TRANSMITTAL OF PROPOSED CHANGES
TO GRAND GULF TECHNICAL SPECIFICATIONS

1. (GGNS - 687)

SUBJECT: Technical Specification Table 3.3.7.9-1, pages 3/4 3-77 through 3/4 3-80.

DISCUSSION: Technical Specification Table 3.3.7.9-1 provides a listing of fire detection instrumentation. The present table is ordered by building and room numbers within a building whereas the Specification (3.3.7.9) governing the table is ordered by zones. One of the changes to Table 3.3.7.9-1 is to order the table by building, zone numbers within the building, and room numbers within the zone. Other changes to the Fire Detection Instrumentation Table 3.3.7.9-1 include the following:

1. Design Changes
2. Additions to the Table
3. Corrections to the Table

The changes to the table are discussed in detail in the justification section below.

JUSTIFICATION: The following changes to Table 3.3.7.9-1 are the result of design changes made to the fire detection system:

1. In Zone 1-4 for the Control Building, Area OC201 (stairwell) including one smoke detector was added to the table. Safety related cables pass through this area and appropriate fire detection was added to provide coverage.

2. In Zone 1-6 for the Control Building, OC216 (West Corridor) with two smoke detectors was added. Safety related cables pass through this area and appropriate fire detection was added.

3. In Zone 1-23 for the Control Building one smoke detector was added to provide additional coverage.

4. In Zone 2-9 for the Auxiliary Building, one smoke detector was added to provide additional coverage.

The following changes to Table 3.3.7.9-1 constitute additions of areas/zones (and their associated instrumentation) which were inadvertantly left out of the original Technical Specification.

1. Add Zone 1-3 at Elevation 93' in the Control Building. This zone consists of areas OC109 (Decontamination Area), OC115 (Corridor), OC116 (Hot Machine Shop), and OC117 (Corridor). These areas have safety related cable and should be included in the table. A total of 12 smoke detectors is added with these areas.

2. Add area OC306 (Electrical Chase) in Zone 1-10 at Elevation 133' in the Control Building. Safety related cable passes through these areas.

3. Add area OC410 (Battery Room) in Zone 1-14 at Elevation 148' in the Control Building. Specification 3.3.7.9 covers all instrumentation in each Zone listed in Table 3.3.7.9-1 and this area is added to complete the listing for Zone 1-10. The number of Smoke Detectors for Zone 1-10 increased from 7 to 9 as a result of this change.

4. Add Zone 1-12 at Elevation 133' in the Control Building. This zone includes areas OC304 (Electrical Space) and OC305 (Electrical Space). Two additional smoke detectors are added with this change. Safety related cable passes through this zone.

5. Zone 1-13 at Elevation 133' in the Control Building is added since part of Unit 1 control room HVAC equipment is in this zone. Zone 1-13 includes area OC303 (HVAC Room) and adds 16 smoke detectors.

6. Areas OC401 (Corridor), OC408 (Corridor), and OC409 (Electrical Chase) are added to Zone 1-15 along with four additional smoke detectors. Specification 3.3.7.9 covers all instrumentation in each Zone listed in Table 3.3.7.9-1 and these areas (OC401, 408, 409) were added to complete the listing for Zone 1-15.

7. Zone 1-19 at Elevation 166' in the Control Building is added because safety related cable passes through this area. This zone includes area OC514 (Locker Room) and adds 9 smoke detectors.

8. Zone 1-21 at Elevation 166' in the Control Building is added because safety related cable passes through this area. This zone includes area OC518 (Electrical Chase) and adds two smoke detectors.

9. Zone 1-22 at Elevation 177' in the Control Building is added because safety related cable passes through this area. This zone includes areas OC601 (Viewing Gallery), OC603 (Emergency Dormitory), and OC608 (Technical Support) and also adds sixteen smoke detectors.

10. Areas OC706 (West Corridor), OC709 (Electrical Chase) and OC712 (HVAC Room) are added to Zone 1-23 at Elevation 189' in the Control Building. Specification 3.3.7.9 covers all instrumentation in each zone listed in Table 3.3.7.9-1 and these areas are added to complete the listing for Zone 1-23. The number of smoke detectors in Zone 1-23 is increased from 15 to 21 with one being added as a design change and five added with areas OC706, OC709, and OC712.

