

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

FACILITY NAME (1) BYRON, UNIT 1	DOCKET NUMBER (2) 0 5 0 0 0 4 5 4	LER NUMBER (6)			PAGE (3)		
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TEXT (If more space is required, use additional NRC Form 365A's) (17)

On March 1, 1985 at 21:36 during the first attempt to synchronize the main generator to the grid, a mechanical anti-motoring turbine trip resulted in a reactor trip. Prior to the Turbine Trip/Reactor trip, the reactor was at 13 percent power as indicated by differential temperature indication.

When the generator was synchronized with the grid, the Westinghouse Digital Electro Hydraulic (DEH) Controller, MOD 2, did not position the governor valves properly to pick-up generator load. As a result of the inadequate steam flow, the mechanical anti-motoring turbine trip, which senses the differential pressure across the high pressure turbine, was initiated. A one minute time delay is built into the anti-motoring trip. When the NSO closed the switchyard breaker, OCB 4-5, there was no indication on either the MW LED indication or the MW meter. The NSO attempted to pick-up load by placing the DEH controller in manual and raising the governor valves. However, adequate steam flow was not established prior to the time delay expiration. With reactor power at thirteen percent, the turbine trip initiated a reactor trip.

There was no danger imposed on the plant nor the public as a result of this event, as the expected conservative action (Turbine Trip/Reactor Trip) occurred.

As a result of this event, Westinghouse Start-up Engineers have revised the DEH Controller's governor valve position versus generator load curve. The generator has been successfully synchronized following the implementation of the revised valve position curve.

There have been no previous occurrences.



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

March 19, 1985

LTR: BYRON 85-0418

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D. C. 20555

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10CFR 50.73(a)(2)(iv) which requires a 30 day written report.

This report is number 85-024-00, Docket No. 5-0454.

Very truly yours,

R. E. Querio
Station Superintendent
Byron Nuclear Power Station

REQ/vda

Enclosure: Licensee Event Report No. 85-024-00

Attachment

cc: J. G. Keppler, NRC Region III Administrator
J. Hinds, NRC Resident Inspector
INPO Record Center
CECO Distribution List

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