Table 8.3-1(a)

SEQUENCE OF EVENTS IN THE AUTOMATIC
APPLICATION OF EMERGENCY AC LOADS ON LOCA[1]
AND LOOP

EVENT	TIME (sec)
Signal to start diesel	0
Diesel ready to load; start one RHR pump motor	10
Apply power to 440 V auxiliaries and MOVs	13
Start one core spray pump motor	17
Start one ESW pump motor	55
Control room chiller	177
Reactor building recirculation fan	193

(1) This sequence applies to one diesel and its associated loads. The other diesels have a similar sequence and load.

Table 8.3-1(b)

SEQUENCE OF EVENTS IN THE AUTOMATIC
APPLICATION OF EMERGENCY AC LOADS ON LOCA
WITH OFFSITE POWER AVAILABLE[1]

EVENTS	TIME (sec)
Start RHR pumps C & D	0
Apply power to 440 V auxiliaries and MOVs	3.5
Start RHR pumps A & B	5
Start core spray pumps A & C	10
Start core spray pumps B & D	15
Start 4 ESW pumps	55
Control room chillers	167
Reactor buildings recirculation fans	183.5

(1) Diesel is started and remains on standby when offsite power is available.

TABLE 8.3-2 (Page 1 of 2)
SUMMARY OF LOADING
DIESEL GENERATOR AND EMERGENCY BUSES
SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS

TABLE NO.	DESCRIPTION	MAXIMUM LOADING OF ANY ONE DIESEL GENERATOR (kW) 0 - 10 MIN	10 MIN - 1 HOUR	1 HOUR and LONGER
8.3 - 3	Assignment of safeguard and selected non-safeguard loads to diesel generators and emergency buses Both units in operation Unit 1 DBA; Unit 2 spurious LOCA	--	--	--
8.3 - 9	All D/G in service	2394	1910	1910
8.3 - 10	D11 D/G out-of -service	2397	2165	2165
8.3 - 11	D12 D/G out-of-service	2394	2222	2222
8.3 - 12	D13 D/G out-of-service	2394	1910	1910
8.3 - 13	D14 D/G out-of-service	2394	2190	2190
8.3 - 14	D21 D/G out-of-service	2394	2062	2062
8.3 - 15	D22 D/G out-of-service	2394	1846	1846
8.3 - 16	D23 D/G out-of-service	2394	2048	2048
8.3 - 17	D24 D/G out-of-service	2394	1824	1824

The above loadings are based on the minimum required engineered safeguard and selected non-safeguard laods for the following situation:

* Unit 1 DBA with a spurious LOCA in Unit 2 for the 0 -10 minute period following by an emergency shutdown of Unit 2.

TABLE 8.3-2 (Cont'd)

The case for a Unit 2 DBA is not tabulated. Due to the similarity in loading between Unit 1 and Unit 2, it has been determined that, for a Unit 2 DBA with a spurious LOCA and ESD in Unit 1, Unit 2 data on the following tables are conservative for Unit 1 and Unit 1 data are conservative for Unit 2.

All loads in the 0-10 minute period are automatically applied. Beyond 10 minutes, the major loads are manually connected or disconnected.

Nonsafeguard loads are tripped by the LOCA signal and may be manually added after the 0-10 minute period as permitted by the available capacity of the diesel generators (limited by fuel consumption) and as indicated in the table below.

The required minimum operation of ECCS pumps indicated is shown below:

	DESIGN BASIS ACCIDENT			EMERGENCY SHUTDOWN		
	0-10 min	10 min - 1 hr	Beyond 1 hr	0-10 min	10 min - 1 hr	Beyond 1 hr
RHR pumps	3	1	1	0	1	1
CS pumps	2	2	2	0	0	0
RHRSW pumps	0	1	1	0	1	1

Any combination of three-out-of-four divisions (EDGs) is acceptable for a single failure. However, the ECCS requirements (as stated in paragraph 6.3.1.1.2), an EDG operable configuration of two-out-of-four is also acceptable.

TABLE 8.3 – 3

(PAGE 1 OF 6)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			CAPACITY EACH	RATED HP EACH	OPER KW EACH	STARTUP MODE & OPERATING							
										UNIT 1 or UNIT 2 DBA STANDBY				UNIT 1 or UNIT 2 EMERGENCY SHUTDOWN (2) STANDBY			
				UNIT 1	COMMON	UNIT 2				AUTO	AUTO	MAN	MAN	AUTO	AUTO	MAN	MAN
01	RHR PUMP	(9)	P202	4	0	4	1/3	1250	993	4	0	0	0	0	0	3	1
02	CORE SPRAY PUMP		P206	4	0	4	1/2	600	529	4	0	0	0	0	0	0	0
03	RHR SERVICE WATER PUMP	*	P506	0	4	0	F	700	519	0	0	0	2	0	0	0	2
04	ESW PUMP	*	P548	0	4	0	1/2	500	389	4	0	0	0	4	0	0	0
05	125V BATTERY CHARGER		D103	4 & 2	0	4 & 2	1/6	0	25 & 9	6	0	0	0	6	0	0	0
06	DRYWELL COOLER FAN		V212	16	0	16	1/8	30	20	8	8	0	0	8	8	0	0
07	DG ROOM VENT FAN		V512	8	0	8	1/2	20	15	4	4	0	0	4	4	0	0
08	RHR ROOM COOLING UNIT		V210	8	0	8	1/2	20	16	4	4	0	0	4	4	0	0
09	CORE SPRAY ROOM COOLING UNIT		V211	8	0	8	F	10	7 & 8	4	4	0	0	4	4	0	0
10	HPCI ROOM COOLING UNIT		V209	2	0	2	F	15	10	1	1	0	0	1	1	0	0
11	RCIC ROOM COOLING UNIT		V208	2	0	2	F	5	4	1	1	0	0	1	1	0	0
12	INSTRUMENT AC POWER SUPPLY		Y101	4	0	4	1/4	0	11 & 12	4	0	0	0	4	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y102	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y103	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	DG START AIR COMPRESSOR	o	K513	8	0	8	F	20	7	0	0	4	4	4	4	0	0
14	DG FUEL OIL TRANSFER PUMP		P514	4	0	4	F	1-1/2	1	0	0	0	4	0	0	0	4
15	SGTS HEATER	*	E188	0	2	0	F	0	44	2	0	0	0	2	0	0	0
16	SGTS ROOM UNIT COOLER	*	V140	0	2	0	F	1	1	1	1	0	0	1	1	0	0
17	SGTS ROOM ACCESS UNIT COOLER	*	V141	0	2	0	F	7-1/2	6	1	1	0	0	1	1	0	0
18	SGTS EXHAUST FAN	*	V163	0	2	0	F	40	32	1	0	0	0	1	0	0	0
19	RERS FAN		V213	2	0	2	F	200	151	1	1	0	0	1	1	0	0
20	HVAC DAMPER POWER		Y206	4	0	4	1/4	0	0	4	0	0	0	4	0	0	0
20	HVAC DAMPER POWER		Y207	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	HVAC DAMPER POWER		Y163	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	HVAC DAMPER POWER		Y164	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	CONTROL ROOM CHILLER	*	K112	0	2	0	F	0	329/330	1	1	0	0	1	1	0	0
22	CONTROL ROOM CHILLER WATER PP	*	P162	0	2	0	F	25	16	1	1	0	0	1	1	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	*	V114	0	2	0	F	38.5	24	1	1	0	0	1	1	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	*	V120	0	2	0	F	20	16	1	1	0	0	1	1	0	0
25	CONTROL ROOM AIR COND UNIT	*	V116	0	2	0	F	40	32	1	1	0	0	1	1	0	0
26	CONTROL ROOM RETURN AIR FAN	*	V121	0	2	0	F	15	12	1	1	0	0	1	1	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	*	V118	0	2	0	F	15	9	1	1	0	0	1	1	0	0
28	AUX EQUIP & COMP RM AREA HTR	* ++	E193	0	2	0	F	0	52	0	0	0	0	1	1	0	0
29	CONTROL ROOM AREA HEATER	* ++	E192	0	2	0	F	0	40	0	0	0	0	1	1	0	0
30	CONT RM FRESH AIR INTAKE HTR	*	E191	0	2	0	F	0	32	0	0	0	0	0	0	0	0
31	SPRAY POND STATION HTG COIL FAN	*	V543	0	4	0	1/2	10	7	2	2	0	0	2	2	0	0
32	SLCS HEATERS	++	S213	1 & 1	0	1 & 1	F	0	8	1	0	0	1	1	0	0	1
33	CONTAINMENT H2 RECOMBINER		S403	2	0	2	F	0	48	0	0	1	1	0	0	1	1
34	CONT'L RM EMER FRESH AIR SPLY FAN	*	V127	0	2	0	F	10	6	1	1	0	0	1	1	0	0
35	CONTROL ROOM CHILLER OIL PUMP	*	P168	0	2	0	F	1-1/2	1	1	1	0	0	1	1	0	0
36	DG AUXILIARIES	o	G501	4	0	4	F	35KVA	14	4	0	0	0	4	0	0	0
37	DELETED																

