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 AUTH. NAME AUTHOR AFFILIATION
 THAYER, D. Commonwealth Edison Co.
 BAX, R.L. Commonwealth Edison Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 93-014-00: on 930902, discovered that IRM 11 & APRM both in bypassed condition w/o half scram being inserted due to work practices. IRM 11 taken out of bypassed condition & individual involved counselled. W/931001 ltr.

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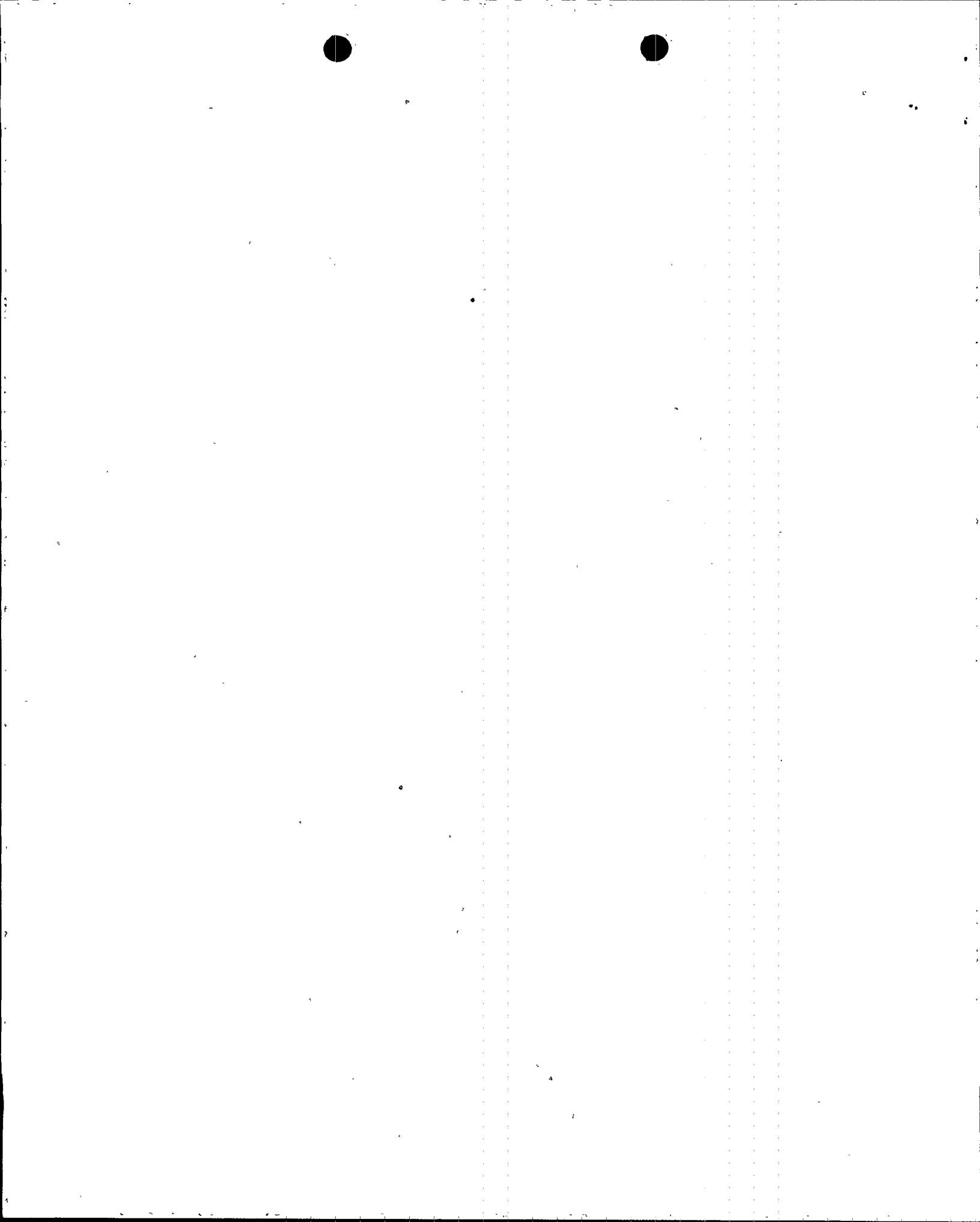
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	NRR/DE/EELB	1 1	NRR/DE/EMEB	1 1
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	NRR/DRCH/HICB	1 1	NRR/DRCH/HOLB	1 1
	NRR/DRIL/RPEB	1 1	NRR/DRSS/PRPB	2 2
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	REG FILE 02	1 1	RES/DSIR/EIB	1 1
	RGN3 FILE 01	1 1		
EXTERNAL:	EG&G BRYCE, J.H	2 2	L ST LOBBY WARD	1 1
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RLB-93-143

October 1, 1993

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

Reference: Quad Cities Nuclear Power Station
Docket Number 50-254, DPR-29, Unit One

Enclosed is Licensee Event Report (LER) 93-014, Revision 00, for Quad Cities Nuclear Power Station.

