Duke Power Company
Catawba Nuclear Station
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DUKE POWER

October 19, 1992

RE: Catawba Nuclear Station
Selected Licensee Commitments
Effective 10/92

Attached are revisions to the Catawba Nuclear Station Selected Licensee Commitments. Please revise your copy as follows:

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Any questions should be directed to me at 803-831-3237.

Kay E. Nicholson

Kay E. Nicholson
Regulatory Compliance

Attachments

A001

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SELECTED LICENSEE COMMITMENTS MANUAL

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Appendix

16.9 AUXILIARY SYSTEMS - FIRE PROTECTION SYSTEMS

16.9-6 FIRE DETECTION INSTRUMENTATION

COMMITMENT:

As a minimum, the fire detection instrumentation for each fire detection zone shown in Table 16.9-3 shall be OPERABLE.

APPLICABILITY:

Whenever equipment protected by the fire detection instrument is required to be OPERABLE.

REMEDIAL ACTION:

a. With any, but not more than one-half the total in any fire zone, Function A fire detection instruments shown in Table 16.9-3 inoperable, restore the inoperable instrument(s) to OPERABLE status within 14 days or within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5.

b. With more than one-half of the Function A fire detection instruments in any fire zone shown in Table 16.9-3 inoperable, or with any Function B fire detection instruments shown in Table 16.9-3 inoperable, or with any two or more adjacent fire detection instruments shown in Table 16.9-3 inoperable, within 1 hour establish a fire watch patrol to inspect the zone(s) with the inoperable instrument(s) at least once per hour, unless the instrument(s) is located inside the containment, then inspect that containment zone at least once per 8 hours or monitor the containment air temperature at least once per hour at the locations listed in Specification 4.6.1.5.

TESTING REQUIREMENTS:

a. Each of the above required flame detection instruments shall be demonstrated OPERABLE at least once per 6 months by performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST.

Each of the above required smoke detection instruments which are accessible during plant operation shall be demonstrated OPERABLE at least once per 6 months by the performance of a VISUAL INSPECTION and at least once per year by performance

of a TRIP ACTUATING DEVICE OPERATIONAL TEST. Detectors which are not accessible during plant operation shall be demonstrated operable by the performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST during each refueling outage.

All spot type heat detectors which are accessible during plant operation shall be VISUALLY INSPECTED at least once per 6 months.

Each of the above required heat detection instruments shall be demonstrated OPERABLE as follows:

i. For nonrestorable spot-type detectors, at least two detectors out of every hundred, or fraction thereof, shall be removed every 5 years and functionally tested. For each failure that occurs on the detectors removed, two additional detectors shall be removed and tested; and,

ii. For restorable spot-type heat detectors which are accessible during plant operation, at least one detector on each signal initiating circuit shall be demonstrated OPERABLE at least once per 6 months by performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST. Different detectors shall be selected for each test. Fire detectors which are not accessible during plant operation shall be demonstrated OPERABLE by the performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST during each refueling outage.

b. The NFPA Standard 72D supervised circuits supervision associated with the detector alarms of each of the above required fire detection instruments shall be demonstrated OPERABLE at least once per 6 months.

REFERENCES:

