

56-272/311

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A001

SALEM GENERATING STATION
EVENT CLASSIFICATION GUIDE TECHNICAL BASIS
July 24, 2000

CHANGE PAGES FOR
Corrected Pages

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1. Check that your revision packet is complete.
2. Add the revised documents.
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ADD			REMOVE		
<u>Pages</u>	<u>Description</u>	<u>Rev.</u>	<u>Pages</u>	<u>Description</u>	<u>Rev.</u>
All	Section 3.3 2.b	3	All	Section 3.3.2.b	2
All	Section 3.3 2.c	3	All	Section 3.3.2.c	2
All	Section 3.3 3.b	3	All	Section 3.3.3.b	2

Summary of significant changes:

No changes were made, incorrect revision numbers were identified for the following sections:

3.3.2.b
3.3.2.c
3.3.3.b

All sections should have been revision 3, not revision 2.

3.0 Fission Product Barriers

3.3 Containment Barrier

3.3.2 CONTAINMENT PRESSURE

3.3.2.b

IC Potential Loss of Containment Barrier = 1 POINT

EAL

CNTMT Press. > 15 psig with EITHER one of the following:

- No CNTMT Spray AND < 5 CFCUs Running in "Low Speed"
- One CNTMT Spray Train I/S AND < 3 CFCUs Running in "Low Speed"

MODE - 1, 2, 3, 4

BASIS

Containment (CNTMT) pressure increase to > 15 psig (the CNTMT Spray initiation setpoint) indicates a major release of energy to the Containment. Failure of ALL Containment Spray with <5 Containment Fan Coil Units (CFCUs) running in "low speed", or only one train of Containment Spray in service with <3 CFCUs running in "low speed", indicates a condition where systems designed for containment heat removal and depressurization do not have the capacity to maintain Containment pressure below the structural design limit. The threshold value for available Containment Depressurization and Cooling Systems is based upon system design basis for maintaining Containment integrity.

Barrier Analysis

Containment Barrier has been potentially lost.

ESCALATION CRITERIA

This event will be classified and/or escalated based on the potential loss or loss of additional barriers per EAL Section 3.0.

EAL - 3.3.2.b
Rev. 03

DISCUSSION

The CFCUs and the Containment Spray system are redundant to each other in providing post accident cooling of the Containment atmosphere. With less than the minimum combination of sub-systems stated in the EAL threshold value, the ability to remove energy from the Containment atmosphere is severely impaired. Containment pressure > 15 psig with a loss of Containment Cooling and Depressurization systems represents a potential loss of the Containment barrier.

DEVIATION

None

REFERENCES

NUMARC, NESP-007, PC2
EOP-TRIP-1
EOP-FRCE-1
EOP-Setpoint Doc (T.02)
Technical Specification Section 3.6.2

3.0 Fission Product Barriers

3.3 Containment Barrier

3.3.2 CONTAINMENT PRESSURE

3.3.2.c

IC Loss of Containment Barrier = 2 POINTS

EAL

A Rapid Unexplained Containment Pressure Drop following an initial Rise to > 4 psig

MODE - 1, 2, 3, 4

BASIS

Containment pressure increase to > 4 psig (the containment pressure Safety Injection initiation setpoint) indicates a major release of energy to the Containment. These releases can only be provided by a large release of either primary or secondary coolant into the Containment. For the cases that primary coolant provides the source of energy, a loss of the RCS barrier has also occurred. A rapid unexplained loss of Containment pressure following an initial pressure rise indicates a loss of Containment integrity.

Unexplained means that the pressure drop is not as a result of operator actions taken to reduce Containment pressure. The term **rapid** was added as an attempt to quantify the size of the Containment breach.

Emergency Coordinator judgment should be used to determine if this EAL applies for rapid, unexplained Containment pressure drops following initial rises to less than the 4 psig threshold.

Barrier Analysis

Containment Barrier has been lost.

ESCALATION CRITERIA

This event will be classified and/or escalated based on the potential loss or loss of additional barriers per EAL Section 3.0.

EAL - 3.3.2.c
Rev. 03

DISCUSSION

The threshold value of 4 psig was selected to be consistent with the Safety Injection and Adverse Containment criteria. For those cases where secondary coolant provides the source of energy, a faulted Steam Generator is possible. This requires actions in EOP-LOSC-1 to isolate the Main Steam lines to maintain intact Steam Generators for an RCS Heat Sink, minimize Containment Pressure, and to minimize RCS cooldown.

DEVIATION

None

REFERENCES

NUMARC NESP-007, PC2
EOP-TRIP-1
EOP-LOSC-1
Technical Specification Table 3.3-4

3.0 Fission Product Barriers

3.3 Containment Barrier

3.3.3 CONTAINMENT ISOLATION

3.3.3.b

IC Loss of Containment Barrier = 2 POINTS

EAL

Valid CNTMT ϕ A, ϕ B or CNTMT Vent Isol Signal

AND

Flow path from CNTMT to the environment

MODE - 1, 2, 3, 4

BASIS

A **valid** Containment (CNTMT) Isolation Signal represents a situation that requires closure of selected Containment Isolation valves to maintain containment integrity under abnormal conditions. The lines required to be isolated under these conditions connect potentially contaminated systems or Containment volume with systems outside the Containment.

Classification under this EAL is not required if manual closure attempts from Control Room are successful in the event that the automatic isolation signal fails. The term "**valid**" is defined as an actual condition which requires a CNTMT isolation due to instrumentation setpoints being exceeded.

The term "**to the environment**" is intended to include ANY flow path to the environment either directly or via systems which exhaust to the Plant Vent (e.g.; leakage to the Auxiliary Building ventilation system).

Barrier Analysis

Containment Barrier has been lost.

EAL - 3.3.3.b
Rev. 03

ESCALATION CRITERIA

This event will be classified and/or escalated based on the potential loss or loss of additional barriers per EAL Section 3.0.

DISCUSSION

Technical Specification 3.6.3 "Containment Isolation Valves" was used to determine the signals required for Containment isolation. Any reference to Main Steam Isolation or Steam Generator Blowdown Isolation is covered under the Containment Bypass "potential loss" EAL.

DEVIATION

None

REFERENCES

NUMARC NESP-007, PC3
EOP-TRIP-1
OP-AR.ZZ-0003(Q)
SGS Technical Specifications