

ENCLOSURE 3

VOGTLE ELECTRIC GENERATING PLANT
REQUEST TO REVISE TECHNICAL SPECIFICATIONS
ACCIDENT MONITORING INSTRUMENTATION

PROPOSED TECHNICAL SPECIFICATION CHANGES

INDEX

LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

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INSTRUMENTATION

ACCIDENT MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.6 The accident monitoring instrumentation channels shown in Table 3.3-8 shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTION: As shown in Table 3.3-8

SURVEILLANCE REQUIREMENTS

4.3.3.6.1 Each accident monitoring instrumentation channel shall be demonstrated OPERABLE:

- a. Every 31 days by performance of a CHANNEL CHECK, and
- b. Every 18 months by performance of a CHANNEL CALIBRATION.

4.3.3.6.2 In addition to the above, each containment hydrogen concentration channel shall be demonstrated OPERABLE by performance of a CHANNEL CALIBRATION at least once per 6 months on a STAGGERED TEST BASIS using sample gas containing:

- a. One volume percent hydrogen, balance nitrogen, and
- b. Four volume percent hydrogen, balance nitrogen.

TABLE 3.3-8

ACCIDENT MONITORING INSTRUMENTATION

INSTRUMENT	TOTAL NO. OF CHANNELS	REQUIRED CHANNELS MINIMUM CHANNELS OPERABLE	ACTION
1. Reactor Coolant Pressure (Wide Range) (Loop 408, 418, 428, & 438)	4	2+	31 37
2. Reactor Coolant System Thot (Wide Range) (Loop 413A, 423A, 433A & 443A)	1/loop	1/loop	35 37
3. Reactor Coolant System T _{cold} (Wide Range) (Loop 413B, 423B, 433B & 443B)	1/loop	1/loop	36 37
4. SG Water Level (Wide Range) (Loop 501, 502, 503 & 504)	1/SG	1/SG	37 37
5. SG Water Level (Narrow Range) (Loop 517, 518, 519, 527, 528, 529, 537, 538, 539, 547, 548, 549, 551, 552, 553, 554)	4/SG	2 4 /SG	31 37
6. Pressurizer Level (Loop 459, 460, 461)	3	2+	31
7. Containment Pressure (Loop 934, 935, 936, 937)	4	2+	31 37
8. Steamline Pressure (Loop 514, 515, 516, 524, 525, 526, 534, 535, 536, 544, 545 & 546)	3/stm. line	2 4 /stm. line	31
9. RWST Level (Loop 990, 991, 992 & 993)	4	2+	31 37
10. Containment Normal Sumps Level (Narrow Range) (Loop 7777 & 7789)	2	2+	31 37
11. Containment Water Level (Wide Range) (Loop 0764 & 0765)	2	2+	31 37

VOGTLE UNITS - 1 & 2

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Amendment No. 67
Amendment No. 46
(Unit 1)
(Unit 2)

TABLE 3.3-8 (Continued)

ACCIDENT MONITORING INSTRUMENTATION

INSTRUMENT	TOTAL NO. OF CHANNELS	REQUIRED CHANNELS MINIMUM CHANNELS OPERABLE	ACTION
12. Condensate Storage Tank Level (Loop 5101, 5111, 5104 & 5116)	2/tank	2+/tank	31 ae
13. Auxiliary Feedwater Flow (Loop 5152, 15152, 5153, 15153, 5151, 15151, 5150 & 15150)	2/feed line	2+/feed line	31 ae
14. Containment Radiation Level (High Range) (Loop 0005 & 0006)	2	2+	34 ae
15. Steamline Radiation Monitor (Loop 13119, 13120, 13121 & 13122)	1/stm. line	1/stm. line	38 ae
16. Core Exit Thermocouples	4/quad/train	2/quad/train	31
17. Reactor Coolant System Subcooling	2	2+	31 ae
18. Neutron Flux (Extended Range) (Loop 13135A & 13135B)	2	2+	31 ae
19. RVLIS	2	2+	34 ae
20. Containment Hydrogen Concentration (Loop 12979 & 12980)	2	2+	33
21. Containment Pressure (Extended Range) (Loop 10942 & 10943)	2	2+	31 ae
22. Containment Isolation Valve Position Indication*	1/valve	1/valve	32 ae

*Applicable for containment isolation valve position indication designated as post-accident monitoring instrumentation (containment isolation valves which receive containment isolation Phase A or containment ventilation isolation signals). Not required for isolation valves whose associated penetration is isolated by at least one closed and deactivated automatic valve, closed manual valve, blind flange, or check valve with flow through the valve secured.