1) Catawba FSAR, Section 9.5.1

2) Catawba SER, Section 9.5.1

3) Catawba SER, Supplement 2, Section 9.5.1

4) Catawba SER, Supplement 3, Section 9.5.1

5) Catawba Fire Protection Review, as Revised

6) Catawba Fire Protection Commitment Index

TABLE 16.9-3
FIRE DETECTION INSTRUMENTS
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FIRE ZONE	DESCRIPTION	LOCATION		MINIMUM INSTRUMENTS OPERABLE* SMOKE	FLAME	HEAT	FUNCTION**
76	Aisles/Cables	PP-54	El.594 + 0	15	0	0	A
79	Elect Pen Room	BB-63	El.594 + 0	11	0	0	A
80	Control Room	BB-59	El.594 + 0	22	0	6	A
81	Vent Equip Room	FF-58	El.594 + 0	12	0	0	A
82	Aisles/Cables	KK-58	El.594 + 0	27	0	0	A
84	Aisles/Cables	NN-58	El.594 + 0	17	0	0	A
89	Fuel Pool Area (Unit 1)	PP-50	El.605 + 10	19	7	0	A
90	Fuel Pool Area (Unit 2)	PP-64	El.605 + 10	19	7	0	A
129	Fuel Pool Purge Room (Unit 1)	NN-50	El.63' + 6	6	0	0	A
131	Reactor Bldg	0°-45°	Bel. El.565 + 3	4	0	0	A
132	Reactor Bldg	45°-90°	Bel. El.565 + 3	3	0	0	A
133	Reactor Bldg	90°-135°	Bel. El.565 + 3	4	0	0	A
134	Reactor Bldg	135°-180°	Bel. El.565 + 3	5	0	0	A
135	Reactor Bldg	180°-225°	Bel. El.565 + 3	4	0	0	A
136	Reactor Bldg	270°-315°	Bel. El.565 + 3	3	0	0	A
137	Reactor Bldg	315°-0°	Bel. El.565 + 3	8	0	0	A
138	Reactor Bldg	0°-45°	Bel. El.586 + 3	6	0	0	A
139	Reactor Bldg	45°-90°	Bel. El.586 + 3	4	0	0	A
140	Reactor Bldg	90°-135°	Bel. El.565 + 3	3	0	0	A
141	Reactor Bldg	135°-180°	Bel. El.586 + 3	8	0	0	A
142	Reactor Bldg	180°-225°	Bel. El.586 + 3	5	0	0	A
143	Reactor Bldg	315°-0°	Bel. El.586 + 3	5	0	0	A
144	Reactor Bldg	0°-45°	Bel. El.593 + 2½	14	0	0	A
145	Reactor Bldg	45°-90°	Bel. El.593 + 2½	17	0	0	A
146	Reactor Bldg	90°-135°	Bel. El.593 + 2½	11	0	0	A
147	Reactor Bldg	135°-180°	Bel. El.593 + 2½	10	0	0	A
148	Reactor Bldg	180°-225°	Bel. El.593 + 2½	2	0	0	A
149	Reactor Bldg	315°-0°	Bel. El.593 + 2½	7	0	0	A
150	Reactor Bldg (Unit 2)	0°-45°	Bel. El.565 + 3	4	0	0	A
151	Reactor Bldg (Unit 2)	45°-90°	Bel. El.565 + 3	3	0	0	A
152	Reactor Bldg (Unit 2)	90°-135°	Bel. El.565 + 3	4	0	0	A
153	Reactor Bldg (Unit 2)	135°-180°	Bel. El.565 + 3	5	0	0	A
154	Reactor Bldg (Unit 2)	180°-225°	Bel. El.565 + 3	3	0	0	A

TABLE 16.9-3
FIRE DETECTION INSTRUMENTS
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FIRE ZONE	DESCRIPTION	LOCATION	MINIMUM INSTRUMENTS OPERABLE* SMOKE	FLAME	HEAT	FUNCTION**
182d	Annulus	El.629 + 5	0	0	1	A
182e	Annulus	El.649 + 5	0	0	1	A
182f	Annulus	El.664 + 0	0	0	1	A
183	Fuel Pool Purge Room (Unit 2)	NN-64 El.631 + 6	6	0	0	A
212	Aisles/Cables	GG-57 El.522 + 0	2	0	0	A
213	Aux Battery Room	AA-55 El.544 + 0	4	0	0	A
214	Aux Control Power Batteries	AA-59 El.560 + 0	4	0	0	A
215	D/G Corridor	BB-45 El.556 + 0	3	0	0	A
216	D/G Corridor	AA-45 El.556 + 0	2	0	0	A
217	D/G Corridor	CC-71 El.560 + 0	3	0	0	A
218	D/G Corridor	BB-71 El.560 + 0	2	0	0	A
219	Mech Pen Room	HH-52 El.577 + 0	6	0	0	A
220	Mech Pen Room	JJ-62 El.577 + 0	6	0	0	A
222	Airlock Access (Unit 1)	JJ-51 El.605 + 10	1	0	0	A
224	Airlock Access (Unit 2)	JJ-63 El.605 + 10	1	0	0	A
225	RN Pump Structure	West Section El.600 + 0	8	0	0	A
226	RN Pump Structure	East Section El.600 + 0	8	0	0	A
231	Reactor Bldg (Unit 1)	260°-303° Bel. El.668 +10	10	0	0	A
232	Reactor Bldg (Unit 2)	260°-303° Bel. El.668 +10	10	0	0	A
184	HVAC Duct for Rooms 331 and 332	FF-53 El.543 + 0	1(Duct)	0	0	A
185	HVAC Duct for Rooms 203, 205 205A, 206A, 206B, 207 and 209A	MM-60 El.543 + 0	1(Duct)	0	0	A
186	HVAC Duct for Rooms 301, 302, 305, and 307	NN-60 El.560 + 0	1(Duct)	0	0	A
RF1A	Diesel Generator 1A	EE-41 El.556 + 0	0	0	0(10)	A(B)
RF1B	Diesel Generator 1B	AA-41 El.556 + 0	0	0	0(10)	A(B)
RF2A	Diesel Generator 2A	EE-72 El.556 + 0	0	0	0(10)	A(B)
RF2B	Diesel Generator 2B	AA-72 El.556 + 0	0	0	0(10)	A(B)

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

** Function A: Early warning fire detection and notification only.
Function B: Actuation of fire suppression system and early warning and notification.