

CONTAINMENT SYSTEMSCONTAINMENT PURGE SYSTEMLIMITING CONDITION FOR OPERATION

3.6.1.9 The containment purge system supply and exhaust isolation valves shall be OPERABLE and either the 20 inch or the 6 inch purge system may be in operation; however, the 20 inch purge system shall not be in operation nor shall the 20 inch valves be open ~~for more than 1000 hours per 365 days.~~

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2 and 3.

INSERT
A

ACTION:

except for the
condition covered
in Action C

- a. With a containment purge system supply and/or exhaust isolation valve(s) inoperable, close the inoperable valve(s) or otherwise isolate the penetration(s) within 4 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
- b. ~~With the 20 inch containment purge system in operation and/or with the 20 inch supply and/or exhaust isolation valve(s) open for more than 1000 hours per 365 days, discontinue 20 inch purge system operation and close the open 20 inch valve(s) or otherwise isolate the penetration(s) within four hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.~~
- c. With a containment purge supply and/or exhaust isolation valve with resilient material seals having a measured leakage rate exceeding the limit of Surveillance Requirement 4.6.1.9.2, ~~restore the inoperable valve(s) to OPERABLE status~~ ^(S) within 24 hours or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.

INSERT
B

INSERT
C

SURVEILLANCE REQUIREMENTS

4.6.1.9.1 ~~The cumulative time that the 20 inch containment purge system has been in operation and the cumulative time that the 20 inch supply and/or exhaust isolation valves have been open during the past 365 days shall be determined at least once per 7 days.~~

4.6.1.9.2 At least once per 92 days each containment purge supply and exhaust isolation valve with resilient material seals shall be demonstrated OPERABLE by verifying that the measured leakage rate is less than or equal to $0.01 L_a$ when pressurized to P_a .

INSERT
D

INSERT
E

GRAND GULF-UNIT 1

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Amendment No. _____

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Insert A:

except for containment pressure control, for ALARA and air quality considerations for personnel entry, or for surveillance or special testing on the purge system that requires the isolation valve(s) to be open.

Insert B:

With the 20 inch supply and/or exhaust isolation valve(s) open except as allowed by Specification 3.6.1.9,

Insert C:

or otherwise isolate the penetration(s) so that the measured leakage rate does not exceed the limit of Specification 4.6.1.9.2

Insert D:

At least once per 31 days each 20 inch containment purge system supply and exhaust isolation valve shall be verified closed*.

Insert E:

*However, the valves need not be closed and may be open as allowed by Specification 3.6.1.9.

CONTAINMENT SYSTEMSBASES3/4.6.1.5 FEEDWATER LEAKAGE CONTROL SYSTEM

The feedwater leakage control system consists of two independent subsystems designed to eliminate through-line leakage in the feedwater piping by pressurizing the feedwater lines to a higher pressure than the containment and drywell pressure. This ensures that no release of radioactivity through the feedwater line isolation valves will occur following a loss of all offsite power coincident with the postulated design basis loss-of-coolant accident.

3/4.6.1.6 CONTAINMENT STRUCTURAL INTEGRITY

This limitation ensures that the structural integrity of the containment will be maintained comparable to the original design standards for the life of the unit. Structural integrity is required to ensure that the containment will withstand the maximum pressure of 11.5 psig in the event of a LOCA. A visual inspection in conjunction with Type A leakage tests is sufficient to demonstrate this capability.

3/4.6.1.7 CONTAINMENT INTERNAL PRESSURE

The limitations on containment-to-Auxiliary Building and Enclosure Building differential pressure ensure that the containment peak pressure of 11.5 psig does not exceed the design pressure of 15.0 psig during LOCA conditions or that the external pressure differential does not exceed the design maximum external pressure differential of 3.0 psid. The limit of -0.1 to 1.0 psid for initial containment-to-Auxiliary Building and Enclosure Building differential pressure will limit the containment pressure to 11.5 psid which is less than the design pressure and is consistent with the safety analysis.

3/4.6.1.8 CONTAINMENT AVERAGE AIR TEMPERATURE

The limitation on containment average air temperature ensures that the containment peak air temperature does not exceed the design temperature of 185°F during LOCA conditions and is consistent with the safety analysis.

3/4.6.1.9 CONTAINMENT PURGE SYSTEM

The continuous use of the containment purge lines during all operational conditions is restricted to the 6-inch purge supply and exhaust isolation valves; whereas, continuous containment purge using the 20-inch purge system is limited to only OPERATIONAL CONDITIONS 4 and 5. Intermittent use of the 20-inch purge system during OPERATIONAL CONDITIONS 1, 2 and 3 is allowed only to reduce airborne activity levels and shall not exceed 1000 hours of use per 365 days.

INSERT

The design of the 6-inch purge supply and exhaust isolation valves meets the requirements of Branch Technical Position CSB 6-4, "Containment Purging During Normal Plant Operations."

Insert to Page B 3/4 6-2

restricted to the following:

- a. Containment pressure control,
- b. ALARA and air quality considerations for personnel entry due to:
high explosive gas concentration, low oxygen concentration, high
airborne particulate activity, high gaseous radioactivity, smoke
or fumes, or
- c. Surveillance or special testing on the purge system that
requires the isolation valve(s) to be open.

CERTIFICATION DOR FOR GNRO-91/00064

<u>GNRO Section</u>	<u>Responsible Organization</u>
Cover Letter	NL
Attachment 2	
A	NL
B.1, 3 through 11	NL
B.2	PLS - P&SE
C.1, 3, 11	NL
C.2, 4, 5, 6, 7, 9, 10	PLS - OPS
C.8	PLS - P&SE
D	NL
Insert to Page 3/4 6-12	PLS - OPS
Insert to Page B 3/4 6-2	PLS - OPS