11. Add areas 1A128 (RHR "A" Heat Ex Room), 1A129 (RHR "B" Heat Ex Room), and 1A223 (Passage) to Zone 2-4 in the Auxiliary Building. Areas 1A128 and 1A129 are separated by grating from 1A102 and 1A106, respectively, and as such smoke detectors in area 1A102 serve 1A128 and in 1A106 serve 1A129. Area 1A223 is an area already served by Zone 2-4 instrumentation and is included to complete the Zone 2-4 listing.

12. Add areas 1A524 (Platform) and 1A529 (FPC and CU Room) to Zone 2-9. These areas are added to complete the listing for Zone 2-9.

13. Add area 1A101 (Passage) to Zone 2-17. This area is currently served by Zone 2-17 instrumentation and should be included.

14. In Zone 2-10 for the Diesel Generator Building, add three smoke detectors due to the addition of the corridor between the Auxiliary Building and Diesel Generator Building.

15. The type of fire protection initiated has been added to the Heat detector column. This administrative change indicates that Halon, CO_2 or Deluge is actuated by the heat detector.

16. The Control Room HVAC Intake Plenum Mounted Detectors have been added since they involve control room habitability.

The following changes to Table 3.3.7.9-1 constitutes correction of errors in the original Technical Specification:

1. Area 0C308 (Corridor) at Elevation 133' in the Control Building is moved from Zone 1-10 to Zone 1-11.

2. The number of heat detectors in Zone 1-14 of the Control Building is corrected from present 13 to 12. This change does not reflect the deletion of a heat detector from the plant but only a correction to the table.

3. The number of Smoke Detectors in 0C503 (Control Room) at Elevation 166' of the Control Building is changed from 17 to 16. This change reflects the temporary split of Unit 1 and Unit 2 Control Rooms. The detector deleted is on the Unit 2 side of the Control Room.

4. Area 1A211 [North Corridor (Partial)] is added to Zone 2-2 of the Auxiliary Building. This area overlaps into Zone 2-2 and also appears in Zone 2-18 as an overlap or interface area.

5. Area 1A314 [South Corridor (Partial)] is added to Zone 2-6 of the Auxiliary Building. This area overlaps into Zone 2-6 and also appears in Zone 2-19 as an overlap or interface area.

6. Area 1A424 [Set Down Area (Partial)] is added to Zone 2-8. This area overlaps into Zone 2-8 and also appears in Zone 2-7 as an overlap or interface area. The number of smoke detectors in Zone 2-7 goes from 12 to 11 and the number in Zone 2-8 goes from 24 to 25 due to Zone assignment of instrumentation.

7. Areas 1A122 [South Corridor (Partial)] and 1A123 [North Corridor (Partial)] are added to Zone 2-14 of the Auxiliary Building. These areas overlap into Zone 2-14 and also appear in Zone 2-17 as an overlap or interface area.

8. Zones 6-9A, 6-9B, and 6-9C for the Diesel Generator Building are corrected to 2-10, 2-11, and 2-12 respectively. Added Corridor between Diesel Generator and Auxiliary Building.

9. Added area numbers for Standby Service Water Pump House. These area numbers were inadvertently omitted.

The format change is proposed in order for the Technical Specification to more accurately reflect the operability of each individual smoke detector affects the entire zone, not just the area in which it is installed.

SIGNIFICANT HAZARDS CONSIDERATION:

The changes to the Fire Detection Instrumentation Table 3.3.7.9-1 constitute additions, corrections, and changes due to design changes to the plant. The design changes add additional equipment and enhance fire detection capability. The additions to the table also enhance fire detection capability. The corrections to the table do not decrease fire detection capability but reflect actual plant systems and instrumentation arrangements. This change does not involve a reduction of safety margins and no significant increase in the probability or consequences of an accident previously evaluated is involved nor is the possibility of a new or different kind of accident from any accident previously evaluated created. Thus the proposed change to the Technical Specifications does not involve any significant hazards considerations.

