



Commonwealth Edison
Byron Nuclear Station
4450 North German Church Road
Byron, Illinois 61010

March 15, 1990

LTR: BYRON 90-0282
FILE: 2.7.400

Mr. A. Bert Davis
U. S. Nuclear Regulatory Commission
Regional Administrator
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

SUBJECT: Byron Unit 2, ECCS Actuation Report

Dear Mr. Davis:

This letter is submitted to document the circumstances of a recent Emergency Core Cooling System (ECCS) actuation at Byron Station Unit 2.

On January 18, 1990, Byron Unit 2 experienced an unanticipated ECCS actuation during testing activities. The actuation was initiated by a 2 of 3 channel coincidence of low steam line pressure due to one channel in test and a second channel spiking low. At no time did conditions in the plant exist which would require mitigation by the ECCS. At the time of the event, the unit was in Mode 1, Power Operation, at 99% reactor power. The attached report, LER 90-001, describes the circumstances of the ECCS actuation in detail.

To date, Byron Unit 2 has experienced four (4) unplanned injections by the ECCS. In this occurrence, it is estimated that 3150 gallons of borated water were injected into the Reactor Coolant System through the cold leg injection flowpath of the Charging/Safety Injection Pumps. Given a design parameter of 110 actuation cycles for life-of-plant, Byron Unit 2 is well below the reportable nozzle usage factor of 0.70.

This report is submitted in accordance with Technical Specifications 6.9.2 and 3.5.2.

R. Pieniewicz
Station Manager
Byron Nuclear Power Station

RP/SM/bf

cc: W. Kropp, NRC Senior Resident Inspector
INPO Record Center
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