



Callaway Plant

July 26, 1989

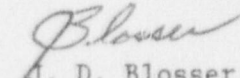
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CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 89-06
EMERGENCY CORE COOLING SYSTEM ACTUATION

This Special Report is being submitted pursuant to Technical Specification 3.5.2 and 6.9.2 concerning an inadvertent Emergency Core Cooling System actuation and subsequent Safety Injection signal during restoration.


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SPECIAL REPORT 89-06
EMERGENCY CORE COOLING SYSTEM ACTUATION

On 5/18/89 at 0300 CDT, an Engineered Safety Feature (ESF) Safety Injection (SI) actuation on Train A was received due to a low steamline pressure signal during a reactor trip breaker Trip Actuating Device Operational Test. During restoration, a second SI signal was received at 0305. A Reactor Protection System (RPS) actuation, Containment Isolation, Control Room Ventilation Isolation, Main Steamline Isolation, and Motor Driven Auxiliary Feedwater Actuation followed the initial SI. Identical ESF actuation signals were generated from the second SI signal. The plant was in Mode 4, Hot Shutdown. This report is submitted pursuant to Technical Specifications 3.5.2 and 6.9.2.

During performance of the surveillance test, a licensed operator turned a logic switch the wrong direction. This defeated the low steamline pressure SI block, causing the RPS actuation since steamline pressure is low in Mode 4. When the mode switch was turned from TEST to OPERATE, the established SI signal caused the Train A SI plant equipment to actuate. During restoration, a licensed operator hit the Pressurizer Pressure SI RESET button, instead of the Manual SI RESET button, thus allowing a second SI signal to be processed at 0305. The SI was properly reset at 0313.

An Unusual Event was declared at 0320 as required by the emergency plan. The plant was restored to a normal condition and the Unusual Event was terminated at 0335. This event was also reported in Licensee Event Report 89-005-00 transmitted via ULNRC-2021, dated 6/19/89.

The total accumulated actuation cycles at operating temperature for the Callaway Plant Emergency Core Cooling System is four. The previous actuations were reported by Special Report 84-03, via ULNRC-970, dated 11/8/84, Special Report 85-03, via ULNRC-1105, dated 5/31/85 and Special Report 88-01, via ULNRC-1770, dated 5/9/88. In all four cases, the usage factor for each Safety Injection nozzle was below the 0.70 limit specified in Technical Specification 3.5.2 Action (b).