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TRM2 - TECHNICAL REQUIREMENTS MANUAL UNIT 2

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*ADD
NRR*

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REMOVE: REV:1

ADD: REV: 2

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Manual Title: TECHNICAL REQUIREMENTS MANUAL UNIT 2

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Rev. 2

B 3.5 Emergency Core Cooling Systems (ECCS), Reactor Pressure Vessel (RPV)
Water Inventory Control, and Reactor Core Isolation Cooling (RCIC) System

B 3.5.1 Automatic Depressurization System (ADS) Manual Inhibit

BASES

TRO The ADS Manual Inhibit function is provided to permit overriding ADS actuation in the event that the actuation signals are due to an Anticipated Transient Without a Scram (ATWS). The function supports operation of the SLCS Function (LCO 3.1.7) (ADS Inhibit) and ADS Function (LCO 3.5.1) (ADS Permissive), and is required to be OPERABLE when those functions are required.

The purpose of the ADS Manual Inhibit Function is to disable the ADS system to prevent a blowdown in the event of an Anticipated Transient Without a Reactor Scram (ATWS), when boron injection is required. ADS Manual Inhibit is required by procedure any time SLCS injection is initiated for reactivity control.

The ADS Manual Inhibit function supports SLCS operation for mitigation of an ATWS event, which ties its Operability requirement to that of SLCS. If the ATWS transient results in a sustained reactor water level below the Level 1 ADS initiation setpoint (-129"), the SLCS Function can be defeated by failure of one ADS Manual Inhibit channel in either the ADS A or B logic control systems. Because its actuation could result in the injection of a large amount of unborated water into the core under ATWS conditions, preventing ADS is appropriate whenever boron injection is required.

The ADS Manual Inhibit "passive" function must be Operable to support actuation of the ADS initiation function, which ties its Operability requirement to that of ADS.

One ADS Manual Inhibit Switch is provided for each Division.(Reference 1)

Rev. 2

BASES

ACTIONS

The Actions are defined to ensure proper corrective measures are taken in response to the inoperable components.

The REQUIRED ACTIONS are based on the ATWS mitigation Function and on the need to preserve the ADS ECCS function. The allowed out of service time for the Inhibit function is commensurate with the Function's importance to safety, relative to ATWS functional requirements.

While the ADS Manual Inhibit is a desirable function for the ATWS mitigation scenarios, it is not a necessary function for plant shutdown with Standby Liquid Control injection under the ATWS emergency operating procedures when high pressure injection systems are available. High pressure injection systems are used to control RPV water level above -129" in an ATWS. SSES plant specific analyses do not show RPV level falling below -129" in an MSIV closure ATWS (the limiting water level event) if HPCI and RCIC are available.

Failure of the ADS Manual Inhibit Function to reset to the "permissive" mode when returned to "normal" can affect the ADS system's ability to perform its ECCS safety function. The ADS Manual Inhibit "permissive" function assures there is appropriate switch contact continuity such that the automatic and manual ADS initiation trip channels can function in accordance with the ECCS design basis. Failure of the switch to support the ADS ECCS Function causes the ADS trip channel to become inoperable.

TRS

The TRSs are defined to be performed at the specified Frequency to ensure that the ADS Manual Inhibit Switch is maintained OPERABLE.

REFERENCES 1. FSAR Section 7.3.1.1a