TABLE 8.3 – 3 (Cont'd) (PAGE 2 OF 6)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON- SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			CAPACITY EACH	RATED HP EACH	OPER KW EACH	STARTUP MODE & OPERATING							
										UNIT 1 or UNIT 2 DBA STANDBY				UNIT 1 or UNIT 2 EMERGENCY SHUTDOWN (2) STANDBY			
				UNIT 1	COMMON	UNIT 2				AUTO	AUTO	MAN	MAN	AUTO	AUTO	MAN	MAN
37	DELETED																
38	DELETED																
39	CRD PUMP	o	P158	2	0	2	F	250	133	0	0	0	0	0	0	1	1
40	DELETED																
41	RECW PUMP	++	P210	2	0	2	F	100	68	0	0	1	1	1	1	0	0
42	TECW	o	P103	2	0	2	F	15	11 & 12	0	0	1	1	1	1	1	0
43	INSTRUMENT AC POWER SUPPLY	o	Y105	4	0	4	1/4	0	0	0	0	0	4	4	0	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y106	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y201	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y202	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	EMERGENCY LIGHTING	o !	MISC	7	6	7	0	0	0	0	0	0	13	0	0	0	13
45	TURBINE GEN BEARING LIFT PUMP	o	P109	9	0	9	1/9	5	36 & 45 (TOTAL)	0	0	0	9	9	0	0	0
46	TURBINE GEN TURNING OIL PP	o	P111	1	0	1	F	40	32	0	0	0	1	1	0	0	0
47	TURBINE GEN TURNING GEAR	o	S103	1	0	1	F	60	48	0	0	0	1	1	0	0	0
48	RFPT GEAR	o	S106	3	0	3	F	1-1/2	1	0	0	0	3	3	0	0	0
49	INSTRUMENT GAS COMPRESSOR	o (12)	K203	2	0	2	F	5	1	0	0	1	1	1	1	0	0
50	INSTRUMENT AIR COMPRESSOR	o	K101	2	0	2	F	100	33	0	0	1	1	1	1	0	0
51	DELETED																
52	OSC XFMR PNLS OOL140 & OOL141	*	X186	0	1	0	0	30	24	0	0	0	1	0	0	0	1
53	TEST ENGINEER'S WORKSHOP	*	X187	0	1	0	0	30	12	0	0	0	1	0	0	0	1
54	NORTH STACK RM ANTENNA SYS XFMR	*	X595	0	1	0	0	15	9	0	0	0	1	0	0	0	1
55	DELETED																
56	CRD REPAIR RM COOLING FAN		V904	0	1	1	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	o	D113	2	0	2	1/2	0	96	0	0	0	2	2	0	0	0
58	FIRE ALARM & P/A	* +	1X5	0	0	0	0	0	12	1	0	0	0	1	0	0	0
59	FUEL POOL COOLING WATER PUMP	o	P211	3	0	3	0	50	32	0	0	1	2	0	0	1	2
60	FUEL POOL SVC WTR BSTR PUMP (7)		P212	3	0	3	0	25	19	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	o	Y501	0	4	0	1/4	0	1	0	0	0	0	2	2	0	0
62	SPRAY POND PP STATION HTG COIL	++ *	E701	0	4	0	1/2	0	96	0	0	0	0	2	2	0	0
63	SGTS RM VENT EXHAUST FAN	o *(13)	V131	0	2	0	0	10	7	0	0	1	1	1	1	0	0
64	SECURITY AREAS AIR COND. (11)	o*	V565	0	2	0	0	17-1/2	14	0	0	1	1	0	0	0	1
65	PIPING FILL PUMP		P256	2	0	2	0	5	3	0	0	0	2	0	0	0	0
66	DRYWELL H2O2 ANALYZER		S205	1	0	1	0	1	1	0	0	0	1	0	0	0	1
67	SUPPRESSION POOL H2O2 ANALYZER		S206	1	0	1	0	1	1	0	0	0	1	0	0	0	1
68	CHILLER PUMP-OUT COMPRESSOR	o *	K114	0	2	0	0	2	2	0	0	0	0	0	0	0	0
69	SPRAY POND SUMP PUMP	o *	P578	0	4	0	0	5	2	0	0	4	0	0	4	0	0
70	AUX EG. RM & COMP RM ELEC HUMIDFR	o *	E743	0	2	0	0	0	43	0	0	0	0	1	0	0	0
71	CONT RM ELEC HUMIDIFIER	o *	E744	0	2	0	0	0	29	0	0	0	0	1	0	0	0
72	250V BATTERY CHARGER	o	D123	1	0	1	0	0	9	0	0	0	1	1	0	0	0
73	ALT. POWER SUPPLY TO 10X161 XFMR	o	10X161	1	0	0	0	37-1/2	30	0	0	0	0	0	0	0	0
74	STATIC INVERTER 00-D592 XFMR	o *	00-X592	0	1	0	0	37-1/2	30	0	0	0	0	0	0	0	0
75	TELEPHONE EQUIP POWER XFMR	o *	X503	0	1	0	0	7-1/2	6	0	0	0	1	1	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	o	P947	3	0	3	0	1	1	0	0	0	0	0	0	0	0

TABLE 8.3 – 3 (Cont'd) (PAGE 3 OF 6)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			CAPACITY EACH	RATED HP EACH	OPER KW EACH	STARTUP MODE & OPERATING							
										UNIT 1 or UNIT 2 DBA STANDBY				UNIT 1 or UNIT 2 EMERGENCY SHUTDOWN (2) STANDBY			
				UNIT 1	COMMON	UNIT 2				AUTO	AUTO	MAN	MAN	AUTO	AUTO	MAN	MAN
77	DIESEL GENERATOR BRIDGE CRANE	o	H501	4	0	4	0	23	18	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLES	o	W508	4	0	4	0	60	48	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	o *	H511	0	2	0	0	7/12	0.5	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	o *	H513	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	TURB BLDG EQUIP CMPT EXHAUST FAN	++	V106	2	0	2	0	250	198	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	++	K111	2	0	2	0	1302	1379	0	0	0	0	0	0	0	0
82	ROD DRIVE CONTROL CABINET XFMR	o	X516	1	0	1	0	10	8	0	0	0	0	1	0	0	0
83	SLCS PUMP		P208	3	0	3	0	40	32	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	(7)	P221	3	0	3	0	125	92	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	o	W201	4,1 & 3	0	4,1 & 3	0	60	48	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	o	W202	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	o	W205	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86	440V POWER RECEPTACLE	o *	W601	0	1	0	0	60	48	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLE	o	W206	2	0	2	0	60	48	0	0	0	0	0	0	0	0
88	ANNUNCIATOR			4	0	4	0	0	1	0	0	0	4	0	0	0	4
89	TURB GEN TURN GEAR PIGGYBACK		S195	0	0	1	0	3	2	0	0	0	1	0	0	0	1
90	RHRSW CORROSION MONITORING	+++	Y215	1	0	0	F	105	77	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DIST PNL	o+	00B500	0	1	0	0	45	36	0	0	0	0	0	0	0	0

LEGEND:

* - COMMON EQUIPMENT
o - NON SAFEGUARD LOADS THAT ARE TRIPPED BY LOCA SIGNAL AND MANUALLY RESTARTED AFTER 10 MINUTES OR MORE, IF NEEDED.
\+ - NON SAFEGUARD LOAD NOT TRIPPED BY A LOAD SIGNAL.
++ - NON SAFEGUARD LOADS TREATED AS SAFEGUARD LOAD BUT TRIPPED BY A LOCA SIGNAL AND CAN BE MANUALLY RESTARTED AFTER 10 MINUTES OR MORE, IF NEEDED.
+++ - NON SAFEGUARD LOAD TRIPPED BY A LOCA OR LOOP SIGNAL AND SHALL NOT BE RESTARTED UNTIL NORMAL PLANT OPERATION IS RESTORED. LOAD KEPT IN THE INACTIVE STATUS BY PLACING THE MCC BREAKER IN THE OPEN POSITION.
! - EMERGENCY LIGHTING NUMBERS ARE AS FOLLOWS: 1L87*, L10, 1L55*, 1L85*, X26, L16, L17, L130, 1X17*, 1X64, L6, 1L9, L86

(1) - MOV LOADS ARE NOT INCLUDED IN THIS TABLE AND THE DIESEL GENERATOR LOADING TABLES THAT FOLLOW BECAUSE OF THEIR SMALL MAGNITUDE AND SHORT DURATION
(2) - ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.
(7) - ALTHOUGH 3 PUMPS ARE INSTALLED, ONLY ONE IS POWERED FROM THE CLASS 1E SYSTEM.
(9) - MOD P00674 REPLACED THE 2A-P202 PUMP MOTOR. THE MOTOR IS MORE EFFICIENT AND THE LOAD ASSIGNMENT FOR THE D/G AND BUS 21 IS REDUCED BY 16 kW.
(10) - DELETED.
(11) - ALTHOUGH 2 AIR CONDITIONERS ARE INSTALLED, ONLY ONE IS POWERED FROM THE CLASS 1E SYSTEM.
(12) -ECR 04-00319 REPLACED THE MOTOR FOR 1A-K203. LOAD IS NOW 2 KW.
(13) - ECR 04-00569 REPLACED THE MOTOR FOR 0A-V131. LOAD IS NOW 7 KW.

