

Communiavealth Edison Braidwood Nuclear Power Station Route #1, Box 84 Braceville, Illinois 60407 Telephone 815/45 8-2801

> April 30, 1992 BW/92-0218

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

Dear Sir:

The enclosed Licensee Event Report from Braidwood Generating Station is being transmitted to you in accordance with the requirement of 10CFR50.73(a)(2)(i)(B) which requires a 30-day written report.

This report is number 92-005-00, Docket No. 50-456.

Very truly yours,

K. L. Kotron Station Manager Braidwood Nuclear Station

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KLK/DN/dla 550/ZD85G

- Encl.: Licensee Event Report No. 92-005-00
- cc: NRC Resident Inspector NRL Resident Inspector INPO Record Center CECo Distribution List

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A. PLANT CONDITIONS PRIOR TO EVENT: Unit: Braidwood 1; Event Date: April 03, 1992; Event Time: 0930 Mode: 1 - Power Operation, Rx Power: 100%; RCS [AB] Temperature / Pressure: NOT/NOP;

#### B. DESCRIPTION OF EVENT:

There are 4 independent Pressurizer [AB] Pressure Channels, 1PI-455A, 1PI-456, 1PI-457, iPI-458 that are required to be checked at least once every 12 hours during Mode 1 to satisfy Technical Specification operability requirements. Administratively, these four pressure channels are choiced once every 8 hours during each shift. In the control room, the range of these channels is 1700-2500 psig. A channel check compares the output of each pressure channels and the values are recorded on operating surveillance 18w0S 0.1-1,2,3. The ollowable deviation between channels is limited to 3% of the indicated span (24 psig) before corrective action, i.e. maintenance, is considered. A rhannel deviation of greater than 3% shall be reviewed by a SRO to determine the acceptability of the channel check. The results of the evaluation shall be recorded on the applicable data sheet. At a deviation of 6% (48 prig), the failed channel is declared inoperable.

Un April 2, 1992 pressure channel 1P1-458 had been recalibrated and returned to service at 1850 within allowed tolerance levels.

On April 3, 1992, during planned maintenance for replacement of a degraded power supply, Nuclear Instrumentation System [IG] Power Range Channel N-41 was declared inoperable at 0224. The applicable Technical Specification action statement was entered. Limiting Condition for Operat on Action Requirement (LCOAR) IBwOS 3.1-la was used to track the actions required by Technical Specifications during N-41 inoperability. With N-41 inoperable, the power range input to the Loop IA Overtemperature Delta Temperature (GTDT) seator protection function was removed. Loop IA OTDT was declared inoperable and OTDT bistable 4110 was placed into a tripped condition to comply with the Technical Specification requirement for OTDT.

During the Shift 1 channel check for pressurizer pressure, the following values were recorded for the channels on 18w05 0.1-1.2.3.

1PI-455A:	2235	psig
1PI-456:	2235	psig
1PI-457:	2230	psig
1P1-458:	2255	psig

At 0930 a scan of the control room indications revealed that IPI-458 was reading approximately 2300 psig and above the deviation limit of 6%. The channel was declared inopprable with LCOAR's 3.1-la and 3.2-la entered to truck the actions required by lechnical Specifications. Since this channel provides an input to OTDT, the Loop ID OTDT was also inoperable. With 2 channels of OTD1 inoperable, Technical Specification 3.0.3 and LCOAR 0.3-2a were entered.

Compliance with this specification required that the unit be placed in Mode 3 (Hot Standby) by 1630. Actions were taken to return N-41 to serilice so that the Loop 1A OTDT could be restored. At 1254, N-41 was declared operable and the Loop 1A OTDT was returned to an operable condition. Technical Specification 3.0.3 and LCOAR 0.3-2a were then exited

This event is being reported pursuant to 10CFR50.73(a)(2)(i)(B) - any operation prohibited by the plant's Technical Specifications.

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#### C. CAUSE OF EVENT:

The cause of the event was component failure. During the review of the pressure trend, it was determined that the pressure started to immediately increase after IPI-458 was returned to service. During the Shift 1 channel check, the deviation exceeded 3%. However, no evaluation of the deviation was documented on the surveillance data sheet. This factor contributed to the length of time that the channel failure went undetected.

### D. SAFETY ANALYSIS:

This event had no effect on the safety of the plant or the public. Redundant channels of reactor protection for OTDT and pressurizer pressure were operable and available to provide indication and initiate protective actions. If the Loop IA GTDT had not been restored, the control room operators would have commenced an orderly plant shutdown to place the unit in a mode where OTDT was not required.

# E. CORRECTIVE ACTIONS:

A Nuclear Work Request was written to replace the failed transmitter. The transmitter was replaced and calibrated. Following the completion of post-maintenance testing, 1PI-458 was declared operable and returned to service at 0530 on April 4, 1992. LCOAR's 3.1-1a and 3.2-1a were exited.

Operator aids have been placed at each unit to increase the awareness of acceptuple channel deviation limits. Prior to this event, the aid was primarily available to the SRO. Operating management has discussed the event with the individuals involved stressing the need to carefully evaluate and document channel deviations on the surveillance data sheet.

# F. FREVIOUS OCCURRENCES:

A search of previous LERs identified previous occurrences of pressure transmitter failures. Also, several similar (non-reportable) events relating to pressure transmitter failures were identified. An evaluation of this transmitter model is in progress and is being tracked to completion by Action Item No. 457-200-88-13301.

## G. COMPONENT FAILURE DATA:

Manufacturer Barton Nomenclature essure Transmitter Model Number 763