1. (GGNS-687)

TABLE 3.3.7.9-1

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				MINIMUM INSTRUMENTS OPERABLE*			
				ZONE(1)	HEAT(2)	FLAME	SMOKE(3)
a. Containment Building							
1. Return Duct Mounted Detectors				NA	NA	NA	3
	ROOM NO.	ELEV.	ROOM NAME				
b. Control Building							
1.	OC202	111'	DIV I SWGR RM	1-4	6	NA	4
2.	OC207	111'	DIV I BATTERY RM	1-4	NA	NA	1
3.	OC208	111'	DIV II REMOTE SHUTDOWN PANEL ROOM	1-27	1	NA	1
4.	OC208A	111'	DIV I REMOTE SHUTDOWN PANEL ROOM	1-27	1	NA	1
5.	OC209	111'	DIV III BATTERY RM	1-5	NA	NA	1
6.	OC210	111'	DIV III SWGR RM	1-5	4	NA	2
7.	OC211	111'	DIV II BATTERY RM	1-6	NA	NA	1
8.	OC215	111'	DIV II SWGR RM	1-6	7	NA	4
9.	OC307	133'	ELECTRICAL CHASE	1-10	NA	NA	1
10.	OC308	133'	ELECTRICAL CHASE	1-10	NA	NA	1
11.	OC302	133'	HVAL EQUIP. ROOM	1-11	NA	NA	13
12.	OC402	148'	CABLE SPREADING RM	1-15	7	NA	10
13.	OC403	148'	COMPUTER ROOM	1-14	13	NA	7
14.	OC407	148'	INSTR. MOTOR GEN ROOM	1-15	2	NA	1
15.	OC503 OC504	166'	CONTROL ROOM	1-18	NA	NA	17
16.	OC702	189'	CABLE SPREADING RM	1-23	12	NA	14
17.	OC703	189'	CONTROL CAB. ROOM	1-24	4	NA	6
18.	OC707	189'	INSTR MOTOR GEN. RM	1-23	NA	NA	1

* The fire detection instruments located within the primary containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

(1) Zones apply only to smoke detectors.

(2) Heat detectors provide warning and activation of automatic extinguishing systems.

(3) Smoke detectors provide early warning capability.

(4) Four thermocouples which monitor ambient air temperature will provide early warning capability.

1.(GGNS-687)

TABLE 3.3.7.9-1 (Continued)

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				MINIMUM INSTRUMENTS OPERABLE*			
	ROOM NO.	ELEV.	ROOM NAME	ZONE(1)	HEAT(2)	FLAME	SMOKE(3)
c.	Auxiliary Building						
1.	1A102	93'	RHR 'A' HT EX RM	2-4	NA	NA	1
2.	1A103	93'	RHR 'A' PUMP RM	2-4	NA	NA	2
3.	1A104	93'	RCIC PUMP RM	2-4	NA	NA	2
4.	1A105	93'	RHR 'B' PUMP RM	2-4	NA	NA	2
5.	1A106	93'	RHR 'B' HT EX RM	2-4	NA	NA	1
6.	1A109	93'	HPCS PUMP RM	2-17	NA	NA	2
7.	1A111	93'	PIPING PENETRATION RM	2-17	NA	NA	1
8.	1A114	93'	FAN COIL AREA	2-14	NA	NA	4
9.	1A115	93'	PIPING PENETRATION RM	2-14	NA	NA	1
10.	1A116	93'	PIPING PENETRATION RM	2-14	NA	NA	1
11.	1A117	93'	MISC. EQUIP AREA	2-14	NA	NA	4
12.	1A118	93'	RHR 'C' PUMP ROOM	2-14	NA	NA	2
13.	1A119	93'	LPCS PUMP ROOM	2-14	NA	NA	2
14.	1A120	93'	CCW PUMP AND HX AREA	2-14	NA	NA	3
15.	1A121	103'	EAST CORRIDOR	2-17	NA	NA	5
16.	1A122	103'	SOUTH CORRIDOR	2-17	NA	NA	3
17.	1A123	103'	NORTH CORRIDOR	2-17	NA	NA	5
18.	1A201	119'	EAST CORRIDOR	2-18	NA	NA	6
19.	1A202	119'	RHR 'A' HX RM	2-4	NA	NA	1
20.	1A203	119'	PIPING PENETRATION RM	2-4	NA	NA	2
21.	1A204	119'	PIPING PENETRATION RM	2-4	NA	NA	2
22.	1A205	119'	PIPING PENETRATION RM	2-4	NA	NA	2
23.	1A206	119'	RHR 'B' HX RM	2-4	NA	NA	1
24.	1A207	119'	ELECT. SWGR ROOM	2-4	3	NA	2
25.	1A208	119'	ELECT. SWGR ROOM	2-4	3	NA	2
26.	1A209	115'	RWCU RECIRC PUMP 'A' RM	2-4	NA	NA	1
27.	1A210	115'	RWCU RECIRC PUMP 'B' RM	2-4	NA	NA	1
28.	1A211	119'	NORTH CORRIDOR	2-18	NA	NA	14
29.	1A215	119'	SOUTH CORRIDOR	2-2	NA	NA	5
30.	1A219	119'	ELECT. SWGR RM	2-3	2	NA	2

