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Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794

August 3, 2010

LTR: BYRON 2010-0090 File: 1.10.0101 10 CFR 50.73

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

> Byron Station, Unit 2 Facility Operating License No. NPF-66 NRC Docket No. STN 50-455

Subject: Licensee Event Report 2010-002-00, "Essential Service Water System Inoperable Due to Inadequate Seismic Restraint from Original Construction Error"

The enclosed Licensee Event Report (LER) is being submitted in accordance with 10 CFR 50.73, "Licensee event report system." The LER involves the discovery of inadequate seismic restraint of the safety related Essential Service Water Lines attached to a non-safety related Containment Ventilation Chiller.

There are no regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Mr. David Gudger, Regulatory Assurance Manager, at (815) 406-2800.

Respectfully,

Bully & Adams for

Daniel J. Enright Site Vice President Byron Station

Enclosure: LER Number 2010-002-00



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1. FACILITY NAME	2. DOCKET		3. PAGE							
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NARRATIVE

A. <u>Description of Event</u>

On February 3, 2010, Engineering identified that the support rails for Unit 2 A and B Containment Ventilation (VP) [BK] Chillers were not welded to their base plates in accordance with design requirements. Although the VP Chillers are non-safety related and isolated from Essential Service Water (SX) [BI] piping during the design basis accident, they are considered anchor points for the attached safety related SX system piping. During a postulated Safe Shutdown Earthquake (SSE) event, this installation discrepancy impacts the loading on the attached SX lines. Since SX supplies the Ultimate Heat Sink (UHS) [BS], which is a shared system between Unit 1 and Unit 2, the safety function of both trains of SX and the UHS on each Unit could be impacted during a postulated SSE.

Shift Management was immediately notified and the issue was entered into the Corrective Action Program. The initial operability assessment concluded, based on engineering judgment, that installed supports and bolting were adequate to restrain the VP Chillers sufficiently to consider the attached SX piping operable. A detailed engineering assessment of this condition continued while welding the VP Chillers' support rails to their base plates. Sufficient welding of the support rails to the base plates was completed at approximately 2100 hours on February 3, 2010. The detailed engineering assessment continued in order to determine the historical operability status of the SX system.

On June 4, 2010, an engineering assessment, using simplified methodologies, was completed and concluded the SX lines attached to the VP Chillers would not have satisfied permanent design or interim operability requirements. Further analysis, using more sophisticated techniques, will be pursued to continue to assess the operability of the SX system and the potential safety significance.

At this time, this condition is being conservatively reported in accordance with 10 CFR 50.73 (a)(2)(ii)(B), for being in an unanalyzed condition that significantly degraded plant safety. Other reporting requirements may apply after the completion of the engineering assessment and will be addressed in a supplement to this report.

B. Causes of the Event

The cause was determined to be an installation oversight during initial construction in the early 1980's timeframe and not detecting the defect since installation. The cause of this oversight is indeterminate.

C. Safety Significance

There were no actual safety consequences from this condition. Byron Station has not experienced any significant seismic activity to challenge the SX piping attached to the VP chillers since initial startup. The potential safety significance of the condition is still being evaluated and the results will be reported in a supplement to this report.

D. <u>Corrective Actions</u>

The support rails of the Unit 2 A and B VP Chiller were welded to their base plates in accordance with appropriate design requirements.

An extent of condition review of other Chillers was conducted and all were found to have their required welds in place.

In addition, a review of non-safety related components that may provide physical support to safety related components was completed. No additional concerns were identified.

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NARRATIVE

7.

E. <u>Previous Occurrences</u>

LER 454 2008-001-00, "Technical Specification Non-Compliance of Containment Sump Monitor Due to Improper Installation During Original Construction." Corrective actions for this event would not have reasonably led to the discovery of this condition.