TABLE 8.3 – 3 (Cont'd) (PAGE 4 OF 6)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			ASSIGNMENT OF LOADS TO DIESEL GENERATORS AND EMERGENCY BUSES (IN kw)							
							UNIT 1 (UNIT 1 and UNIT 2 IN OPERATION)				UNIT 2 (UNIT 1 and UNIT 2 IN OPERATION)			
				UNIT 1	COMMON	UNIT 2	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
01	RHR PUMP	(9)	P202	4	0	4	993	993	993	993	977	993	993	993
02	CORE SPRAY PUMP		P206	4	0	4	529	529	529	529	529	529	529	529
03	RHR SERVICE WATER PUMP	*	P506	0	4	0	519	519	0	0	519	519	0	0
04	ESW PUMP	*	P548	0	4	0	389	389	0	0	0	0	389	389
05	125V BATTERY CHARGER		D103	4 & 2	0	4 & 2	51	50	9	9	51	51	9	9
06	DRYWELL COOLER FAN		V212	16	0	16	80	80	80	80	80	80	80	80
07	DG ROOM VENT FAN		V512	8	0	8	30	30	30	30	30	30	30	30
08	RHR ROOM COOLING UNIT		V210	8	0	8	32	32	32	32	32	32	32	32
09	CORE SPRAY ROOM COOLING UNIT		V211	8	0	8	14	16	14	16	14	14	14	14
10	HPCI ROOM COOLING UNIT		V209	2	0	2	0	20	0	0	0	20	0	0
11	RCIC ROOM COOLING UNIT		V208	2	0	2	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y101	4	0	4	11	11	12	11	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY		Y102	0	0	0	0	0	0	0	0	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y103	0	0	0	0	0	0	0	0	0	0	0
12	INSTRUMENT AC POWER SUPPLY		Y104	0	0	0	0	0	0	0	0	0	0	0
13	DG START AIR COMPRESSOR	o	K513	8	0	8	14	14	14	14	14	14	14	14
14	DG FUEL OIL TRANSFER PUMP		P514	4	0	4	1	1	1	1	1	1	1	1
15	SGTS HEATER	*	E188	0	2	0	44	44	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	*	V140	0	2	0	1	1	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	*	V141	0	2	0	6	6	0	0	0	0	0	0
18	SGTS EXHAUST FAN	*	V163	0	2	0	32	32	0	0	0	0	0	0
19	RERS FAN		V213	2	0	2	151	151	0	0	151	151	0	0
20	HVAC DAMPER POWER		Y206	4	0	4	4	4	16	20	2	2	0	0
20	HVAC DAMPER POWER		Y207	0	0	0	0	0	0	0	0	0	0	0
20	HVAC DAMPER POWER		Y163	0	0	0	0	0	0	0	0	0	0	0
20	HVAC DAMPER POWER		Y164	0	0	0	0	0	0	0	0	0	0	0
21	CONTROL ROOM CHILLER	*	K112	0	2	0	0	0	329/330	330	0	0	0	0
22	CONTROL ROOM CHILLER WATER PP	*	P162	0	2	0	0	0	16	16	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	*	V114	0	2	0	0	0	24	24	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	*	V120	0	2	0	0	0	16	16	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	*	V116	0	2	0	0	0	32	32	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	*	V121	0	2	0	0	0	12	12	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	*	V118	0	2	0	0	0	9	9	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR	* ++	E193	0	2	0	0	0	52	52	0	0	0	0
29	CONTROL ROOM AREA HEATER	* ++	E192	0	2	0	0	0	40	40	0	0	0	0
30	CONT RM FRESH AIR INTAKE HTR	*	E191	0	2	0	0	0	32	32	0	0	0	0
31	SPRAY POND STATION HTG COIL FAN	*	V543	0	4	0	7	7	0	0	0	0	7	7
32	SLCS HEATERS	++	S213	1 & 1	0	1 & 1	0	0	8	8	0	0	8	8
33	CONTAINMENT H2 RECOMBINER		S403	2	0	2	0	0	48	48	0	0	48	48
34	CONT'L RM EMER FRESH AIR SPLY FAN	*	V127	0	2	0	0	0	6	6	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	*	P168	0	2	0	0	0	1	1	0	0	0	0
36	DG AUXILIARIES	o	G501	4	0	4	14	14	14	14	14	14	14	14
37	DELETED													

TABLE 8.3 – 3 (Cont'd)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			ASSIGNMENT OF LOADS TO DIESEL GENERATORS AND EMERGENCY BUSES (IN kw)							
							UNIT 1 (UNIT 1 and UNIT 2 IN OPERATION)				UNIT 2 (UNIT 1 and UNIT 2 IN OPERATION)			
				UNIT 1	COMMON	UNIT 2	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
37	DELETED													
38	DELETED													
39	CRD PUMP	o	P158	2	0	2	0	0	133	133	0	0	133	133
40	DELETED													
41	RECW PUMP	++	P210	2	0	2	0	0	68	68	0	0	68	68
42	TECW PUMP	o	P103	2	0	2	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y105	4	0	4	5	10	24	14	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	o	Y106	0	0	0	0	0	0	0	0	0	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y201	0	0	0	0	0	0	0	0	0	0	0
43	INSTRUMENT AC POWER SUPPLY	o	Y202	0	0	0	0	0	0	0	0	0	0	0
44	EMERGENCY LIGHTING	o !	MISC	7	6	7	11	70	109	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	o	P109	9	0	9	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING OIL PP	o	P111	1	0	1	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	o	S103	1	0	1	48	0	0	0	24	0	0	0
48	RFPT GEAR	o	S106	3	0	3	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	o (12)	K203	2	0	2	1	1	0	0	1	1	0	0
50	INSTRUMENT AIR COMPRESSOR	o	K101	2	0	2	0	0	33	33	0	0	33	33
51	DELETED													
52	OSC XFMR PNLS OOL140 & OOL141	*	X186	0	1	0	0	24	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	*	X187	0	1	0	0	12	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	*	X595	0	1	0	0	9	0	0	0	0	0	0
55	DELETED													
56	CRD REPAIR RM COOLING FAN		V904	0	1	1	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	o	D113	2	0	2	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	* +	1X5	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	o	P211	3	0	3	32	32	0	32	32	32	0	32
60	FUEL POOL SVC WTR BSTR PUMP (7)		P212	3	0	3	19	0	0	0	19	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	o	Y501	0	4	0	1	1	0	0	0	0	8	8
62	SPRAY POND PP STATION HTG COIL	++ *	E701	0	4	0	96	96	0	0	0	0	96	96
63	SGTS RM VENT EXHAUST FAN	o *(13)	V131	0	2	0	7	7	0	0	0	0	0	0
64	SECURITY AREAS AIR COND. (11)	o *	V565	0	2	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP		P256	2	0	2	3	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER		S205	1	0	1	0	0	0	1	0	0	0	1
67	SUPPRESSION POOL H2O2 ANALYZER		S206	1	0	1	0	0	1	0	0	0	1	0
68	CHILLER PUMP-OUT COMPRESSOR	o *	K114	0	2	0	0	0	2	2	0	0	0	0
69	SPRAY POND SUMP PUMP	o *	P578	0	4	0	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELEC HUMIDFR	o *	E743	0	2	0	43	43	0	0	0	0	0	0
71	CONT RM ELEC HUMIDIFIER	o *	E744	0	2	0	29	29	0	0	0	0	0	0
72	250V BATTERY CHARGER	o	D123	1	0	1	0	9	0	0	0	9	0	0
73	ALT. POWER SUPPLY TO 10X161 XFMR	o	10X161	1	0	0	30	0	0	0	0	0	0	0
74	STATIC INVERTER 00-D592 XFMR	o *	00-X592	0	1	0	0	0	0	0	30	0	0	0
75	TELEPHONE EQUIP POWER XFMR	o *	X503	0	1	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	o	P947	3	0	3	1	2	0	0	1	2	0	0

TABLE 8.3 – 3 (Cont'd) (PAGE 6 OF 6)

ASSIGNMENT OF SAFEGUARD AND SELECTED NON-SAFEGUARD LOADS
TO DIESEL GENERATORS AND EMERGENCY BUSES

ITEM	LOAD DESCRIPTION	COMMENTS	EQUIP NO.	NUMBER OF OPERATING UNITS			ASSIGNMENT OF LOADS TO DIESEL GENERATORS AND EMERGENCY BUSES (IN kw)							
							UNIT 1 (UNIT 1 and UNIT 2 IN OPERATION)				UNIT 2 (UNIT 1 and UNIT 2 IN OPERATION)			
				UNIT 1	COMMON	UNIT 2	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
77	DIESEL GENERATOR BRIDGE CRANE	o	H501	4	0	4	18	18	18	18	18	18	18	18
78	440V POWER RECEPTACLES	o	W508	4	0	4	48	48	48	48	48	48	48	48
79	SPRAY POND PUMP HOIST	o *	H511	0	2	0	0.5	0	0	0	0	0	0	0.5
79	SPRAY POND PUMP HOIST	o *	H513	0	0	0	0	0	0	0	0	0	0	0
80	TURB BLDG EQUIP CMPT EXHAUST FAN	++	V106	2	0	2	197	198	0	0	198	198	0	0
81	DRYWELL CHILLER COMPRESSOR	++	K111	2	0	2	0	0	1379	1379	0	0	1379	1379
82	ROD DRIVE CONTROL CABINET XFMR	o	X516	1	0	1	0	8	0	0	0	8	0	0
83	SLCS PUMP		P208	3	0	3	32	32	32	0	32	32	32	0
84	RWCU SYSTEM RECIRC PUMP	(7)	P221	3	0	3	0	0	92	0	0	0	92	0
85	440V POWER RECEPTACLES	o	W201	4,1 & 3	0	4,1 & 3	0	0	0	144	0	0	0	144
85	440V POWER RECEPTACLES	o	W202	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	o	W205	0	0	0	0	0	0	0	0	0	0	0
86	440V POWER RECEPTACLE/SP RECIRC	o *	W601	0	1	0	0	0	0	0	0	0	0	48
87	440V POWER RECEPTACLE	o	W206	2	0	2	0	48	0	0	0	48	0	0
88	ANNUNCIATOR			4	0	4	1	1	1	1	1	1	1	1
89	TURB GEN TURN GEAR PIGGYBACK		S195	0	0	1	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	+++	Y215	1	0	0	0	77	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	o+	00B500	0	1	0	0	0	36	0	0	0	0	0

LEGEND:

* - COMMON EQUIPMENT
o - NON SAFEGUARD LOADS THAT ARE TRIPPED BY LOCA SIGNAL AND MANUALLY RESTARTED AFTER 10 MINUTES OR MORE, IF NEEDED.
\+ - NON SAFEGUARD LOAD NOT TRIPPED BY A LOAD SIGNAL.
++ - NON SAFEGUARD LOADS TREATED AS SAFEGUARD LOAD BUT TRIPPED BY A LOCA SIGNAL AND CAN BE MANUALLY RESTARTED AFTER 10 MINUTES OR MORE, IF
+++ - NON SAFEGUARD LOAD TRIPPED BY A LOCA OR LOOP SIGNAL AND SHALL NOT BE RESTARTED UNTIL NORMAL PLANT OPERATION IS RESTORED. LOAD KEPT IN THE INACTIVE STATUS BY PLACING THE MCC BREAKER IN THE OPEN POSITION.
! - EMERGENCY LIGHTING NUMBERS ARE AS FOLLOWS: 1L87*, L10, 1L55*, 1L85*, X26, L16, L17, L130, 1X17*, 1X64, L6, 1L9*, L86

(1) - MOV LOADS ARE NOT INCLUDED IN THIS TABLE AND THE DIESEL GENERATOR LOADING TABLES THAT FOLLOW BECAUSE OF THEIR SMALL MAGNITUDE AND SHORT DURATION
(2) - ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.
(7) - ALTHOUGH 3 PUMPS ARE INSTALLED, ONLY ONE IS POWERED FROM THE CLASS 1E SYSTEM.
(9) - MOD P00674 REPLACED THE 2A-P202 PUMP MOTOR. THE MOTOR IS MORE EFFICIENT AND THE LOAD ASSIGNMENT FOR THE D/G AND BUS 21 IS REDUCED BY 16 kW.
(10) - DELETED.
(11) - ALTHOUGH 2 AIR CONDITIONERS ARE INSTALLED, ONLY ONE IS POWERED FROM THE CLASS 1E SYSTEM.
(12)—ECR 04-00319 REPLACED THE MOTOR FOR 1A-K203. LOAD IS NOW 2 KW.
(13)—ECR 04-00569 REPLACED THE MOTOR FOR 0A-V131. LOAD IS NOW 7 KW.

