTACLES	0.60	---	---
---	0.18	---	RECEPTACLES	20	21	22	20	RECEPTACLES	---	0.18	---
---	---	0.18	RECEPTACLES	20	23	24	20	RECEPTACLES	---	---	0.18
0.00	---	---	SPARE	20	25	26	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	27	28	20	SPARE	---	0.00	---
---	---	0.00	SPARE	20	29	30	20	SPARE	---	---	0.00
0.00	---	---	SPARE	20	31	32	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	33	34	20	SPARE	---	0.00	---
---	---	0.00	SPARE	20	35	36	20	SPARE	---	---	0.00
0.00	---	---	SPARE	20	37	38	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	39	40	20	SPARE	---	0.00	---
0.00	---	---	SPACE	20	41	42	20	SPACE	0.00	---	---
---	0.00	---	SPACE	20	43	44	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	45	46	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	47	48	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	49	50	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	51	52	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	53	54	20	SPACE	---	0.00	---
0.00	---	---	SPACE	20	55	56	20	SPACE	0.00	---	---
---	0.00	---	SPACE	20	57	58	20	SPACE	---	0.00	---
---	0.00	---	SPACE	20	59	60	20	SPACE	---	0.00	---

NOTES  
#1 PROVIDE PRINTED LABEL ON INSIDE OF DOOR STATING 'FOR OPTIONAL STANDBY LOADS ONLY (PER NEC 702) IN ROOM 7102 ONLY.'  
#2 PROVIDE PANEL TROUGH/SKIRT TO ABOVE FINISHED CEILING.

TOTAL CONNECTED LOAD			
PHASE	A	B	C
KVA PER PHASE	1.8	2.4	2.4
AMPS PER PHASE	15	12	20
TOTAL CONNECTED KVA	5.6		
DEMAND KVA / AMPS	4.5	/	13
FEEDER AMPERAGE	70		

**ELECTRICAL PANEL NOTES**  
--ELECTRICAL PANEL NOTES APPLY TO ALL PANELS AND ALL SHEETS WITH PANEL SCHEDULES--  
1- BREAKERS AND CIRCUITS IN NEW PANELS SHALL BE ARRANGED AS SHOWN IN PANEL SCHEDULES AND AS CIRCUITED ON DRAWINGS UNLESS THE MANUFACTURING PROCESS OR SPECIALTY BREAKER/ACCESSORY DICTATES OTHERWISE. LEAVING BREAKERS AND CIRCUITS 'AS SHIPPED' FROM MANUFACTURER FOR CONVENIENCE WILL NOT BE ACCEPTED.  
2- ALL SPARE BREAKERS SHALL BE LEFT IN THE 'OFF' POSITION.  
3- PANELS SHALL BE MOUNTED MINIMUM 6' ABOVE THE FLOOR TO THE BOTTOM OF THE PANEL UNLESS THE PANEL IS 91" OR DOING SO WILL RESULT IN OVERCURRENT PROTECTION HANDLES MOUNTED ABOVE 6'-6" ABOVE THE FLOOR. ONLY SWITCHBOARDS, MOTOR CONTROL CENTERS AND 91" HIGH PANELS MAY BE MOUNTED DIRECTLY ON THE FLOOR.  
4- WHERE BRANCH CIRCUIT IN PANEL FEEDS SURFACE RACEWAY, LIST 'WIREWAY' IN THE PANEL DIRECTORY IN LIEU OF 'RECEPTACLES'.  
5- THE CONTRACTOR SHALL NOTE THE ROOM NUMBER OF THE LOAD FOR EACH BRANCH CIRCUIT IN THE PANEL DIRECTORY. WHERE THE PANEL SERVES ONLY ONE ROOM THE CONTRACTOR MAY MAKE A NOTE ON THE PANEL DIRECTORY THAT ALL LOADS ARE IN ROOM 'XXXX'.  
6- PANEL SCHEDULE TRIP COLUMN PREFIX OR OTHER INDICATION OR MAIN BREAKER ABBREVIATIONS ARE AS FOLLOWS:  
3P-250 F = 3 POLE, 250A FRAME BREAKER  
3P-125 T = 3 POLE, 125A TRIP IN BREAKER FRAME INDICATED  
GF = GROUND FAULT TYPE BREAKER  
ET-LSI = ELECTRONIC TRIP, ADJUSTABLE WITH LONG TIME, SHORT TIME AND INSTANTANEOUS TRIP SETTINGS  
7- LEGEND FOR EXISTING PANELS  
BOLD TEXT = BOLD TEXT IN EXISTING PANEL SCHEDULES INDICATES NEW WORK  
N (IN TRIP COLUMN) = INDICATES TO PROVIDE NEW BREAKER IN EXISTING SPACE  
(EX LOAD) = RECONNECT EXISTING LOADS TO NEW BREAKER/PANEL