VOGTELE UNITS - 1 & 2

3/4 3-60

Amendment No. 67
Amendment No. 46
(Unit 1)
(Unit 2)

Replace with Insert
for Table 3.3-8
ACTION STATEMENTS

TABLE 3.3-8 (Continued)

ACTION STATEMENTS

ACTION 31	- a.	With the number of OPERABLE channels one less than the Total Number of Channels requirement, restore the inoperable channel to OPERABLE status within 31 days, or be in at least HOT SHUTDOWN within the next 12 hours.
	b.	With the number of OPERABLE channels two less than the Total Number of Channels requirement, restore at least one inoperable channel to OPERABLE status within 7 days, or be in at least HOT SHUTDOWN within the next 12 hours.
	c.	With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, restore at least one inoperable channel to OPERABLE status within 48 hours or be in HOT SHUTDOWN within the next 12 hours.
	d.	The provisions of Specification 3.0.4 are not applicable.
ACTION 32	- a.	With the number of OPERABLE channels one less than the Total Number of Channels requirement, restore one inoperable channel to OPERABLE status within 7 days, or be in at least HOT SHUTDOWN within the next 12 hours.
	b.	With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, restore at least one inoperable channel to OPERABLE status within 48 hours, or be in HOT SHUTDOWN within the next 12 hours.
	c.	The provisions of Specification 3.0.4 are not applicable.
ACTION 33	- a.	With the number of OPERABLE channels less than the Total Number of Channels requirement, comply with the provisions of Specification 3.6.4.1.
	b.	The provisions of Specification 3.0.4 are not applicable.
ACTION 34	-	With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, restore at least one inoperable channel to OPERABLE status within 48 hours, or be in HOT SHUTDOWN within the next 12 hours. The provisions of Specification 3.0.4 are not applicable.
ACTION 35	-	With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, initiate the alternate method of monitoring the parameter within 72 hours and either restore the inoperable channel(s) to OPERABLE status within 7 days or prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days that provides actions taken, cause of the inoperability, and the plans and schedule for restoring the channels to OPERABLE status.

TABLE 3.3-8 (Continued)

ACTION STATEMENTS

- ~~ACTION 36 - With the number of OPERABLE channels less than the required number of channels or the Minimum Channels OPERABLE requirement, restore the inoperable channel(s) to OPERABLE status as per Action 32a or 33a as applicable if repair is feasible during plant operation. If repair is not feasible, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2 within 14 days that provides actions taken, cause of the inoperability, and the plans and schedule for restoring the channels to OPERABLE status. The provisions of Specification 3.0.4 are not applicable.*~~
- ~~ACTION 37 - a. With the number of OPERABLE channels two less than the Total Number of Channels requirement, restore the inoperable channel to OPERABLE status within 31 days, or be in at least HOT SHUTDOWN within the next 12 hours.~~
- ~~b. With the number of OPERABLE channels three less than the Total Number of Channels requirement, restore at least one inoperable channel to OPERABLE status within 7 days, or be in at least HOT SHUTDOWN within the next 12 hours.~~
- ~~c. With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, restore at least one inoperable channel to OPERABLE status within 48 hours or be in HOT SHUTDOWN within the next 12 hours.~~
- ~~d. The provisions of Specification 3.0.4 are not applicable.~~
- ~~ACTION 38 - With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, comply with the provisions of Specification 3.6.3. for an inoperable containment isolation valve.~~

~~Action Statement 36 applies to the first fuel cycle only. Action Statement 32 is applicable thereafter.~~

INSERT FOR TABLE 3.3-8 ACTION STATEMENTS

- ACTION 31 - a. With one required channel inoperable, restore the inoperable channel to OPERABLE status within 30 days. Otherwise, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.
- b. With two required channels inoperable, restore at least one channel to OPERABLE status within 7 days, or be in at least HOT SHUTDOWN within the next 12 hours.
- c. The provisions of Specification 3.0.4 are not applicable.
- ACTION 32 - With one required channel inoperable, restore the required channel to OPERABLE status within 30 days. Otherwise prepare and submit a Special Report, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel(s) to OPERABLE status.
- ACTION 33 - a. With one required channel inoperable, restore the inoperable channel to OPERABLE status within 30 days. Otherwise, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.
- b. With two required channels inoperable, restore at least one channel to OPERABLE status within 72 hours, or be in at least HOT SHUTDOWN within the next 12 hours.
- c. The provisions of Specification 3.0.4 are not applicable.
- ACTION 34 - a. With one required channel inoperable, restore the inoperable channel to OPERABLE status within 30 days. Otherwise, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.
- b. With two required channels inoperable, restore at least one channel to OPERABLE status within 7 days. Otherwise, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days

INSERT FOR TABLE 3.3-8 ACTION STATEMENTS (CONTINUED)

outlining the actions taken (including any preplanned alternate methods of monitoring), the cause of the inoperability, and the plans for restoring the inoperable channels to OPERABLE status.