Tables 8.3-4 through 8.3-8

Tables 8.3-4 through 8.3-8
(Deleted)

Table 8.3-9

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
ALL DIESEL GENERATORS IN SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	993	977	993	993	993	0	993	0	993	0	993	0	0	0	993	0	993	0	993	0	0
2	CORE SPRAY PUMP	P206	529	529	529	529	529	529	529	529	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	519	0	0	0	519	0	0	0	519	0	0	0	519	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	50	9	9	51	51	9	9	51	50	9	9	51	51	9	9	51	50	9	9	51	51	9	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	80	0	0	80	80	0	0	80	80	0	0	80	80	0	0	80	80	0	0
7	DG ROOM VENT FAN	V512	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
8	RHR ROOM COOLING UNIT	V210	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	8	7	7	7	7	7	8	7	8	7	7	7	7	7	8	7	8	7	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	11	12	12	12	12	11	11	12	11	12	12	12	12	11	11	12	11	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	20	2	2	22	2	4	4	16	20	2	2	22	2	4	4	16	20	2	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

Table 8.3-9 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
ALL DIESEL GENERATORS IN SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	11	0	0	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	14	24	24	24	24	5	10	24	14	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	99	0	59	80	68	11	70	108	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	32	0	0	0	32	32	0	0	32	0	0	0	32	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-9 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
ALL DIESEL GENERATORS IN SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2099	1630	1865	1741	2024	1996	1278	1867	1549	1330	569	1882	777	685	1278	1867	1549	1330	569	1882	777	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-10

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D11 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	0	993	993	993	977	993	993	993	0	993	0	993	0	993	0	0	0	993	0	993	0	993	0	0
2	CORE SPRAY PUMP	P206	0	529	529	529	529	529	529	529	0	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	0	0	0	519	519	0	0	0	0	0	0	519	519	0	0
4	ESW PUMP	P548	0	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	0	50	9	9	51	51	9	9	0	50	9	9	51	51	9	9	0	50	9	9	51	51	9	9
6	DRYWELL COOLER FAN	V212	0	80	80	0	80	80	0	0	0	0	80	80	80	80	0	0	0	0	80	80	80	80	0	0
7	DG ROOM VENT FAN	V512	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30
8	RHR ROOM COOLING UNIT	V210	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	0	8	7	8	7	7	7	7	0	8	7	8	7	7	7	7	0	8	7	8	7	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	0	11	12	11	12	12	12	12	0	11	12	11	12	12	12	12	0	11	12	11	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	0	7	7	7	7	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0
19	RERS FAN	V213	0	151	0	0	151	0	0	0	0	151	0	0	151	0	0	0	0	151	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	0	4	16	20	2	2	22	2	0	4	16	20	2	2	22	2	0	4	16	20	2	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-10 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D11 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14	0	14	14	14	14	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	0	11	0	0	12	11	0	0	0	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	0	10	24	14	24	24	24	24	0	10	24	14	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	0	70	108	99	0	59	80	68	0	70	108	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	0	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	32	32	0	0	0	32	0	0	32	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	0	1	0	0	0	0	8	8	0	1	0	0	0	0	8	8	0	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	0	3	0	0	3	3	0	0	0	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

Table 8.3-10 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D11 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	2	0	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		0	2364	2179	1630	1865	1741	2024	1996	0	2135	1100	1939	1088	1882	777	685	0	2135	1100	1939	1088	1882	777	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-11

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D12 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	0	993	993	977	993	993	993	993	0	0	993	0	993	0	0	993	0	0	993	0	993	0	0
2	CORE SPRAY PUMP	P206	529	0	529	529	529	529	529	529	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	0	0	0	519	519	0	0	0	0	0	0	519	519	0	0
4	ESW PUMP	P548	389	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	0	9	9	51	51	9	9	51	0	9	9	51	51	9	9	51	0	9	9	51	51	9	9
6	DRYWELL COOLER FAN	V212	80	0	0	80	80	80	0	0	0	0	80	80	80	80	0	0	0	0	80	80	80	80	0	0
7	DG ROOM VENT FAN	V512	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30
8	RHR ROOM COOLING UNIT	V210	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	0	7	8	7	7	7	7	7	0	7	8	7	7	7	7	7	0	7	8	7	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	0	0	0	0	10	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	0	12	11	12	12	12	12	11	0	12	11	12	12	12	12	11	0	12	11	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	0	7	7	7	7	7	7	7	0	7	7	7	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	0	16	20	2	2	22	2	4	0	16	20	2	2	22	2	4	0	16	20	2	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

Table 8.3-11 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D12 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	0	14	14	14	14	14	14	14	0	14	14	14	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	0	0	0	12	11	0	0	11	0	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	0	24	14	24	24	24	24	5	0	24	14	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	0	108	99	0	59	80	68	11	0	108	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	0	0	0	2	1	0	0	2	0	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	0	0	0	0	0	8	8	1	0	0	0	0	0	8	8	1	0	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	0	0	0	3	3	0	0	3	0	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

Table 8.3-11 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D12 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2	2	0	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	0	2099	1710	1865	1741	2024	1996	2191	0	1629	1410	1088	1850	777	685	2191	0	1629	1410	1088	1850	777	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-12

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D13 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	0	993	977	993	993	993	993	993	0	0	0	993	0	0	993	993	0	0	0	993	0	0
2	CORE SPRAY PUMP	P206	529	529	0	529	529	529	529	529	0	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	0	0	0	519	519	0	0	0	0	0	0	519	519	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	50	0	9	51	51	9	9	51	50	0	9	51	51	9	9	51	50	0	9	51	51	9	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	80	0	0	80	0	0	80	80	80	0	0	80	0	0	80	80	80	0	0
7	DG ROOM VENT FAN	V512	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30
8	RHR ROOM COOLING UNIT	V210	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	0	8	7	7	7	7	7	8	0	8	7	7	7	7	7	8	0	8	7	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	0	11	12	12	12	12	11	11	0	11	12	12	12	12	11	11	0	11	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	0	7	7	7	7	7	7	7	0	7	7	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	0	20	2	2	22	2	4	4	0	20	2	2	22	2	4	4	0	20	2	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	0	330	0	0	0	0	0	0	0	330	0	0	0	0	0	0	0	330	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-12 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D13 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	0	14	14	14	14	14	14	14	0	14	14	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	0	68	0	0	68	0	0	0	0	68	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	11	0	0	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	0	14	24	24	24	24	5	10	0	14	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	0	99	0	59	80	68	11	70	0	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 8.3-12 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D13 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130		0 2113	1865	1741	2024	1996	1710	1829		0 1498	1056	1882	777	685	1710	1829		0 1498	1056	1882	777	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-13

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D14 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	0	977	993	993	993	993	993	0	0	0	993	0	0	993	993	0	0	0	993	0	0
2	CORE SPRAY PUMP	P206	529	529	529	0	529	529	529	529	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	519	0	0	519	0	0	0	0	519	0	0	519	0	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	50	9	0	51	51	9	9	51	50	9	0	51	51	9	9	51	50	9	0	51	51	9	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	80	0	0	0	80	80	0	80	80	0	0	0	80	80	0	80	80	0	0
7	DG ROOM VENT FAN	V512	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30
8	RHR ROOM COOLING UNIT	V210	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	0	7	7	7	7	7	8	7	0	7	7	7	7	7	8	7	0	7	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	0	12	12	12	12	11	11	12	0	12	12	12	12	11	11	12	0	12	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	0	7	7	7	7	7	7	7	0	7	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	0	2	2	22	2	4	4	16	0	2	2	22	2	4	4	16	0	2	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-13 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D14 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	0	14	14	14	14	14	14	14	0	14	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	11	0	0	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	0	24	24	24	24	5	10	24	0	24	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	0	0	59	80	68	11	70	108	0	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	32	32	0	0	0	32	0	0	32	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-13 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D14 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2098	0	1865	1741	2024	1996	2159	1899	1629	0	1088	1363	777	685	2159	1899	1629	0	1088	1363	777	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-14

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D21 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	993	0	993	993	993	0	993	0	993	0	993	0	0	0	993	0	993	0	993	0	0
2	CORE SPRAY PUMP	P206	529	529	529	529	0	529	529	529	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	519	0	0	0	0	519	0	0	519	0	0	0	0	519	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	50	9	9	0	51	9	9	51	50	9	9	0	51	9	9	51	50	9	9	0	51	9	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	0	80	80	0	0	0	80	80	0	80	80	0	0	0	80	80	0	80	80	0
7	DG ROOM VENT FAN	V512	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30
8	RHR ROOM COOLING UNIT	V210	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	8	0	7	7	7	7	8	7	8	0	7	7	7	7	8	7	8	0	7	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	11	0	12	12	12	11	11	12	11	0	12	12	12	11	11	12	11	0	12	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	7	0	7	7	7	7	7	7	7	0	7	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	0	151	0	0	151	0	0	0	0	151	0	0	151	0	0	0	0	151	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	20	0	2	22	2	4	4	16	20	0	2	22	2	4	4	16	20	0	2	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

Table 8.3-14 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D21 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	14	0	14	14	14	14	14	14	14	0	14	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	0	11	0	0	11	11	0	0	0	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	14	0	24	24	24	5	10	24	14	0	24	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	99	0	59	80	68	11	70	108	99	0	59	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	2	1	0	0	0	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	0	3	0	0	3	3	0	0	0	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

Table 8.3-14 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D21 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2099	1629	0	1892	2104	1996	1685	1300	1629	1410	0	2033	857	685	1685	1300	1629	1410	0	2033	857	685