**ALTERNATE #2**  
CIRCUIT BREAKERS IN PANELS 'DOSL7A' AND 'DOSL8A'--  
BASE TYPE MAIN AND BRANCH BREAKERS INDICATED AS 'ET-LSI' IN PANELS 'DOSL7A', 'DOSL8A' AND 'EH4C' SHALL BE MISSION CRITICAL TYPE THAT PROVIDE SELECTIVE COORDINATION BASED ON MANUFACTURER'S SELECTIVE COORDINATION TABLES. SEE PANEL SCHEDULES AND SPECIFICATIONS SECTION 26 2416-PANELBOARDS FOR REQUIRED BREAKER TYPES AND SPECIFIC BREAKER REQUIREMENTS.  
ALTERNATE: IN LIEU OF MISSION CRITICAL TYPE MAIN AND BRANCH BREAKERS INDICATED IN PANELS 'DOSL7A', 'DOSL8A' AND 'EH4C' PROVIDE STANDARD ELECTRONIC TRIP 'ET-LSI' BREAKER SUITABLE FOR THE TRIP RATING AS INDICATED SUCH AS SQUARE 'D' 'JD' OR 'HD', OR APPROVED EQUAL PER SPECS.

**PANEL 'DOSL8A'**

VOLTAGE, PHASE, WIRE AND AIC RATING: 120/208V, 3 PHASE, 4 WIRE, 18K AIC  
MOUNTING: SURFACE MOUNT  
PHASE BUSSING AND MAINS: 250A MAINS WITH 250A MAIN BREAKER (ET-LSI)  
NEUTRAL AND GROUND BAR: NEUTRAL 100%, AND GROUND BAR  
OTHER: IMAX 32" WIDE

LOAD IN KVA			DESCRIPTION	TRIP	CKT	TRIP	DESCRIPTION	LOAD IN KVA			
A	B	C						A	B	C	
0.00	---	---	'SPD' AND METER	3P-60	1	2	20	SPARE	0.00	---	---
---	0.00	---	NOTE #3	---	3	4	20	SPARE	---	0.00	---
---	---	0.00	---	---	5	6	20	SPARE	---	---	0.00
0.00	---	---	SPACE	---	7	8	20	SPACE	0.00	---	---
---	0.00	---	SPACE	---	9	10	20	SPACE	---	0.00	---
---	---	0.00	SPACE	---	11	12	20	SPACE	---	---	0.00
7.39	---	---	PANEL 'OS8104'	3P-250 F	13	14	3P-250 F	PANEL 'OS8104'	0.00	---	---
---	8.28	---	ET-LSI	3P-125 T	15	16	3P-70 T	---	---	0.00	---
---	---	8.81	---	ET-LSI	17	18	ET-LSI	---	---	---	0.00
2.16	---	---	PANEL 'OS8105'	3P-250 F	19	20	3P-250 F	PANEL 'OS8115'	0.90	---	---
---	1.58	---	ET-LSI	3P-70 T	21	22	3P-70 T	---	---	0.72	---
---	---	1.08	---	ET-LSI	23	24	ET-LSI	---	---	---	0.18
2.16	---	---	PANEL 'OS8113'	3P-250 F	25	26	3P-250 F	PANEL 'OS8117'	0.36	---	---
---	1.56	---	ET-LSI	3P-70 T	27	28	3P-70 T	---	---	1.62	---
---	---	1.08	---	ET-LSI	29	30	ET-LSI	---	---	---	1.44
0.00	---	---	SPARE	3P-250 F	31	32	3P-250 F	PANEL 'OS8133'	3.90	---	---
---	0.00	---	---	3P-70 T	33	34	3P-70 T	---	---	2.70	---
---	---	0.00	---	ET-LSI	35	36	ET-LSI	---	---	---	3.30
0.00	---	---	SPARE	3P-250 F	37	38	3P-250 F	SPARE	0.00	---	---
---	0.00	---	---	3P-70 T	39	40	3P-70 T	---	---	0.00	---
---	---	0.00	---	ET-LSI	41	42	ET-LSI	---	---	---	0.00

NOTES  
#1 PROVIDE PRINTED LABEL ON INSIDE OF DOOR STATING 'FOR OPTIONAL STANDBY LOADS ONLY (PER NEC 702)'  
#2 MAIN BREAKER AND 'ET-LSI' BRANCH BREAKERS SHALL BE SQUARE 'JDW' MISSION CRITICAL TYPE BRKR OR APPROVED EQUAL PER SPECS.  
#3 PROVIDE CONTROL WIRE TERMINAL KIT FOR METER CONNECTION TO BREAKER.