This report is submitted in accordance with the requirements of the Code of Federal Regulations, Title 10, Part 50.73(a)(2)(i)(B). The licensee shall report any operation or condition prohibited by the plant's Technical Specification.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD CITIES NUCLEAR POWER STATION

R. L. Bax

R. L. Bax
Station Manager

RLB/TB/plm

Enclosure

cc: J. Schrage
T. Taylor
INPO Records Center
NRC Region III

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LICENSEE EVENT REPORT (LER)

Form Rev. 2.0

Facility Name (1) Quad Cities Unit One										Docket Number (2) 0 5 0 0 0 2 5 4					Page (3) 1 of 0 4		
Title (4) IRM #11 and APRM #3 Were Both Bypassed Without A 1/2 Scram Being Inserted																	
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 Names	Docket Number(s)							
										0 5 0 0 0							
0 9	0 2	9 3	9 3	- 0 1 4	- 0 0	1 0	0 1	9 3		0 5 0 0 0							
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10CFR (Check one or more of the following) (11)														
POWER LEVEL (10) 1 0 0			04			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)			50.36(c)(2)			50.73(a)(2)(vii)			Other (Specify in Abstract below and in Text)					
			20.405(a)(1)(iii)			X 50.73(a)(2)(i)			50.73(a)(2)(viii)(A)								
			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 Dale Thayer, Ext. 3109										TELEPHONE NUMBER							
										AREA CODE							
										3 0 9		6 5 4 - 2 2 4 1					
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								
A																	
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 fifteen single-space typewritten lines) (16)																	

A. ABSTRACT:

Unit 1 was in the RUN mode at 100% power on 09/01/93 at 1714 hours when Average Power Range Monitor (APRM) [IG, MON] #3 was placed in the bypassed condition. On 09/02/93 at approximately 0100 hours, Intermediate Range Monitor (IRM) [IG, MON] #11 was placed in the bypassed condition due to being subject to spiking problems, and no half scram was inserted as a result of IRM #11 and APRM #3 both being in the bypassed condition.

At 0825 hours on 09/02/93, the Unit 1 Nuclear Station Operator (NSO) discovered that IRM #11 and APRM #3 were both in the bypassed condition without a half scram being inserted.

The immediate corrective action performed by the Unit 1 NSO was taking IRM #11 out of the bypassed condition at 0825 hours on 09/02/93.

The primary causal factor of this event is WORK PRACTICES.



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								Year	Sequential Number	Revision Number			
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TEXT Energy Industry Identification System (EIS) codes are identified in the text as [XX]													

PLANT AND SYSTEM IDENTIFICATION:

General Electric - Boiling Water Reactor - 2511 Mwt rated core thermal power.

EVENT IDENTIFICATION: IRM # 11 and APRM # 3 were both bypassed without a 1/2 scram being inserted.

A. CONDITIONS PRIOR TO EVENT:

Unit: One

Event Date: September 2, 1993

Event Time: 0825

Reactor Mode: 4

Mode Name: RUN

Power Level: 100%

This report was initiated by Licensee Report 254/93-014.

