

March 24, 1998

LICENSEE: Illinois Power Company

FACILITY: Clinton Power Station

SUBJECT: SUMMARY OF MARCH 19, 1998, MEETING ON DEGRADED VOLTAGE

On March 19, 1998, NRC management and staff met in Rockville, Maryland, with representatives of Illinois Power Company. The purpose of the meeting was to discuss the potential fix for the issue of degraded voltage at the Clinton Power Station. A list of the meeting participants is included as Attachment 1, and a copy of the meeting handout is provided as Attachment 2.

The licensee stated that due to previously expressed NRC staff interest, they had reviewed the possible failure modes of the static var compensators (SVCs) and had identified a new failure mode. The licensee revised the SVC design to protect against the new failure mode. The licensee intends to submit a license amendment in April 1998 concerning the addition of the SVCs to the electrical system. The schedule is to have the modification in place prior to plant startup.

Original signed by:

Jon B. Hopkins, Senior Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket No. 50-461

Attachments: 1. List of Meeting Participants
2. Meeting Handout

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NAME	JHopkins	<i>[Signature]</i>	EBarnhill	<i>EB</i>
DATE	3/24/98	<i>[Signature]</i>	3/24/98	

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555-0001

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A handwritten signature in cursive script, reading "Jon B. Hopkins", is positioned above the typed name and title.

Jon B. Hopkins, Senior Project Manager
Project Directorate III-3
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

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COMPANY

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BBoger

EAdensam (EGA1)

RSavin

DRoss (SLM3)

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JLazevnick

JCalvo

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MEETING ATTENDEES
NRC AND ILLINOIS POWER COMPANY
DISCUSSION OF DEGRADED VOLTAGE
MARCH 19, 1998

NRC

J. Hopkins
J. Calvo
O. Chopra
J. Lazevnick
D. Thatcher

Illinois Power Company

J. Ray
R. Phares
J. Sipek
T. Elwood

Duke Engineering (consultant to Illinois Power Company)

R. Sharpe

**Degraded Voltage Project
at Clinton Power Station**

March 19, 1998

IP Representatives:

R. F. Phares	<i>Manager-Nuclear Safety and Performance Improvement</i>
J. V. Sipek	<i>Director-Licensing</i>
T. B. Elwood	<i>Supervisor-Licensing Operations</i>
J. L. Ray	<i>Project Engineer</i>
R. Sharpe	<i>Duke Engineering and Services</i>

Agenda

- Introduction *R. F. Phares*
- Project Update *J. L. Ray*
- Initial USQ Submittal *T. B. Elwood*
- Follow-up Submittals *T. B. Elwood*
- Project Schedule/Projected Completion Date *J. V. Sipek*
- Summer Situation *J. L. Ray*
- Summary *J. V. Sipek*

Project Update

- . Priority Project at CPS
 - Multiple Modification Packages: RAT Tap Setting, Regulating Transformers, RAT and ERAT SVCs, ERAT LTC
 - Construction Activities Begun
- SVC Design Changes (Relocated Breaker)
- Completion of SVC and Protection System Testing at ABB
- Ongoing Calculations

Initial USQ Submittal

- Initial submittal in April 1998.
- Will be submitted as a USQ with determination of No Significant Hazards Consideration.
- Will focus on SVC design and operation, associated protection system(s), and associated FMEA and PRA.
 - Will show that SVC failure probability coupled with failure of protection systems is acceptably small.
- Will include initial TS Bases and USAR changes.
- Will acknowledge required follow-up submittals.

Follow-up Submittal(s)

- Ongoing calculations take SVC operation into account and will allow for improved margins for required voltages for loads via changes to degraded voltage relay setpoints (Technical Specifications to be changed).
- Calculations use ETAP methodology (versus previously used ACELMS).
- Will need to address startup testing (tying SVCs to busses).

Project Schedule/ Projected Completion Date

- Initial submittal will refer to projected date of when startup testing will begin.
- Project estimated to be completed late summer/early fall.

Summer Situation

- Projected Offsite Circuit Voltages for RAT and ERAT.

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