TOTAL CONNECTED LOAD			
PHASE	A	B	C
KVA PER PHASE	16.9	16.4	15.9
AMPS PER PHASE	141	137	132
TOTAL CONNECTED KVA	49.2		
DEMAND KVA / AMPS	38.1	/	106
FEEDER AMPERAGE	250		

**PANEL 'OS7104'**

VOLTAGE, PHASE, WIRE AND AIC RATING: 120/208V, 3 PHASE, 4 WIRE, 10K AIC  
MOUNTING: SURFACE MOUNT  
PHASE BUSSING AND MAINS: 225A MAINS WITH 225A MAIN LUGS ONLY  
NEUTRAL AND GROUND BAR: NEUTRAL 100%, AND GROUND BAR  
OTHER: ---

LOAD IN KVA			DESCRIPTION	TRIP	CKT	TRIP	DESCRIPTION	LOAD IN KVA			
A	B	C						A	B	C	
0.00	---	---	SPARE	20	2	2	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	3	4	20	SPARE	---	0.00	---
---	---	0.00	SPARE	20	5	6	20	RECEPTACLES	---	---	0.18
0.43	---	---	RECEPTACLES	20	7	8	20	RECEPTACLES	0.60	---	---
---	0.43	---	RECEPTACLES	20	9	10	20	RECEPTACLES	---	0.60	---
---	---	0.43	RECEPTACLES	20	11	12	20	RECEPTACLES	---	---	0.60
0.43	---	---	RECEPTACLES	20	13	14	20	RECEPTACLES	0.18	---	---
---	0.43	---	RECEPTACLES	20	15	16	30	RECEPTACLES	---	2.88	---
---	---	0.43	RECEPTACLES	20	17	18	2P-20	RECEPTACLE	---	---	1.25
0.43	---	---	RECEPTACLES	20	19	20	20	RECEPTACLES	1.25	---	---
---	0.43	---	RECEPTACLES	20	21	22	2P-20	RECEPTACLE	---	1.25	---
---	---	0.43	RECEPTACLES	20	23	24	20	RECEPTACLES	---	---	1.25
0.43	---	---	RECEPTACLES	20	25	26	2P-30	RECEPTACLE	2.50	---	---
---	0.43	---	RECEPTACLES	20	27	28	20	RECEPTACLES	---	2.50	---
---	---	0.43	RECEPTACLES	20	29	30	2P-30	RECEPTACLE	---	---	2.50
0.43	---	---	RECEPTACLES	20	31	32	20	RECEPTACLES	2.50	---	---
---	0.43	---	RECEPTACLES	20	33	34	2P-30	RECEPTACLE	---	---	2.50
---	---	0.43	RECEPTACLES	20	35	36	20	RECEPTACLES	---	---	2.50
0.00	---	---	SPARE	20	37	38	20	SPARE	0.00	---	---
---	0.00	---	SPARE	20	39	40	20	SPARE	---	0.00	---
---	---	0.00	SPARE	20	41	42	20	SPARE	---	---	0.00

NOTES  
#1 PROVIDE PRINTED LABEL ON INSIDE OF DOOR STATING 'FOR OPTIONAL STANDBY LOADS ONLY (PER NEC 702) IN ROOM 7104 ONLY.'  
#2 PROVIDE PANEL TROUGH/SKIRT TO ABOVE FINISHED CEILING.  
#3 30A BREAKER CIRCUITRY SHALL BE MINIMUM 2 #10, 1 #10EG

TOTAL CONNECTED LOAD			
PHASE	A	B	C
KVA PER PHASE	9.2	13.4	11.7
AMPS PER PHASE	77	111	97
TOTAL CONNECTED KVA	34.2		
DEMAND KVA / AMPS	26.9	/	75
FEEDER AMPERAGE	125		

**PANEL 'EH4C'**

VOLTAGE, PHASE, WIRE AND AIC RATING: 277/480V, 3 PHASE, 4 WIRE, 35K AIC  
MOUNTING: SURFACE MOUNT  
PHASE BUSSING AND MAINS: 800A MAINS WITH 800A MAIN LUGS ONLY  
NEUTRAL AND GROUND BAR: NEUTRAL 100%, AND GROUND BAR  
OTHER: 26"W X 10"D, SINGLE ROW BRKRS

LOAD IN KVA			DESCRIPTION	TRIP	CKT	TRIP	DESCRIPTION	LOAD IN KVA			
A	B	C						A	B	C	
0.53	---	---	LIGHTS (EX LOAD)	20	1	2	20	LIGHTS (EX LOAD)	0.00	---	---
---	1.85	---	LIGHTS (EX LOAD)	20	3	4	20	LIGHTS (EX LOAD)	---	0.00	---
---	---	0.00	SPARE	20	5	6	20	SPARE	---	---	0.00
0.00	---	---	SPARE	20	7	8	20	SPARE	0.00	---	---
---	0.00	---	SPARE								