



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

April 9, 1997

LICENSEE: Illinois Power Company (IP)
FACILITY: Clinton Power Station
SUBJECT: SUMMARY OF APRIL 3, 1997, MEETING TO DISCUSS LICENSE AMENDMENT
APPLICATION ON DEGRADED VOLTAGE INSTRUMENTATION - CLINTON POWER
STATION (TAC NO. M98039)

On April 3, 1997, NRC staff members met in Rockville, Maryland, with representatives of IP. The purpose of the meeting was to discuss the licensee's letter of April 1, 1997, describing proposed changes to the technical specifications. A list of meeting participants is included as Enclosure 1, and a copy of the meeting handouts is provided as Enclosure 2.

The licensee opened the meeting by making a brief presentation of the chronology of events. In the 1992 time frame, inspection findings were made that questioned the adequacy of the technical specification loss of instrumentation voltage setpoints during degraded grid conditions. With the exception of the RHR pumps, the Clinton LOCA mitigating systems receive a block start initiating signal that may result in a drop of grid voltage such that inadequate voltage may be available. In response to these concerns, the licensee installed control room annunciators and implemented administrative controls. Thus, operator actions were relied upon to ensure adequate voltage would be available for the LOCA mitigating systems. The licensee's LER 94-005 further describes these developments.

The licensee subsequently committed to long-term hardware modifications (i.e., install new relays and higher voltage setpoints) that would eventually terminate the need for the administrative controls. One safety-related division would be modified during each of RF6, RF7, and RF8. License Amendment No. 110, issued on December 4, 1996, approved the licensee's proposed changes.

During the current RF6 outage, the licensee installed the new instrumentation package for the Division 2 bus. However, operability problems were soon identified with regard to the newly installed regulating transformers. The licensee subsequently concluded that the original work package could not be performed during RF6 and an operability evaluation concluded that the degraded voltage instrumentation for all three safety-related divisions was inoperable. This determination, in turn, resulted in all three emergency diesel generators being declared inoperable.

By letter dated April 1, 1997, the licensee submitted a license amendment application proposing an interim solution. The interim solution, which is significantly different from that reviewed and approved by the staff, involves reinstating the administrative controls, leaving in newly installed relays,

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removing the regulating transformers, and relying on higher voltage setpoints in the technical specifications. The application also included an unreviewed safety question (USQ) in that reliance on the interim administrative controls can potentially result in a malfunction of equipment important to safety of a different type than previously considered in the USAR.

During the discussion of the amendment application, the licensee stated that they are currently performing calculations to reconfirm that the associated 3940-VAC and 3890-VAC alarms and operator action points, respectively, are still adequate. The licensee committed to submit the results of these calculations in approximately two weeks. The staff indicated that this information would be needed in order to complete its review.

The licensee stressed the importance of receiving a prompt staff review. Since all three diesel generators have been declared inoperable, the license cannot change operating modes until the amendment request has been approved. This could place the staff's review on the licensee's critical path for plant restart. In addition, the staff informed the licensee that they would not be permitted to restart the facility with an unresolved USQ.

Although the application had only been received the previous day, the staff did not identify any obvious shortcomings in the submittal. The staff understood the importance of this amendment application and indicated that they would work with the licensee in giving this application a high priority and performing a prompt review.

Original signed by:

Douglas V. Pickett, Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-461

Enclosures: As stated

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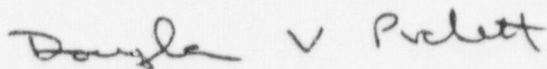
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MEETING ATTENDEES

APRIL 3, 1997

ILLINOIS POWER COMPANY

Paul Telthorst
Tom Elwood
Jerry Ray

NRC

Doug Pickett
Jim Lazevnick

Enclosure 1

Chronology of License Amendment Development, Operability Determination Program, and Safety Evaluation Issues

<i>Date</i>	<i>Event</i>
1992-1994	1992 Action and LER 94-005 Established operator action/alarm No safety or operability evaluation
1995-1996	Conceptual Design of Modifications AP027, AP028, and AP029
Fall 1996	Operability Determination Program Established (CPS Procedure 1014.06)
December 1996	License Amendment 110
January/February 1997	Regulating Transformer Problem/AP032
February/March 1997	Discussions with NRC
February-March 1997	Prepared 10CRF50.59 Safety Evaluation for crediting compensatory operator action
March 1997	Prepared Technical Specification Change Package LS- 97-001
March 1997	Unreviewed Safety Question (USQ) determination (factored into LS-97-001) for Modes 1, 2, and 3
March 26, 1997	Determination that degraded voltage relays are inoperable
April 1, 1997	Submittal of LS-97-001

Clinton Power Station
Degraded Voltage Protection

April 3, 1997

Introduction

Mr. Telthorst

Opening Remarks/Purpose

Mr. Telthorst

- Current Plant Status

Background

Mr. Telthorst

- History/Development of TS Change Package LS-97-001
- Chronology of Operability Determination Program and Safety Evaluation Issues (see attachment)

Related Hardware Issues

Mr. Ray

- RAT Tap Settings
- Division 1 and 3 Relay Changeouts

**Proposed TS Change Package
LS-97-001**

Mr. Elwood

Long-Term Actions

Mr. Ray