1. (GGNS-687)

TABLE 3.3.7.9-1 (Continued)

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				MINIMUM INSTRUMENTS OPERABLE*			
	ROOM NO.	ELEV.	ROOM NAME	ZONE(1)	HEAT(2)	FLAME	SMOKE(3)
c. Auxiliary Building (Continued)							
31.	1A220	119'	PIPING PENETRATION RM	2-3	NA	NA	1
32.	1A221	119'	ELECT. SWGR RM	2-3	2	NA	2
33.	1A222	119'	WEST CORRIDOR	2-2	NA	NA	18
34.	1A301	139'	NORTHEAST CORRIDOR	2-6	NA	NA	2
35.	1A302	139'	SOUTHEAST CORRIDOR	2-6	NA	NA	1
36.	1A303	139'	RHR 'A' HX RM	2-6	NA	NA	1
37.	1A304	139'	PIPING PENETRATION RM	2-6	NA	NA	1
38.	1A305	139'	STEAM TUNNEL	2-20	NA(4)	NA	4 NA
39.	1A306	139'	PIPING PENETRATION RM	2-6	NA	NA	1
40.	1A307	139'	RHR 'B' HX RM	2-6	NA	NA	1
41.	1A308	139'	ELECT. PENETRATION RM	2-6	3	NA	2
42.	1A309	139'	ELECT. PENETRATION RM	2-6 2-6	3	NA	2 3
43.	1A314	139'	SOUTH CORRIDOR	2-19	NA	NA	3
44.	1A316	139'	NORTH CORRIDOR	2-6	NA	NA	13
45.	1A318	139'	ELECT. PENETRATION RM	2-5	2	NA	2
46.	1A319	139'	RPV INSTR. TEST RM	2-5	NA	NA	1
47.	1A320	139'	ELECT. PENETRATION RM	2-5	2	NA	2
48.	1A321	139'	MCC AREA	2-19	NA	NA	3
49.	1A322	139'	CENTRIFUGAL CHILLER AREA	2-19	NA	NA	4
50.	1A323	139'	SGTS AREA	2-19	NA	NA	1
51.	1A324	139'	HVAC EQUIP AREA	2-19	NA	NA	1
52.	1A326	139'	SGTS AREA	2-19	NA	NA	1
53.	1A401	166'	NORTHEAST CORRIDOR	2-8	NA	NA	2
54.	1A402	166'	STEAM TUNNEL ROOF	2-8	NA	NA	1
55.	1A403	166'	SOUTHEAST CORRIDOR	2-8	NA	NA	2
56.	1A404	166'	UNASSIGNED AREA	2-8	NA	NA	1
57.	1A405	166'	CNTMT VENT. EQUIP RM	2-8	NA	NA	1
58.	1A406	166'	CNTMT EXHAUST FILTER AND VENT ROOM	2-8	NA	NA	1

1. (GGNS-687)

TABLE 3.3.7.9-1 (Continued)

FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				MINIMUM INSTRUMENTS OPERABLE*			
	ROOM NO.	ELEV.	ROOM NAME	ZONE(1)	HEAT(2)	FLAME	SMOKE(3)
c. Auxiliary Building (Continued)							
59.	1A407	166'	MCC AREA	2-8	2	NA	1
60.	1A410	166'	MCC AREA	2-8	2	NA	1
61.	1A417	166'	NORTH CORRIDOR	2-8	NA	NA	14
62.	1A420	166'	SOUTH CORRIDOR	2-7	NA	NA	4
63.	1A424	166'	SET DOWN AREA	2-7	NA	NA	2
64.	1A428	166'	WEST CORRIDOR	2-7	NA	NA	4
65.	1A432	166'	FPC AND CU PUMP RM	2-7	NA	NA	1
66.	1A434	166'	PASSAGE	2-7	NA	NA	1
67.	1A519	185'	STORAGE AREA	2-9	NA	NA	4
68.	1A527	185'	LOAD CENTER AREA	2-9	NA	NA	5
69.	1A539	185'	CABLE CHASE	2-15	NA	NA	1
70.	1A602	208'10"	STORAGE AREA	2-13	NA	NA	6
71.	1A603	208'10"	PASSAGE	2-13	NA	NA	3
72.	1A604	208'10"	FUEL HANDLING AREA	2-13	NA	NA	13
73.	1A606	245'	HVAC EQUIP AREA	2-13	NA	NA	9
d. Diesel Generator Building							
1.	Unit 1 El. 158'-0" HPCS Generator			6-9A	7	6	NA
2.	Unit 1 El. 158'-0" Bus B Generator			6-9B	7	6	NA
3.	Unit 1 El. 158'-0" Bus A Generator			6-9C	7	6	NA
e. Standby Service Water Pump House							
1.	Pump House A			2-1	NA	NA	1
2.	Valve Room A			2-1	NA	NA	1
3.	Pump House B			2-1	NA	NA	1
4.	Valve Room B			2-1	NA	NA	1
f. Charcoal Filter Trains							
1.	Standby Gas Treatment System Filter Train Auxiliary Building El. 139'-0"			NA	1 (Allison Thermistor Wire)	NA	NA
2.	Control Room Standby Fresh Air System Filter Train, Control Building El. 133'-0"			NA	1 (Allison Thermistor Wire)	NA	NA

1.(GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

INSTRUMENT LOCATION				MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
a.	CONTAINMENT BUILDING					3
	1. Return Duct Mounted Detectors					
	ROOM	ELEV	ROOM NAME			
b.	CONTROL BUILDING					
	1. Zone 1-3					12
	OC109	93'	Decontamination Area			
	OC115	93'	Corridor			
	OC116	93'	Hot Machine Shop			
	OC117	93'	Corridor			
	2. Zone 1-4					6
	OC201	111'	Stairwell			
	OC202	111'	Div I Swgr Rm	6(CO_2)		
	OC207	111'	Div I Battery Rm			
	3. Zone 1-5					3
	OC209	111'	Div III Battery Rm			
	OC210	111'	Div III Swgr Rm	4(CO_2)		

* The fire detection instruments located within the primary containment are not required to be OPERABLE during the performance of Type A Containment Leakage Rate Tests.

(1) Smoke and flame detectors provide only early warning capability with the exception of:

(a) Zone 1-27 detectors trip closed the door between the OC208/OC208A Remote Shutdown panel rooms.
(b) Containment building return duct mounted detectors' trip the containment cooler fans.
(c) Zone 1-11 and 1-13 detectors initiate the control building purge fan system.
(d) Control Room HVAC Intake Plenum Detectors trip the control room A/C units unless a control room emergency filtration system isolation mode automatic actuation signal is present.

(2) Heat detectors provide warning and activation of automatic extinguishing systems with the exception of the CO_2 fire suppression system for the control cabinet room (OC703, Elevation 189' of the Control Building) which requires manual actuation.

