Commonwealth Edison Company
Braidwood Generating Station
Route #1, Box 84
Braceville, IL 60407-9619
Tel 815-458-2801

ComEd

January 19, 1996
BW/96-0010

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

Gentlemen:

The enclosed Licensee Event Report from Braidwood Generating Station is being transmitted in accordance with the requirement of 10 CFR 50.36(c)(2) and 10 CFR 50.73(a)(2)(i), which requires a 30-day written report.

This report is number 95-020-00, Docket No. 50-456.

Yours Truly,

T.J. Tulon
Station Manager
Braidwood Nuclear Station

TJT/PS/ema
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Encl: Licensee Event Report
No. 456-95-020-00

cc: NRC Region III Administrator
NRC Resident Inspector
INPO Record Center
ComEd Distribution Center
I.D.N.S.
I.D.N.S. Resident Inspector

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NRC FORM 366 (5-92) U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE EVENT REPORT (LER)

(See reverse for required number of digits/characters for each block)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Braidwood Unit 1	05000456	1 OF 4

TITLE (4) Entry into Technical Specification 3.0.3 due to having two inoperable power range detectors.

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBERS
12	23	95	95	-- 020 --	00	01	18	96	None	
									FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	1
POWER LEVEL (10)	60%

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)

	20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)
	20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)
	20.405(a)(1)(ii)	X	50.36(c)(2)		50.73(a)(2)(vii)		OTHER
	20.405(a)(1)(iii)	X	50.73(a)(2)(i)		50.73(a)(2)(viii)(A)		(Specify in Abstract below and in Text, NRC Form 366A)
	20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)		
	20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER (Include Area Code)
B. Bergmann, Systems Engineering Nuclear Group	(815)458-2801 x2833

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
X	IG	JX	W120	Y						

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
	YES (If yes, complete EXPECTED SUBMISSION DATE).	X NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On 12/23/95, Unit 1 was in Mode 1 at 60% power with Axial Flux Difference calibrations in progress. Power Range channels N41 annd N42 had already been calibrated, and Power Range channel N43 had been placed in test for its calibration, with LCOAR 3.1-1A entered for N43. The initial indication was that Power Range N42 indication began swinging by 10% power, causing spurious rate trips. No other indications of changing reactor power were present. LCOAR 3.1-1A was entered for Power Range N42 and Technical Specification 3.0.3 was invoked at 1539 since both N42 and N43 were inoperable. Power Range channel N43 was restored and LCOAR 3.1-1A and Technical Specification 3.0.3 were exited at 1706, as soon as N42 indication stabilized. Power Range channel N42 was subsequently determined to have a failed power supply. The power supply was replaced and set. Calibrations were completed for channels N43 and N44.

A. PLANT CONDITIONS PRIOR TO EVENT:

UNIT: Braidwood Unit 1 EVENT DATE: 12/23/95
EVENT TIME: 1539
MODE: 1 RX POWER: 60%
RCS [AB] TEMPERATURE/PRESSURE: NOT/NOP

B. DESCRIPTION OF EVENT:

On 12/23/95, Unit 1 was at 60% power during initial power ascension following refueling outage A1R05. Axial Flux Difference (AFD) calibrations per BwVS 3.1.1-5, Incore-Excore Flux Quarterly Calibration, were in progress pursuant to Technical Specification 3.1.1-5 following a 50% power flux map. Calibration of Power Range channels N41 and N42 had been completed, and calibration of Power Range channel N43 had begun. LCOAR 3.1-1A was entered for Power Range channel N43, it was placed in test, and the instrument power fuses were pulled. N43 settings had not yet been altered at the time of the event.

At 1539, Power Range N42 began swinging by 10% power. The indication was verified to be in error through comparison to other indications, LCOAR 3.1-1A was entered for Power Range N42, and Technical Specification 3.0.3 was invoked for channels N42 and N43 both being inoperable.

Since no settings had yet been changed on N43, restoration was performed as soon as the signal from N42 stabilized. Systems Engineering personnel were contacted in order to verify the expected response during restoration. Work began on Power Range channel N42 at 1706, after N43 was restored. N42 was restored to operable at 2034, and AFD calibrations continued with N43.

This event is being reported pursuant to 10CFR50.36(C)(2) and 10CFR50.73(a)(2)(i)(B) for violation of Limiting Condition of Operation 3.1-1A.

NRC FORM 366A (5-92) U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Braidwood Unit 1	05000456	95	-- 020 --	00	3 of 4

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

C. CAUSE OF EVENT:

A failure of the Power Range N42 power supply occurred during scheduled calibration of Power Range N43.

D. SAFETY ANALYSIS:

Unit 1 remained stable at approximately 60% power during the course of this event, therefore no challenge to reactor protection occurred. For this reason, no physical safety impact on plant safety occurred due to this event. The Reactor Protection System was not fully capable during the course of the event, since Power Range channel N42 could not be expected to function correctly if an analyzed event had occurred. Although this condition is not specifically analyzed, it is consistent with the requirements of Technical Specification 3.1-1A Action 2b which allows surveillance testing for a four hour time frame of an operable channel with one channel previously declared inoperable. Power Range channel N43 was capable of performing its intended function immediately upon restoration, and its restoration occurred one hour and twenty-seven minutes into the event.

E. CORRECTIVE ACTIONS:

Immediate corrective actions were to restore Power Range N43 to operable status. A power descension checklist was started one hour into the event, and operability was restored one hour and twenty-seven minutes into the event, allowing the checklist to be stopped prior to any actual power decrease and Technical Specification 3.0.3 to be exited.

The Power Range channel N42 power supply was subsequently replaced, and the channel was restored. Analysis of the failure mode for Maintenance Rule applicability per 10CFR50.65 will be tracked to completion by NTS Action Item #456-180-95-02001.

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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

F. PREVIOUS OCCURRENCES:

The model of the power supply which failed during this event has been identified in six other cases where failure or degradation of a power supply occurred at Braidwood Station. Four of the previous failures were identified as complete loss of high voltage, but none of the previous failures exhibited the symptoms shown by this failure. The Power Range channel N42 power supply was successfully calibrated during A1R05 per 1BwIS 3.1.1-251, Channel Verification/Calibration of Nuclear Instrumentation Power Range N41. None of the previous failures resulted in a failure to meet a Limiting Condition for Operation.

G. COMPONENT FAILURE DATA:

The power supply which failed as a part of this event was a Westinghouse high voltage power supply, part number UPMD-X54W.