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-15

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D22 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	993	977	0	993	993	0	993	0	993	977	0	0	0	0	993	0	993	977	0	0	0
2	CORE SPRAY PUMP	P206	529	529	529	529	529	0	529	529	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	519	519	0	0	0	0	0	0	519	519	0	0	0	0	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389
5	125V BATTERY CHARGER	D103	51	50	9	9	51	0	9	9	51	50	9	9	51	0	9	9	51	50	9	9	51	0	9	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	0	0	80	0	0	80	80	0	0	80	80	0	0	80	80	0	0	80	80
7	DG ROOM VENT FAN	V512	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30
8	RHR ROOM COOLING UNIT	V210	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	8	7	0	7	7	7	8	7	8	7	0	7	7	7	8	7	8	7	0	7	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10	0	0	0	0	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	11	12	0	12	12	11	11	12	11	12	0	12	12	11	11	12	11	12	0	12	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	7	7	0	7	7	7	7	7	7	7	0	7	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	20	2	0	22	2	4	4	16	20	2	0	22	2	4	4	16	20	2	0	22	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-15 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D22 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	14	14	0	14	14	14	14	14	14	14	0	14	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	0	0	0	11	11	0	0	12	0	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	14	24	0	24	24	5	10	24	14	24	0	24	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	99	0	0	80	68	11	70	108	99	0	0	80	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	0	0	0	2	1	0	0	2	0	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	32	0	0	0	0	32	0	0	32	0	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8	1	1	0	0	0	0	8	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	0	0	0	3	3	0	0	3	0	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-15 (continued)

CALC 6380E.07

PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D22 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	2	2	0	0	0	0	2	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2099	1629	1865	0	2024	2076	1685	1819	1629	1410	1466	0	857	765	1685	1819	1629	1410	1466	0	857	765

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-16

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D23 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	993	977	993	0	993	993	993	0	0	0	993	0	0	993	993	0	0	0	993	0	0
2	CORE SPRAY PUMP	P206	529	529	529	529	529	529	0	529	0	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	0	0	0	0	519	519	0	0	0	0	0	0	519	519	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	0	389	389	0	0	0	0	0	0	389	389	0	0	0	0	0	0	389
5	125V BATTERY CHARGER	D103	51	50	9	9	51	51	0	9	51	50	9	9	51	51	0	9	51	50	9	9	51	51	0	9
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	80	0	0	0	0	80	80	80	80	0	0	0	0	80	80	80	80	0	0
7	DG ROOM VENT FAN	V512	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30
8	RHR ROOM COOLING UNIT	V210	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	8	7	7	0	7	7	8	7	8	7	7	0	7	7	8	7	8	7	7	0	7
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	11	12	12	0	12	11	11	12	11	12	12	0	12	11	11	12	11	12	12	0	12
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	7	7	7	0	7	7	7	7	7	7	7	0	7
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	20	2	2	0	2	4	4	16	20	2	2	0	2	4	4	16	20	2	2	0	2
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8	0	0	0	0	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	48	0	0	0	0	0

Table 8.3-16 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D23 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	14	14	14	0	14	14	14	14	14	14	14	0	14
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	68	0	0	68	0	0	0	0	68
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	11	0	0	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	14	24	24	0	24	5	10	24	14	24	24	0	24
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	99	0	59	0	68	11	70	108	99	0	59	0	68
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	33	0	0	0	0	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	96	0	0	0	96	0	0	0	96
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	0	8	1	1	0	0	0	0	0	8	1	1	0	0	0	0	0	8
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	0	0	0	3	3	0	0	3	0	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

Table 8.3-16 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION

D23 DIESEL GENERATOR OUT OF SERVICE

UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2	2	2	0	0	0	0	0	2
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2099	1630	1865	1741	0	1996	2019	1829	1100	946	1056	1879	0	753	2019	1829	1100	946	1056	1879	0	753

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-17

CALC 6380E.07 PAGE : 1 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D24 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
1	RHR PUMP	P202	993	993	993	993	977	993	993	0	0	993	0	993	977	0	0	0	0	993	0	993	977	0	0	0
2	CORE SPRAY PUMP	P206	529	529	529	529	529	529	529	0	529	0	529	0	0	0	0	0	529	0	529	0	0	0	0	0
3	RHR SERVICE WATER PUMP	P506	0	0	0	0	0	0	0	0	519	0	0	0	0	519	0	0	519	0	0	0	0	519	0	0
4	ESW PUMP	P548	389	389	0	0	0	0	389	0	0	389	0	0	0	0	389	0	0	389	0	0	0	0	389	0
5	125V BATTERY CHARGER	D103	51	50	9	9	51	51	9	0	51	50	9	9	51	51	9	0	51	50	9	9	51	51	9	0
6	DRYWELL COOLER FAN	V212	80	80	0	0	80	80	0	0	80	0	0	80	0	80	80	0	80	0	0	80	0	80	80	0
7	DG ROOM VENT FAN	V512	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0	30	30	30	30	30	30	30	0
8	RHR ROOM COOLING UNIT	V210	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0	16	16	16	16	16	16	16	0
9	CORE SPRAY ROOM COOLING UNIT	V211	7	8	7	8	7	7	7	0	7	8	7	8	7	7	7	0	7	8	7	8	7	7	7	0
10	HPCI ROOM COOLING UNIT	V209	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0	0	10	0	0
11	RCIC ROOM COOLING UNIT	V208	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0
12	INSTRUMENT AC POWER SUPPLY	Y101	11	11	12	11	12	12	12	0	11	11	12	11	12	12	12	0	11	11	12	11	12	12	12	0
12	INSTRUMENT AC POWER SUPPLY	Y102																								
12	INSTRUMENT AC POWER SUPPLY	Y103																								
12	INSTRUMENT AC POWER SUPPLY	Y104																								
13	DG START AIR COMPRESSOR	K513	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	0	7	7	7	7	7	7	7	0
14	DG FUEL OIL TRANSFER PUMP	P514	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	SGTS HEATER	E188	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0	44	0	0	0	0	0	0	0
16	SGTS ROOM UNIT COOLER	V140	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
17	SGTS ROOM ACCESS UNIT COOLER	V141	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
18	SGTS EXHAUST FAN	V163	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0
19	RERS FAN	V213	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0	151	0	0	0
20	HVAC DAMPER POWER	Y163	4	4	16	20	2	2	22	0	4	4	16	20	2	2	22	0	4	4	16	20	2	2	22	0
20	HVAC DAMPER POWER	Y164																								
20	HVAC DAMPER POWER	Y206																								
20	HVAC DAMPER POWER	Y207																								
21	CONTROL ROOM CHILLER	K112	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0	0	0	329	0	0	0	0	0
22	CONTROL ROOM CHILLER WATER PUMP	P162	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
23	AUX PNL & COMP RM FAN COIL UNIT	V114	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24	0	0	0	0	0
24	AUX PNL & COMP RM RETURN AIR UNIT	V120	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16	0	0	0	0	0
25	CONTROL ROOM AIR COND UNIT	V116	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	32	0	0	0	0	0
26	CONTROL ROOM RETURN AIR FAN	V121	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0
27	EMER SWGR & BTRY RM AIR COND UNIT	V118	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
28	AUX EQUIP & COMP RM AREA HTR (11)	E193	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52	0	0	0	0	0
29	CONTROL ROOM AREA HEATER (11)	E192	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	40	0	0	0	0	0
30	CONTROL RM FRESH AIR INTAKE HTR (11)	E191	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	SPRAY POND STA. HTG COIL FAN (11)	V543	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0	7	7	0	0	0	0	0	0
32	SLCS HEATERS	S213	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0	0	0	8	0
33	CONTAINMENT H2 RECOMBINER	S403	0	0	0	0	0	0	0	0	0	0	48	0	0	0	48	0	0	0	48	0	0	0	48	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-17 (continued)

CALC 6380E.07 PAGE : 2 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D24 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
34	CONTROL ROOM FRESH AIR SUPPLY FAN	V127	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
35	CONTROL ROOM CHILLER OIL PUMP	P168	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
36	DG AUXILIARIES	G501	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14	0	14	14	14	14	14	14	14	0
37	DELETED																									
37	DELETED																									
38	DELETED																									
39	CRD PUMP	P158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	DELETED																									
41	RECW PUMP	P210	0	0	0	0	0	0	0	0	0	0	68	0	0	0	68	0	0	0	68	0	0	0	68	0
42	TECW PUMP	P103	0	0	0	0	0	0	0	0	11	11	0	0	12	11	0	0	11	11	0	0	12	11	0	0
43	INSTRUMENT AC POWER SUPPLY	Y105	0	0	0	0	0	0	0	0	5	10	24	14	24	24	24	0	5	10	24	14	24	24	24	0
43	INSTRUMENT AC POWER SUPPLY	Y106																								
43	INSTRUMENT AC POWER SUPPLY	Y201																								
43	INSTRUMENT AC POWER SUPPLY	Y202																								
44	EMERGENCY LIGHTING	MISC	0	0	0	0	0	0	0	0	11	70	108	99	0	59	80	0	11	70	108	99	0	59	80	0
45	TURBINE GEN BEARING LIFT PUMP	P109	0	0	0	0	0	0	0	0	45	0	0	0	36	0	0	0	45	0	0	0	36	0	0	0
46	TURBINE GEN TURNING GEAR OIL PUMP	P111	0	0	0	0	0	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0	32	0	0	0
47	TURBINE GEN TURNING GEAR	S103	0	0	0	0	0	0	0	0	48	0	0	0	24	0	0	0	48	0	0	0	24	0	0	0
48	RFPT TURNING GEAR	S106	0	0	0	0	0	0	0	0	2	1	0	0	2	1	0	0	2	1	0	0	2	1	0	0
49	INSTRUMENT GAS COMPRESSOR	K203	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	0
50	INSTRUMENT AIR COMPRESSOR	K101	0	0	0	0	0	0	0	0	0	0	33	0	0	0	33	0	0	0	33	0	0	0	33	0
51																										
52	OSC XFMR PNLS 00L140 & 00L141	X186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	TEST ENGINEER'S WORKSHOP	X187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	NORTH STACK RM ANTENNA SYS XFMR	X595	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0	0
55																										
56	CRD REPAIR RM COOLING FAN	V904	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	125V BATTERY CHARGER	D113	0	0	0	0	0	0	0	0	0	0	0	96	0	0	0	0	0	0	0	96	0	0	0	0
58	FIRE ALARM & P/A	1X5	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12	0	0	0	0
59	FUEL POOL COOLING WATER PUMP	P211	0	0	0	0	0	0	0	0	32	32	0	0	32	32	0	0	32	32	0	0	32	32	0	0
60	FUEL POOL SVC WATER BOOSTER PUMP	P212	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	INSTR. AC PWR SUPPLY (SPRAY POND)	Y501	1	1	0	0	0	0	8	0	1	1	0	0	0	0	8	0	1	1	0	0	0	0	8	0
62	SPRAY POND PP STA. HTG COIL (6,11)	E701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	SGTS RM VENT EXHAUST FAN	V131	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
64	SECURITY AREAS AIR COND.	V565	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14	0	0	0	0	0
65	PIPING FILL PUMP	P256	0	0	0	0	0	0	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0
66	DRYWELL H2O2 ANALYZER	S205	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
67	SUPPRESSION POOL H2O2 ANALYZER	S206	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
68	CHILLER PUMP-OUT COMPRESSOR	K114	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0