1.(GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
4.	Zone 1-6					7
	OC211	111'	Div II Battery Rm			
	OC215	111'	Div II Swgr Rm	7(CO_2)		
	OC216	111'	West Corridor			
5.	Zone 1-10					2
	OC306	133'	Electrical Chase			
	OC307	133'	Electrical Chase			
6.	Zone 1-11					13
	OC302	133'	HVAC Equipment Rm			
	OC308	133'	Corridor			
7.	Zone 1-12					2
	OC304	133'	Electrical Space			
	OC305	133'	Electrical Space			
8.	Zone 1-13					16
	OC303	133'	HVAC Room			
9.	Zone 1-14					9
	CC403	148'	Computer Room	12(Halon)		
	OC410	148'	Battery Room			
10.	Zone 1-15					15
	OC401	148'	Corridor			
	OC402	148'	Lower Cable Spreading Room	7(CO_2)		
	OC407	148'	Instr. Motor Gen Rm	2(CO_2)		
	OC408	148'	Corridor			
	OC409	148'	Electrical Chase			
11.	Zone 1-18					16
	OC503	166'	Control Rm (Unit 1 Side)			
	OC504	166'	U-1 Inst Rack Area			
12.	Zone 1-19					9
	OC514	166'	Locker Room			

1.(GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
13. Zone 1-21						2
	OC518	166'	Electrical Chase			
14. Zone 1-22						16
	OC601	177'	Viewing Gallery			
	OC603	177'	Emergency Dormitory			
	OC608	177'	Technical Support			
15. Zone 1-23						21
	OC702	189'	Upper Cable Spreading Room	12(CO_2)		
	OC706	189'	West Corridor			
	OC707	189'	Instr. Motor Gen Rm			
	OC709	189'	Electrical Chase			
	OC712	189'	HVAC Room			
16. Zone 1-24						6
	OC703	189'	Control Cabinet Area	4(CO_2)		
17. Zone 1-27						2
	OC208	111'	Div I Remote Shutdown Panel	1(CO_2)		
	OC208A	111'	Div II Remote Shutdown Panel	1(CO_2)		
18. Control Roon HVAC Intake Plenum Mounted Detectors						2
c. AUXILIARY BUILDING						
1. Zone 2-2						23
	1A211	119'	North Corridor (Partial)			
	1A215	119'	South Corridor			
	1A222	119'	West Corridor			
2. Zone 2-3						5
	1A219	119'	Electrical Swgr Rm	2(CO_2)		
	1A220	119'	Piping Penetration Rm			
	1A221	119'	Electrical Swgr Rm	2(CO_2)		

1. (GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
3.	Zone 2-4					22
	1A102	93'	RHR "A" Heat Ex Rm			
	1A103	93'	RHR "A" Pump Rm			
	1A104	93'	RCIC Pump Rm			
	1A105	93'	RHR "B" Pump Rm			
	1A106	93'	RHR "B" Heat Ex Rm			
	1A128	108'	RHR "A" Heat Ex Rm			
	1A129	108'	RHR "B" Heat Ex Rm			
	1A202	119'	RHR "A" Heat Ex Rm			
	1A203	119'	Piping Penetration Rm			
	1A204	119'	Piping Penetration Rm			
	1A205	119'	Piping Penetration Rm			
	1A206	119'	RHR "B" Heat Ex Rm			
	1A207	119'	Electrical Swgr Rm	3(CO_2)		
	1A208	119'	Electrical Swgr Rm	3(CO_2)		
	1A209	115'	RWCU Recirc Pump "A" Rm			
	1A210	115'	RWCU Recirc Pump "B" Rm			
	1A223	128'	Passage			
4.	Zone 2-5					5
	1A318	139'	Electrical Penetration Room	3(CO_2)		
	1A319	139'	RPV Instr Test Rm			
	1A320	139'	Electrical Penetration Room	2(CO_2)		
5.	Zone 2-6					26
	1A301	139'	East Corridor			
	1A302	139'	Southeast Corridor			
	1A303	139'	RHR "A" Heat Ex Rm			
	1A304	139'	Piping Penetration Rm			
	1A306	139'	Piping Penetration Rm			
	1A307	139'	RHR "B" Heat Ex Rm			
	1A308	139'	Electrical Penetration Room	3(CO_2)		
	1A309	139'	Electrical Penetration Room	3(CO_2)		
	1A314	139'	South Corridor (Partial)			
	1A316	139'	North Corridor			

