

Industry/TSTF Standard Technical Specification Change Traveler

Modify LCO 3.3.6 and LCO 3.3.7 Applicability

Priority/Classification 2) Consistency/Standardization

NUREGs Affected: 1430 1431 1432 1433 1434

Description:

The Applicability of LCO 3.3.6 and LCO 3.3.7 is modified to only include the portions of MODE 3 in which the associated ESFAS equipment is required to be OPERABLE.

Justification:

This change was made to reflect the fact that some ESFAS actuated equipment is not required in either MODE 3 or MODE 4. This change was made to provide Applicabilities for the ESFAS requirements which are consistent with the Applicabilities of the actuated equipment.

Revision History

OG Revision 0

Revision Status: Active

Next Action: NRC

Revision Proposed by: Oconee

Revision Description:
Original Issue

Owners Group Review Information

Date Originated by OG: 06-Nov-97

Owners Group Comments
ONS-011

Owners Group Resolution: Approved Date: 06-Nov-97

TSTF Review Information

TSTF Received Date: 06-Nov-97 Date Distributed for Review 15-Dec-97

OG Review Completed: BWOG WOG CEOG BWROG

TSTF Comments:
BWOG only.

TSTF Resolution: Approved Date: 05-Feb-98

Incorporation Into the NUREGs

File to BBS/LAN Date:

TSTF Informed Date:

TSTF Approved Date:

NUREG Rev Incorporated:

Affected Technical Specifications

Appl. 3.3.6 ESFAS Manual Initiation

Appl. 3.3.6 Bases ESFAS Manual Initiation

2/19/98

Appl. 3.3.7 ESFAS Automatic Actuation Logic

Appl. 3.3.7 Bases ESFAS Automatic Actuation Logic

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3.3 INSTRUMENTATION

3.3.6 Engineered Safety Feature Actuation System (ESFAS) Manual Initiation

LCO 3.3.6 Two manual initiation channels of each one of the ESFAS Functions below shall be OPERABLE:

- a. High Pressure Injection;
- b. Low Pressure Injection;
- [c. Reactor Building (RB) Cooling;]
- [d. RB Spray;]
- e. RB Isolation; and
- [f. Control Room Isolation.]

APPLICABILITY: MODES 1, 2, and 3, MODE 4 when associated engineered safeguard equipment is required to be OPERABLE.

3 and

ACTIONS

-----NOTE-----
Separate Condition entry is allowed for each Function.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more ESFAS Functions with one channel inoperable.	A.1 Restore channel to OPERABLE status.	72 hours
B. Required Action and associated Completion Time not met.	B.1 Be in MODE 3. <u>AND</u>	6 hours (continued)

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3.3 INSTRUMENTATION

3.3.7 Engineered Safety Feature Actuation System (ESFAS) Automatic Actuation Logic

LC0 3.3.7 All the ESFAS automatic actuation logic matrices shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3, MODE 4 when associated engineered safeguard equipment is required to be OPERABLE.

ACTIONS

3 and

-----NOTE-----
Separate Condition entry is allowed for each automatic actuation logic matrix.

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One or more automatic actuation logic matrices inoperable.	A.1 Place associated component(s) in engineered safeguard configuration.	1 hour
	<u>OR</u> A.2 Declare the associated component(s) inoperable.	1 hour

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BASES

BACKGROUND
(continued)

unit locations. These alternative means are not required by this LCO, nor may they be credited to fulfill the requirements of this LCO.

APPLICABLE
SAFETY ANALYSES

The ESFAS, in conjunction with the actuated equipment, provides protective functions necessary to mitigate Design Basis Accidents, specifically, the loss of coolant accident and steam line break events.

The ESFAS manual initiation ensures that the control room operator can rapidly initiate ESF Functions at any time. The manual initiation trip Function is required as a backup to automatic trip functions and allows operators to initiate ESFAS whenever any parameter is rapidly trending toward its trip setpoint. Furthermore, the ESFAS manual initiation may be specified in operating procedures for verification that ESF systems are running.

The ESFAS manual initiation functions satisfy Criterion 3 of the NRC Policy Statement.

LCO

Two ESFAS manual initiation channels of each ESFAS Function shall be OPERABLE whenever conditions exist that could require ESF protection of the reactor or RB. Two OPERABLE channels ensure that no single random failure will prevent system level manual initiation of any ESFAS Function. The ESFAS manual initiation Function allows the operator to initiate protective action prior to automatic initiation or in the event the automatic initiation does not occur.

APPLICABILITY

The ESFAS manual initiation Functions shall be OPERABLE in MODES 1, 2, and 3 and in MODE 4 when the associated engineered safeguard equipment is required to be OPERABLE. The manual initiation channels are required because ESF Functions are designed to provide protection in these MODES. In MODES 5 and 6, ESFAS initiates systems that are either reconfigured or disabled for shutdown cooling operation. Accidents in these MODES are slow to develop and would be mitigated by manual operation of individual components. Adequate time is available to evaluate unit conditions and

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BASES (continued)

APPLICABLE
SAFETY ANALYSES

Accident analyses rely on automatic ESFAS actuation for protection of the core and RB and for limiting off site dose levels following an accident. These include LOCA, SLB, and feedwater line break events that result in Reactor Coolant System (RCS) inventory reduction or severe loss of RCS cooling. The automatic actuation logic is an integral part of the ESFAS.

The ESFAS automatic actuation logics satisfy Criterion 3 of the NRC Policy Statement.

LCO

The automatic actuation logic matrix for each component actuated by the ESFAS is required to be OPERABLE whenever conditions exist that could require ESF protection of the reactor or the RB. This ensures automatic initiation of the ESF required to mitigate the consequences of accidents.

APPLICABILITY

The automatic actuation logic Function shall be OPERABLE in MODES 1, 2, and 3 and in MODE 4 when the associated engineered safeguard equipment is required to be OPERABLE, because ESF Functions are designed to provide protection in these MODES. Automatic actuation in MODE 5 or 6 is not required because the systems initiated by the ESFAS are either reconfigured or disabled for shutdown cooling operation. Accidents in these MODES are slow to develop and would be mitigated by manual operation of individual components. Adequate time is available to evaluate unit conditions and respond by manually operating the ESF components, if required.

ACTIONS

A Note has been added to the ACTIONS indicating separate Condition entry is allowed for each ESFAS automatic actuation logic matrix.

A.1 and A.2

When one or more automatic actuation logic matrices are inoperable, the associated component(s) can be placed in its engineered safeguard configuration. Required Action A.1 is

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