CALC 6380E.07 As-Built Calculations Used LGS REV 12

Table 8.3-17 (continued)

CALC 6380E.07 PAGE : 3 of 3

DIESEL GENERATOR AND EMERGENCY BUS LOADING WITH UNITS 1 & 2 IN OPERATION
D24 DIESEL GENERATOR OUT OF SERVICE
UNIT 1 DESIGN BASIS ACCIDENT; UNIT 2 SPURIOUS LOCA (7)

			0 - 10 MINUTES								10 - 60 MINUTES								1 HOUR AND LONGER							
			UNIT 1				UNIT 2				UNIT 1				UNIT 2				UNIT 1				UNIT 2			
ITEM	LOAD DESCRIPTION	EQUIP NO	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24	D/G BUS D11	D/G BUS D12	D/G BUS D13	D/G BUS D14	D/G BUS D21	D/G BUS D22	D/G BUS D23	D/G BUS D24
69	SPRAY POND SUMP PUMP	P578	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	0	2	2	0	0	0	0	2	0
70	AUX EG. RM & COMP RM ELE. HUMID (11)	E743	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0
71	CONTROL RM ELEC HUMIDIFIER (11)	E744	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
72	250V BATTERY CHARGER	D123	0	0	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0	0	9	0	0
73	ALT POWER SUPPLY TO 10X161 XFMR	10X161	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
74	PNL 00-Y500 MAINT PWR SUPPLY VIA XFMR	00-X500	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20	0	0	0
75	TELEPHONE EQUIP POWER XFMR	X503	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
76	RECOMBINER HYDROGEN ANALYZER	P947	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
77	DIESEL GENERATOR BRIDGE CRANE	H501	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	440V POWER RECEPTACLE	W508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
79	SPRAY POND PUMP HOIST	H513																								
80	TURB BLDG EQUIP COMPT EXHAUST FAN	V106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	DRYWELL CHILLER COMPRESSOR	K111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
82	ROD DRIVE CONROL CABINET XFMR	X516	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	SLCS PUMP	P208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	RWCU SYSTEM RECIRC PUMP	P221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	440V POWER RECEPTACLES	W202																								
85	440V POWER RECEPTACLES	W205																								
86	440V POWER RECEPTACLES / SP RECIRC	W601	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87	440V POWER RECEPTACLES	W206	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MCC ANNUNCIATORS		1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0
89	TURB GEN TURNING GEAR PIGGYBCK MTR	S195	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0
90	RHRSW CORROSION MONITORING	Y215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
91	ADMIN BLDG 480V DISTR PNL	00B500	0	0	0	0	0	0	0	0	0	0	66	0	0	0	0	0	0	0	66	0	0	0	0	0
	4kv BUS SUBTOTAL (kw)		2361	2130	2099	1630	1865	1741	2024	0	1797	1689	1549	1410	1466	889	857	0	1797	1689	1549	1410	1466	889	857	0

LEGEND

(6) THE SPRAY POND PUMP STATION HEATING COILS ARE TRIPPED BY A LOCA SIGNAL.

(7) ASSIGNMENT OF THE LOADING ON THE DIESEL GENERATORS IS SUCH THAT THE SITUATION OF A DBA ON ONE UNIT AND SPURIOUS LOCA ON THE OTHER UNIT DOES NOT PRECLUDE SAFE SHUTDOWN OF THE UNITS. A SPURIOUS LOCA IS DEFINED AS A LOCA FOR 0-10 MINUTES AND EMERGENCY SHUTDOWN FOR BEYOND 10 MINUTES.

(11) HEATING LOADS AND COOLING LOADS ARE NOT COINCIDENT. THE COINCIDENT COOLING LOAD IS LARGER THAN THE COINCIDENT HEATING LOAD, THEREFORE, THE COOLING LOADS ARE SHOWN ENERGIZED.

Table 8.3-18

Table 8.3-18
(Deleted)

Table 8.3-18A

Table 8.3-18A
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Table 8.3-19

Table 8.3-19
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Table 8.3-20

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Table 8.3-21

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Table 8.3-22

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Table 8.3-23

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Table 8.3-24

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Table 8.3-25

Table 8.3-25
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Table 8.3-26

Table 8.3-26
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Table 8.3-27

INSTRUMENT AND CONTROL SYSTEMS
POWER SUPPLY PANELS

Panel	Voltage	Division
Y101	120 V ac	I
Y102	"	II
Y103	"	III
Y104	"	IV
Y105	"	NS
Y106	"	NS
Y201	"	NS
Y202	"	NS
Y109	"	NS
Y110	"	NS
AY160	"	NS
BY160	"	NS
AD102	125 V dc	I
BD102	"	II
CD102	"	III
DD102	"	IV
AD108	"	NS
BD108	"	NS
AY185	120 V ac	NS
BY185	"	NS
00Y591	"	NS
00Y592	"	NS
Y163	"	III
Y164	"	IV

NS = Nonsafeguard

Table 8.3-28

UNDERVOLTAGE ALARMS

SECTION I

Number	Annunciator	Status Lights
1	Division I RHR Out-of-Service Panel AC801, #21	RHR Pump Breaker Control Power Undervoltage RHR Unit Coolers Out-of-Service RHRSW Pump Breaker Control Power Undervoltage Spray Pond MOV Overload/Loss of Power Spray Pond HVAC Out-of-Service RHR Relays Logic Power Failure RHR MOVs Overload/Loss of Power RHR Trip Units Out-of-File/ Loss of Power
2	Division II RHR Out-of-Service Panel CC801, #21	Same as #1
3	Division III RHR Out-of-Service Panel AC801, #36	Same as #1
4	Division IV RHR Out-of-Service Panel CC801, #36	Same as #1
5	Division I Core Spray Out-of-Service Panel AC801, #1	Core Spray Pump Breaker Control Power Undervoltage Core Spray Unit Coolers Out-of-Service Core Spray MOVs Overload/Loss of Power Core Spray Logic Power Failure Core Spray Trip Unit Out-of-File/Power Failure
6	Division II Core Spray Out-of-Service Panel CC801, #1	Same as #5
7	Division III Core Spray Out-of-Service Panel AC801, #11	Same as #5

Table 8.3-28 (Cont'd)

Number	Annunciator	Status Lights
8	Division IV Core Spray Out-of-Service Panel CC801, #11	Same as #5
9	RCIC Out-of-Service Panel C848, #1	RCIC Logic Power Failure RCIC Trip Unit Out of File/Power Failure RCIC Area Temperature Logic Power Failure RCIC Inverter Failure RCIC MOVs Overload/Loss of Power RCIC Unit Coolers Out-of- Service
10	HPCI Out-of-Service Panel C847, #1	HPCI Auxiliary Oil Pump Overload/Loss of Power HPCI Inverter Failure HPCI MOV Overload/Loss of Power HPCI Logic Power Failure HPCI Area Temperaure Logic Power Failure HPCI Trip Unit Out-of-File/ Power Failure HPCI Unit Coolers Out-of-Service
11	Division I ESW Out-of-Service Panel AC 867, #1	ESW MOVs Overload/Loss of Power Spray Pond MOVs Overload Loss of Power Spray Pond HVAC Out-of-Service EWS Pump Breaker Control Power Undervoltage
12	Division II ESW Out-of-Service Panel BC867, #16	Same as #11
13	Division III ESW Out-of-Service Panel AC867, #6	Same as #11
14	Division IV ESW Out-of-Service Panel BC867, #21	Same as #11
15	Division I Standby ac Power System Out-of-Service Panel AC861, #17	DG Cooling Water MOVs Overload/Loss of Power 201-DXX Bus Breaker Control Power Undervoltage

Table 8.3-28 (Cont'd)

Number	Annunciator	Status Lights
		101-DXX Bus Breaker Control Power Undervoltage Safeguard LC Xmfr. Breaker Control Power Undervoltage CRD Water Pump Breaker Control Power Undervoltage Turbine Enclosure Exhaust Fan Breaker Control Power Undervoltage Drywell Chiller Breaker Control Power Undervoltage DG Not Ready for Autostart
16	Division II Standby ac Power System Out-of-Service Panel BC861, #17	Same as #15
17	Division III Standby ac Power System Out-of-Service Panel CC861, #17	Same as #15
18	Division IV Standby ac Power System Out-of-Service Panel AC802, #17	Same as #15
19	Reactor Isolation System Outboard Out-of-Service Panel AC802, #25	NSSSS Trip Unit Out-of-File/ Power Failure NSSSS MOV Overload/Loss of Power
20	Reactor Isolation System Inboard Out-of-Service Panel AC802, #20	Same as #19
21	Division I ADS Out-of-Service Panel C826, #1	Relay Logic Power Failure Trip Unit Out-of-File/Power Failure
21A	Division III ADS Out-of-Service Panel C826, #11	Same as #21
22	RPS System A Out-of-Service Panel BC803, #5	Trip Unit Out-of-File/ Power Failure
22A	RPS System B Out-of-Service Panel BC803, #10	Same as #22