1. (GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
6.	Zone 2-7					11
	1A420	166'	South Corridor (Partial)			
	1A424	166'	Set Down Area (Partial)			
	1A428	166'	West Corridor			
	1A432	166'	FPC & CU Pump Rm			
	1A434	166'	South Passage			
7.	Zone 2-8					25
	1A401	166'	Northeast Corridor			
	1A402	166'	Steam Tunnel Roof			
	1A403	166'	Southeast Corridor			
	1A404	166'	Unassigned Area			
	1A405	166'	Containment Vent. Equip Room			
	1A406	166'	Containment Exhaust Filter Rm			
	1A407	166'	MCC Area	2(CO_2)		
	1A410	166'	MCC Area	2(CO_2)		
	1A417	166'	North Corridor (Partial)			
	1A424	166'	Set Down Area (Partial)			
8.	Zone 2-9					10
	1A519	185'	Storage Area			
	1A524	195'	Platform			
	1A527	185'	Load Center Area			
	1A529	185'	FPC & CU Rm			
9	Zone 2-13					31
	1A602	208'	Storage Area			
	1A603	208'	Passage			
	1A604	208'	Fuel Handling Area			
	1A606	245'	HVAC Equip Area			
10.	Zone 2-14					17
	1A114	93'	Fan Coil Area			
	1A115	93'	Piping Penetration Rm			
	1A116	93'	Piping Penetration Rm			
	1A117	93'	Misc Equip Area			
	1A118	93'	RHR "C" Pump Room			

1.(GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
	1A119	93'	LPCS Pump Room			
	1A120	93'	CCW Pump & Heat Ex Rm			
	1A122	103'	South Corridor (Partial)			
	1A123	103'	North Corridor (Partial)			
11.	Zone 2-15					1
	1A539	185'	Cable Chase			
12.	Zone 2-17					16
	1A101	93'	Passage			
	1A109	93'	HPCS Pump Rm			
	1A111	93'	Piping Penetration Rm			
	1A121	103'	East Corridor			
	1A122	103'	South Corridor (Partial)			
	1A123	103'	North Corridor (Partial)			
13.	Zone 2-18					20
	1A201	119'	East Corridor			
	1A211	119'	North Corridor (Partial)			
14.	Zone 2-19					13
	1A314	139'	South Corridor (Partial)			
	1A321	139'	MCC Area			
	1A322	139'	Centrifugal Chiller Area			
	1A323	139'	SGTS Area			
	1A324	139'	HVAC Equip Area			
	1A326	139'	SGTS Area			
15.	Zone 2-20					2
	1A305	139'	Steam Tunnel			
d.	DIESEL GENERATOR BUILDING					
1.	Zone 2-10				6	3
	1D301	133'	Corridor	3 (Deluge)		
	1D306	133'	Div III Diesel Gen Room			
	1D401	158'	Div III Diesel Gen Room	7 (Deluge)		

1. (GGNS-687)

TABLE 3.3.7.9-1
FIRE DETECTION INSTRUMENTATION

	ROOM	ELEV	ROOM NAME	MINIMUM INSTRUMENTS OPERABLE* HEAT(2)	FLAME(1)	SMOKE(1)
2.	Zone 2-11				6	
	1D308	133'	Div II Diesel Gen Room			
	1D402	158'	Div II Diesel Gen Room	7 (Deluge)		
3.	Zone 2-12				6	
	1D310	133'	Div I Diesel Gen Room			
	1D403	158'	Div I Diesel Gen Room	7 (Deluge)		
e.	STANDBY SERVICE WATER PUMP HOUSE					
1.	Zone 2-1					4
	1M110	133'	SSW Pump Rm A			
	1M112	133'	SSW Valve Rm A			
	2M110	133'	SSW Pump Rm B			
	2M112	133'	SSW Valve Rm B			
f.	CHARCOAL FILTER TRAINS					
1.	Standby Gas Treatment System Filter Train			1 (Allison Thermistor Wire)		
	Auxiliary Building El. 139'					
2.	Control Room Standby Fresh Air System Filter Train			1 (Allison Thermistor Wire)		
	Control Building El. 133'					