

Attachment II

Marked Up Copy of R.E. Ginna Nuclear Power Plant
Technical Specifications

Included Pages:

3.3-26
B 3.3-82*
B 3.3-84*

- * These bases pages are being provided for information only to show the changes RG&E intends to make following NRC approval of the LAR. The bases are under RG&E control for all changes in accordance with Specification 5.5.13.

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Table 3.3.2-1 (page 2 of 3)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	TRIP SETPOINT
4. Steam Line Isolation						
a. Manual Initiation	1,2(b),3(b)	1 per loop	D,G	SR 3.3.2.4	NA	NA
b. Automatic Actuation Logic and Actuation Relays	1,2(b),3(b)	2 trains	E,G	SR 3.3.2.7	NA	NA
c. Containment Pressure -High High	1,2(b),3(b)	3	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≤ 20 psig C.1.1	≤ 18 psig C.1.2
d. High Steam Flow	1,2(b),3(b)	2 per steam line	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	0.46E6 ≤ 0.55E6 lbm/hr @ 755-psig 100S psig	≤ 0.4E6 lbm/hr @ 755-psig 100S
Coincident with Safety Injection and	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					
Coincident with T _{avg} -Low	1,2(b),3(b)	2 per loop	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≥ 543°F	≥ 545°F
e. High -High Steam Flow	1,2(b),3(b)	2 per steam line	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≤ 3.7E6 lbm/hr @ 755 psig	≤ 3.6E6 lbm/hr @ 755 psig
Coincident with Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					

(continued)

(b) Except when both MSIVs are closed and de-activated.

BASES

APPLICABLE
SAFETY ANALYSES,
LCO, and
APPLICABILITY

c. Steam Line Isolation - Containment
Pressure - High High (continued)

Containment Pressure - High High must be OPERABLE in MODES 1, 2, and 3, because there is sufficient energy in the primary and secondary side to pressurize the containment following a pipe break. This would cause a significant increase in the containment pressure, thus allowing detection and closure of the MSIVs. The steam line isolation Function must be OPERABLE in MODES 2 and 3 unless both MSIVs are closed and de-activated. In MODES 4, 5, and 6 the steam line isolation Function is not required to be OPERABLE because there is not enough energy in the primary and secondary sides to pressurize the containment to the Containment Pressure - High High setpoint.

d. Steam Line Isolation - High Steam Flow Coincident
With Safety Injection and Coincident With
T_{avg} - Low

This Function provides closure of the MSIVs during an SLB or inadvertent opening of ^{multiple} SG atmospheric relief or safety valves to maintain at least one unfaulted SG as a heat sink for the reactor, and to limit the mass and energy release to containment.

Allowable Value
The setpoint is based on steam line breaks which result in > 10% RTP from initial no load conditions. The steam line pressure input into this function only affects main control board indication and not the activation logic (i.e., the steam flow signal is not pressure compensated)

(continued)

BASES

APPLICABLE
SAFETY ANALYSES,
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- d. Steam Line Isolation - High Steam Flow Coincident With Safety Injection and Coincident With I_{avg} - Low (continued)

This Function must be OPERABLE in MODES 1, 2, and 3 when a secondary side break or stuck open valve could result in rapid depressurization of the steam lines. The Steam Line Isolation Function is required to be OPERABLE in MODES 2 and 3 unless both MSIVs are closed and de-activated. This Function is not required to be OPERABLE in MODES 4, 5, and 6 because there is insufficient energy in the secondary side of the plant to have an accident.

- e. Steam Line Isolation - High High Steam Flow Coincident With Safety Injection

large

This Function provides closure of the MSIVs during a steam line break (or inadvertent opening of an SG atmospheric relief or safety valve) to maintain at least one unfaulted SG as a heat sink for the reactor, and to limit the mass and energy release to containment.

Allowable Valve Trip Setpoint is based on full power steam conditions and 109% steam generator flow.

Two steam line flow channels per steam line are required to be OPERABLE for this Function. These are combined in a one-out-of-two logic to indicate high-high steam flow in one steam line. FT-464 and FT-465 are the two channels required for steam line A. FT-474 and FT-475 are the two channels required for steam line B. Each steam line is considered a separate function for the purpose of this LCO. The steam flow transmitters provide control inputs, but the control function cannot initiate events that the Function acts to mitigate. Therefore, additional channels are not required to address control protection interaction issues.

The steam line pressure input into this function only affects main control board indication and not the actuation logic (i.e., the steam flow signal is not pressure compensated).

(continued)

Attachment III

Proposed Technical Specifications

Included Pages:

3.3-26

Table 3.3.2-1 (page 2 of 3)
Engineered Safety Feature Actuation System Instrumentation

FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	TRIP SETPOINT
4. Steam Line Isolation						
a. Manual Initiation	1,2(b),3(b)	1 per loop	D,G	SR 3.3.2.4	NA	NA
b. Automatic Actuation Logic and Actuation Relays	1,2(b),3(b)	2 trains	E,G	SR 3.3.2.7	NA	NA
c. Containment Pressure -High High	1,2(b),3(b)	3	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≤ 20 psig	≤ 18 psig
d. High Steam Flow	1,2(b),3(b)	2 per steam line	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≤ 0.66E6 lbm/hr @ 1005 psi	≤ 0.4E6 lbm/hr @ 1005 psig
Coincident with Safety Injection and	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					
Coincident with T _{avg} -Low	1,2(b),3(b)	2 per loop	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≥ 543°F	≥ 545°F
e. High -High Steam Flow	1,2(b),3(b)	2 per steam line	F,G	SR 3.3.2.1 SR 3.3.2.2 SR 3.3.2.5	≤ 3.7E6 lbm/hr @ 755 psig	≤ 3.6E6 lbm/hr @ 755 psig
Coincident with Safety Injection	Refer to Function 1 (Safety Injection) for all initiation functions and requirements.					

(continued)

(b) Except when both MSIVs are closed and de-activated.