Table 8.3-28 (Cont'd)

SECTION II

Number	Bus	Voltage	Alarm	Panel/Window
23	10A101	13.2 kV	11 Unit Auxiliary Bus UV	1BC854/6
24	10A102	13.2 kV	12 Unit Auxiliary Bus UV	1BC854/9
25	20A101	13.2 kV	21 Unit Auxiliary Bus UV	2BC854/26
26	20A102	13.2 kV	22 Unit Auxiliary Bus UV	2BC854/29
27	10	13.2 kV	10 Startup Bus UV	00C860/4
28	20	13.2 kV	20 Startup Bus UV	00C860/24
29	101	4.16 kV	101 Safeguard Bus UV	1AC861/28
30	201	4.16 kV	201 Safeguard Bus UV	1AC861/29
31	D11	4.16 kV	D11 Safeguard Bus UV	1AC861/6
32	D12	4.16 kV	D12 Safeguard Bus UV	1BC861/6
33	D13	4.16 kV	D13 Safeguard Bus UV	1CC861/6
34	D14	4.16 kV	D14 Safeguard Bus UV	1DC861/6
35	D21	4.16 kV	D21 Safeguard Bus UV	2AC861/6
36	D22	4.16 kV	D22 Safeguard Bus UV	2BC861/6
37	D23	4.16 kV	D23 Safeguard Bus UV	2CC861/6
38	D24	4.16 kV	D24 Safeguard Bus UV	2DC861/6
39	AD102	125 V dc	PPA1/A3 125 V dc Distribution Panel UV	AC861/33
40	BD501	125 V dc	PPA2 125 V dc Distribution Panel UV	AC861/34
41	BD102	125 V dc	PPB1/B3 125 V dc Distribution Panel UV	BC861/34
42	BD501	125 V dc	PPB2 125 V dc Distribution Panel UV	BC861/35
43	CD102	125 V dc	PPC1/C3 125 V dc Distribution Panel UV	CC861/32
44	CD501	125 V dc	PPC2 125 V dc Distribution Panel UV	CC861/33

Table 8.3-28 (Cont'd)

Number	Bus	Voltage	Alarm	Panel/Window
45	DD102	125 V dc	PPD1/D3 125 V dc Distribution Panel UV	DC861/32
46	DD501	125 V dc	PPD2 125 V dc Distribution Panel UV	DC861/33
47	AD108	125 V dc	PP01 125 V dc Distribution Panel UV	1AC854/3 2BC854/18
48	BD108	125 V dc	PP02 125 V dc Distribution Panel UV	1AC854/4 2BC854/19
49	CD108	125 V dc	PP03 125 V dc Distribution Panel UV	1AC854/5 2BC854/20
50	DD108	125 V dc	PP04 125 V dc Distribution Panel UV	1AC854/8 2BC854/25

SECTION III

Number	Alarm	Panel/Window
51	A RFPT Control Volt Failure	BC868/5
52	B RFPT Control Volt Failure	BC868/10
53	C RFPT Control Volt Failure	BC868/15
54	A RPS/UPS Static Inverter Trouble	AC861/5
55	B RPS/UPS Static Inverter Trouble	BC861/5
56	RFPT Control Signal Failure	AC803/20
57	IRM Downscale	AC803/33
58	SRM Downscale	AC803/34
59	IRM Upscale/Inop	AC803/38
60	SRM Upscale/Inop	AC803/39
61	OPRM/APRM Trouble	BC803/5
62	Not Used	BC803/9
63	Not Used	BC803/13
64	RBM Downscale/Trouble	BC803/19
65	Not Used	BC803/14

Table 8.3-28 (Cont'd)

Number	Alarm	Panel/Window
66	RPIS Inop	BC803/25
67	SLCS Squib Valve Loss of Continuity	BC803/44
68	Division 1 Core Spray Trip Unit Inverter Power Failure	AC801/5
69	Division 2 Core Spray Trip Unit Inverter Power Failure	CC801/5
70	Division 3 Core Spray Trip Unit Inverter Power Failure	AC801/15
71	Division 4 Core Spray Trip Unit Inverter Power Failure	CC801/15
72	DELETED	
73	DELETED	
74	Main Steam Line (A/B) Radiation Monitor Downscale	C800/26
75	Main Steam Line (C/D) Radiation Monitor Downscale	C800/27
76	North Stack Radiation Monitor Downscale	00C824/23
77	South Stack Radiation Monitor Downscale	00C824/28
78	A RPS/UPS Distribution Panel Trouble	AC861/30
79	B RPS/UPS Distribution Panel Trouble	BC861/29
80	TSC/Computer Trouble	00C855/4
81	A Drywell Chiller Loss of Control Power	C881/11
82	B Drywell Chiller Loss of Control Power	C881/16
83	SPTMS Trouble Division I	AC803/23

Table 8.3-28 (Cont'd)

Number	Alarm	Panel/Window
84	SPTMS Trouble Division II	AC803/24
85	RDCS Inop	BC803/24
86	INTENTIONALLY LEFT BLANK	
87	CRD Trip Unit Out-of-Service	BC803/40
88	CRD Accumulator Trouble	BC803/26
89	A Recirculation MG Controller Signal Failure (Unit 2 only)	AC802/27
89A	A Recirculation ASD Major Failure (Unit 1 only)	AC902/07
90	B Recirculation MG Controller Signal Failure (Unit 2 only)	BC802/27
90A	B Recirculation ASD Major Failure (Unit 1 only)	AC902/07
91	1 RFPT Loss of Power	AC868/33
92	2 RFPT Loss of Power	AC868/38
93	3 RFPT Loss of Power	AC868/43
94	Turbine Enclosure HVAC Panel C126 Trouble	C881/36
95	Suppression Atmospheric Analyzer Trouble	C800/28
96	Drywell Atmospheric Analyzer Trouble	C800/4
97	PMS-1 Failover	CC861/10

Table 8.3-29

PANEL ALARMS WITH LOSS OF POWER
AS POSSIBLE INDIRECT CAUSE

Panel	Indication	Alarm No. / Name	
Y101	Indirect	1	Div. I RHR Out of Service (1)
		5	Div. I CS Out of Service (1)
		9	RCIC Out of Service (1)
		67	Standby Liquid Squib Valve Loss of Continuity
		83	Div. I SPOTMOS Trouble
		94	Turbine Enclosure HVAC Panel C126 Trouble
Y102	Indirect	2	Div. II RHR Out of Service (1)
		6	Div. II CS Out of Service (1)
		10	HPCI Out of Service (1)
		67	Standby Liquid Squib Valve Loss of Continuity
		84	Div. II SPOTMOS Trouble
		94	Turbine Enclosure HVAC Panel C126 Trouble
Y103	Indirect	3	Div. III RHR Out of Service (1)
		7	Div. III CS Out of Service (1)
		67	Standby Liquid Squib Valve Loss of Continuity
Y104	Indirect	4	Div. IV RHR Out of Service (1)
		8	Div. IV CS Out of Service (1)
Y105	Indirect	94	Turbine Enclosure HVAC Panel C126 Trouble
Y106	Indirect	87	CRD Trip Unit Out of Service
		88	CRD Accumulator Trouble
Y201	Indirect	56	RFPT Control Signal Failure
		66	RPIS INOP
		76	North Stack Radiation Monitor Downscale
		77	South Stack Radiation Monitor Downscale
		81	A DW Chiller Loss of Control Power
		93	C RFPT Loss of Power
Y202	Indirect	76	North Stack Radiation Monitor Downscale
		77	South Stack Radiation Monitor Downscale
		82	B DW Chiller Loss of Control Power
AY160	Direct	19	Reactor Isolation System Outboard Out of Service
		20	Reactor Isolation System Inboard Out of Service
		22	RPS System A Out of Service
		54	A RPS / UPS Static Invertor Trouble
		57	IRM Downscale
		58	SRM Downscale
		59	IRM Upscale / Inop
		60	SRM Upscale / Inop
		78	A RPS / UPS Distribution Panel Trouble

Table 8.3-29 (Cont'd)

Panel	Indication	Alarm No. / Name	
BY160	Direct	19	Reactor Isolation System Outboard Out of Service
		20	Reactor Isolation System Inboard Out of Service
		22A	RPS System B Out of Service
		55	B RPS / UPS Static Inverter Trouble
		57	IRM Downscale
		58	SRM Downscale
		59	IRM Upscale / Inop
		60	SRM Upscale / Inop
		79	B RPS / UPS Distribution Panel Trouble
Y109	Indirect	56	RFPT Control Signal Failure
		91	A RFPT Loss of Power
Y110	Indirect	56	RFPT Control Signal Failure
		92	B RFPT Loss of Power
AD102	Direct	1	Div. I RHR Out of Service
		5	Div. I CS Out of Service
		9	RCIC Out of Service
		11	Div. I ESW Out of Service
		15	Div. I Standby ac Power System Out of Service
		21	Div. I ADS Out of Service
		39	PPA1/A3 125V dc Distribution Panel UV
BD102	Direct	2	Div. II RHR Out of Service
		6	Div. II CS Out of Service
		10	HPCI Out of Service
		12	Div. II ESW Out of Service
		16	Div. II Standby ac Power System Out of Service
		41	PPB1/B3 125V dc Distribution Panel UV
CD102	Direct	3	Div. III RHR Out of Service
		7	Div. III CS Out of Service
		9	RCIC Out of Service
		13	Div. III ESW Out of Service
		17	Div. III Standby ac Power System Out of Service
		21A	Div. III ADS Out of Service
		43	PPC1/C3 125V dc Distribution Panel UV
		81	A DW Chiller Loss of Control Power

Table 8.3-29 (Cont'd)

Panel	Indication	Alarm No.	Alarm Name
DD102	Direct	4	Div. IV RHR Out of Service
		8	Div. IV CS Out of Service
		10	HPCI Out of Service
		14	Div. IV ESW Out of Service
		18	Div. IV Standby ac Power System Out of Service
		45	PPD1/D3 125V dc Distribution Panel UV
		82	B DW Chiller Loss of Control Power
AD108	Direct	47	PP01 125V dc Distribution Panel UV
		51	A RFPT Control Voltage Failure
BD108	Direct	48	PP02 125V dc Distribution Panel UV
		52	B RFPT Control Voltage Failure
AY185	Indirect	61	APRM Upscale Trip / Inop
		64	RBM Downscale
BY185	Indirect	61	APRM Upscale Trip / Inop
		64	RBM Downscale
00Y591	Indirect	80	TSC / Computer Trouble
00Y592	Indirect	80	TSC / Computer Trouble
Y163	Indirect	95	SP Atmospheric Analyzer Trouble
Y164	Indirect	96	DW Atmospheric Analyzer Trouble

Note: (1) Panel provides backup feed to system trip units; this alarm will sound only upon concurrent loss of the normal dc supply.