ACTION 35 - a. With a required channel inoperable and at least two core exit thermocouples per quadrant OPERABLE, restore the required channel to OPERABLE status within 30 days. If the required channel is not restored to OPERABLE status within 30 days, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.

b. With a required channel inoperable and less than two core exit thermocouples per quadrant OPERABLE, apply ACTION 31 associated with the core exit thermocouples.

ACTION 36 - a. With a required channel inoperable and at least one channel of steamline pressure OPERABLE for the affected loop, restore the required channel to OPERABLE status within 30 days. If the required channel is not restored to OPERABLE status within 30 days, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.

b. With a required channel inoperable and all steamline pressure channels inoperable for the affected loop, apply ACTION 31 for steamline pressure.

ACTION 37 - a. With a required channel inoperable and at least one channel of auxiliary feedwater flow OPERABLE for the affected loop, restore the required channel to OPERABLE status within 30 days. If the required channel is not restored to OPERABLE status within 30 days, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.

b. With a required channel inoperable and all auxiliary feedwater flow channels inoperable for the affected loop, apply ACTION 31 for auxiliary feedwater flow.

INSERT FOR TABLE 3.3-8 ACTION STATEMENTS (CONTINUED)

- ACTION 38 - a. With a required channel inoperable and at least one channel of steam generator water level (narrow range) OPERABLE for the affected loop, restore the required channel to OPERABLE status within 30 days. If the required channel is not restored to OPERABLE status within 30 days, prepare and submit a Special Report to the Commission, pursuant to Specification 6.8.2, within 14 days outlining the actions taken (including the preplanned alternate method of monitoring), the cause of the inoperability, and the plans and schedule for restoring the inoperable channel to OPERABLE status.
- b. With a required channel inoperable and all steam generator water level (narrow range) channels inoperable for the affected loop, apply ACTION 31 for steam generator water level (narrow range).

CONTAINMENT SYSTEMS

3/4.6.4 COMBUSTIBLE GAS CONTROL

HYDROGEN MONITORS

Specification 3/4.6.4.1 deleted.

MITTING CONDITION FOR OPERATION

3.6.4.1 Two independent containment hydrogen monitors (AI-12979, AI-12980) shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

ACTION:

- a. With one hydrogen monitor inoperable, restore the inoperable monitor to OPERABLE status within 30 days or be in at least HOT STANDBY within the next 6 hours.
- b. With both hydrogen monitors inoperable, restore at least one monitor to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours.

SURVEILLANCE REQUIREMENTS

4.6.4.1 Each hydrogen monitor (AI-12979, AI-12980) shall be demonstrated OPERABLE by the performance of a CHANNEL CHECK at least once per 12 hours, an ANALOG CHANNEL OPERATIONAL TEST at least once per 31 days, and at least once per 92 days on a STAGGERED TEST BASIS by performing a CHANNEL CALIBRATION using sample gas containing:

- a. One volume percent hydrogen, balance nitrogen, and
- b. Four volume percent hydrogen, balance nitrogen.

CONTAINMENT SYSTEMS

BASES

3/4.6.2.3 CONTAINMENT COOLING SYSTEM

The OPERABILITY of the Containment Cooling System ensures that: (1) the containment air temperature will be maintained within limits during normal operation, and (2) adequate heat removal capacity is available when operated in conjunction with the Containment Spray Systems during post-LOCA conditions.

3/4.6.3 CONTAINMENT ISOLATION VALVES

The OPERABILITY of the containment isolation valves ensures that the containment atmosphere will be isolated from the outside environment in the event of a release of radioactive material to the containment atmosphere or pressurization of the containment and is consistent with the requirements of General Design Criteria 54 through 57 of Appendix A to 10 CFR Part 50. Containment isolation within the time limits specified for those isolation valves designed to close automatically ensures that the release of radioactive material to the environment will be consistent with the assumptions used in the analyses for a LOCA. The containment isolation valves associated with the containment hydrogen monitors may be opened on an intermittent basis under administrative control. Since the controls for these valves are located in the main control room, which is continuously manned, an operator will be available to ensure rapid isolation if necessary. A list of containment isolation valves is provided in Table 16.3-4 of the VEGP FSAR.

3/4.6.4 COMBUSTIBLE GAS CONTROL

The OPERABILITY of the equipment and systems required for the ~~detection~~ control of hydrogen gas ensures that this equipment will be available to maintain the hydrogen concentration within containment below its flammable limit during post-LOCA conditions. Either recombiner unit is capable of controlling the expected hydrogen generation associated with: (1) zirconium-water reactions, (2) radiolytic decomposition of water, and (3) corrosion of metals within containment. These Hydrogen Control Systems are consistent with the recommendations of Regulatory Guide 1.7, "Control of Combustible Gas Concentrations in Containment Following a LOCA," Revision 2, November 1978.

The Hydrogen Mixing Systems are provided to ensure adequate mixing of the containment atmosphere following a LOCA. This mixing action will prevent localized accumulations of hydrogen from exceeding the flammable limit.