Table 8.3-30

INSTRUMENTS USED TO ACHIEVE COLD SHUTDOWN

Parameter	Instrument #	Bus	Evaluation
Reactor Level	LR42-1R608	Y109,Y110	A
	LI42-1R605	Y201	A
	LI42-1R606A	Y109	A
	LI42-1R606B	Y110	A
	LI42-1R606C	BD108	A
	LI42-1R604	AY160	A
	LI42-1R610	Y101,AD102	A
	LR42-1R615	Y102,BD102	A
	XR42-1R623A	Y101,AD102	A
	XR42-1R623B	Y102,BD102	A
Reactor Pressure	XR42-1R623A	Y101,AD102	A
	XR42-1R623B	Y102,BD102	A
	XR01-1R609	Y105,Y110	A
	PI42-1R605	Y109	A
Vessel Temperature	TR42-1R006	Y202	B
	TR42-1R007	Y202	B
NMS	APRM 1	AY185, BY185	O
	APRM 2	AY185, BY185	O
	APRM 3	AY185, BY185	O
	APRM 4	AY185, BY185	O
	RBM A	AY185, BY185	O
	RBM B	AY185, BY185	O
	SRM A, C	AY160	A
	SRM B, D	BY160	A
	IRM A, C, E, G	AY160	A
	IRM B, D, F, H	BY160	A
	SRM Recorder 602A	BY160	A
	SRM Recorder 602B	BY160	A
	IRM/APRM Recorder 603A	BY160	A
	IRM/APRM Recorder 603B	BY160	A
	IRM/APRM/RBM Recorder 603C	BY160	A
	IRM/APRM/RBM Recorder 603D	BY160	A
RPIS		BY185,Y106,Y201, MCC B130	C
Condenser Vacuum	PR05-101	Y106	D
	PI05-101A	Y106	D
	PI05-101B	Y106	D
	PI05-101C	Y106	D

Table 8.3-30 (Cont'd)

Parameter	Instrument #	Bus	Evaluation
CST level	LR08-102,202	Y106,Y105	F
	LI55-112,212	Y106	F
	LAHL08-112,212	AD108	F
Standby Liquid Control Tank Level	LI48-1R601	Y202	E
Pump Discharge Pressure	PI48-IN600A	Y101,AD102	E
	PI48-IN600B	Y102,BD102	E
	PI48-IN600C	Y103,CD102	E
Suppression Pool Temperature	TRS-041-101	Y101	A
	TRS-041-103	Y102	A
Suppression Pool Level	LI52-140A	Y101,AD102	A
	LI52-140B	Y102	A
	LR55-115	Y105,Y106	A
	LI55-115-1	Y105,Y106	A
Suppression Pool Pressure	PR57-101	Y101,AD102	A
	PR42-101	Y102,BD102	A
Drywell Pressure	PR57-101	Y101,AD102	A
	PI42-170-1	Y102,BD102	A
	PI42-101	Y101,AD102	A
	PI42-170	Y102,BD102	A
Drywell Temperature	TI77-101A-H	Y202	A,D
	TR57-110	Y105	A,D
	TR57-122	Y101	A,D
Turbine 1st Stage Pressure	PI01-112	Y106,Y105	B
CRD System Flow	FI46-R606	Y106	B
HPCI Instrumentation		BD102	G
HPCI Turbine-Pump Temperature	XR - 036-101	Y201	D
	XR - 036-102	Y106	D
HPCI Turbine Vibration	VR56-162	Y102	D
RCIC Instrumentation		AD102	H
Core Spray Instrumentation			
A Loop Flow	FI52-1R601A	Y101,AD102	K
B Loop Flow	FI52-1R601B	Y102,BD102	K
A Loop Disch Pressure	PI52-1R600A	Y101	L
B Loop Disch Pressure	PI52-1R600B	Y102,BD102	L

Table 8.3-30 (Cont'd)

Parameter	Instrument #	Bus	Evaluation
RHR Instrumentation			
A Loop Flow	FI51-1R603A	Y101,AD102	M
B Loop Flow	FI51-1R603B	Y102,BD102	M
C Loop Flow	FI51-1R603C	Y103	M
D Loop Flow	FI51-1R603D	Y104	M
RHR HX A Discharge Pressure	PI51-105A	Y101	M
RHR HX B Discharge Pressure	PI51-105B	Y102	M
Deleted			
Deleted			
Deleted			
Deleted			
Deleted			
Deleted			
RHR Service Water			
A RHR HX Service Water Flow	FI51-1R602A	Y101,AD102	M
B RHR HX Service Water Flow	FI51-1R602B	Y102,BD102	M
RHR SW Loop A Discharge Pressure	PI12-001A	Y101	N
RHR SW Loop B Discharge Pressure	PI12-001B	Y102	N
RHR SW A HX Outlet Rad	RR12 - OR616A	Y103	N
RHR SW B HX Outlet Rad	RR12 - OR616B	Y104	N
RHR SW A Loop Return Rad	RR12 - OR615A	Y101	N
RHR SW B Loop Return Rad	RR12 - OR615B	Y102	N
Emergency Service Water			
ESW A Flow	FI11-013A	Y101	N
ESW B Flow	FI11-013B	Y102	N
ESW A Supply Pressure	PI11-003A	Y101	N
ESW B Supply Pressure	PI11-003B	Y102	N
ADS			
Relief Valve Position Indication	ZYI41-115EF	AY185	A
SRV Outlet Temperature	XR-036-101	Y201	B
	XR-036-102	Y106	B
Containment Instrument Gas			
A Instrument Gas Pressure	PI59-103A	Y103,CD102	B
B Instrument Gas Pressure	PI59-103B	Y104,DD102	B

Table 8.3-30 (Cont'd)

Parameter	Instrument #	Bus	Evaluation
Radiation Monitoring			
NSE-RMS	RMMS 00Y591,00Y592	Y201,Y202	D
SSE-RMS	RMMS 00Y591,00Y592	Y201,Y202	D
PCPL-RMS	RR26-191A, RMMS	Y103,00Y592	A
PCPL-RMS	RR26-191B, RMMS	Y102,00Y592	A
PCPL-RMS	RR26-191C, RMMS	Y103,00Y592	A
PCPL-RMS	RR26-191D, RMMS	Y102,00Y592	A
Containment Atmospheric Control			
Drywell 0_2	AI 57-150	Y164	B
Drywell H_2	AI 57-151	Y164	B
Pool 0_2	AI 57-187	Y163	B
Pool H_2	AI 57-188	Y163	B

EVALUATIONS

A. There is more than one instrument in the control room to monitor this parameter and these instruments are not fed from the same bus; therefore, the loss of one bus will not affect the operator's ability to determine the value of this parameter.

B. This parameter can be determined from other parameters or local instruments if needed. Loss of this parameter would not affect the capability of achieving a cold shutdown condition.

C. The RPIS receives data from the RMCS and is fed from non-Class 1E instrument buses. If power to these buses is lost, rod position indication will be lost in the control room. Loss of rod position indication does not prohibit a manual or automatic SCRAM; therefore, the capability to achieve a cold shutdown condition is not affected by loss of power to the RMCS or the RPIS.

D. Loss of this parameter does not affect the ability to achieve a cold shutdown condition.

E. The SLCS has been redesigned per ATWS requirements. The controls and instrumentation of this system have been designed to perform their function with a single failure; therefore, loss of power to a single division will not prevent the achievement of a cold shutdown condition.

Table 8.3-30 (Cont'd)

F. CST level indication will be lost when Y106 is lost; however, the tank HI/LOW level alarm will still be operable.

G. If power from panel BD102 is lost, the HPCI becomes inoperative. If this occurs, the ADS will be used to depressurize the reactor vessel so that the RCIC and RHR and core spray systems can be used to achieve a cold shutdown condition. Loss of HPCI due to loss of panel BD102 will not affect the ability to achieve a cold shutdown condition.

H. If power from panel AD102 is lost, the RCIC system becomes inoperative. If this occurs, the HPCI system can be used in its place; therefore, the loss of the RCIC system due to the loss of power from panel AD102 will not affect the ability to achieve a cold shutdown condition.

K. Core spray system instrumentation for Loop A is fed from Division 1 Class 1E power. Loop B instrumentation is fed from Division II. Loss of panel Y101 will cause loss of Loop A flow indication in the control room. Loss of Y102 will cause loss of Loop B flow indication. Loss of either of these panels does not affect the operability of the core spray system; therefore, the ability to achieve a cold shutdown condition is not affected.

L. Both of the supply panels must be lost in order to lose indication of this parameter.

M. The RHR system is composed of two redundant loops, each consisting of two pumps and one RHR heat exchanger. The pressure controllers, flow indicators, and pressure indicators for the A loop are fed from separate power panels than those for the B loop. The loss of one bus feeding RHR instrumentation would not affect the operating capability of the RHR system and therefore, would not affect the ability to achieve a cold shutdown.

N. This system has redundant loops. The instrumentation on each loop is fed from separate buses; therefore, the loss of one loop or panel will not affect the ability to achieve a cold shutdown condition with the remaining loop.

O. There is more than one instrument in the control room to monitor this parameter and these instruments are fed by two buses (redundant power); Therefore, the loss of one bus will not affect the operator’s ability to determine the value of this parameter.

Table 8.3-31
(Deleted)

Table 8.3-32

(The information in this table has been relocated to the TRM)