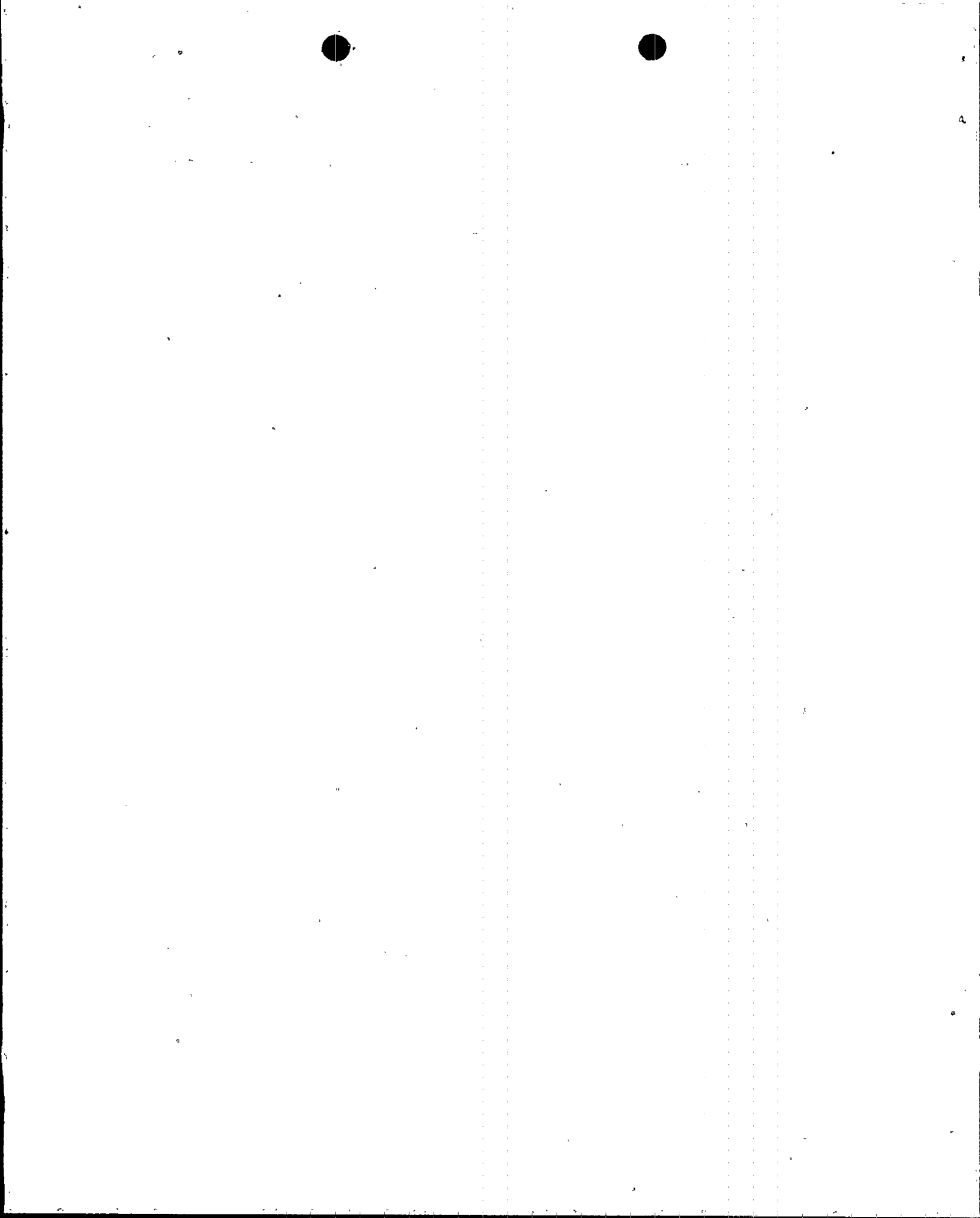
RUN (4) - In this position the reactor system pressure is at or above 825 psig, and the reactor protection system is energized, with APRM protection and RBM interlocks in service (excluding the 15% high flux scram).

B. DESCRIPTION OF EVENT:

On 09/01/93 (shift #3 on duty), Unit 1 was operating in the RUN mode at 100% power when Average Power Range Monitor (APRM) [IG, MON] #3 was placed in bypass at 1714 hours for Instrument Maintenance personnel to perform Local Power Range Monitor (LPRM) [IG, MON] calibration.

On 09/02/93 at approximately 0100 hours (shift #1 on duty), the Unit 1 Nuclear Station Operator (NSO) was taking log readings and the Shift Control Room Engineer (SCRE) was walking down the Unit 1 control boards [CBD]. The SCRE noticed the Nuclear Work Request (NWR) tag on the Intermediate Range Monitor (IRM) [IG, MON] bypass which is used to bypass IRM #11 and several other IRM channels. From experience and the presence of the NWR tag, the SCRE was aware that IRM #11 was subject to spiking. The SCRE believed that IRM #11 should be placed in bypass, and reported this situation to the Unit 1 NSO. The SCRE recommended to the NSO that IRM #11 be placed in bypass. The Unit 1 NSO agreed with the SCRE's recommendation, and the SCRE placed IRM #11 in bypass. The SCRE and the Unit 1 NSO failed to self-check and notice that APRM #3 was already bypassed, thereby requiring a half scram to be inserted in accordance with Technical Specification Section 3.1.

On 09/02/93 at 0825 hours (shift #2 on duty), the Unit 1 NSO discovered that IRM #11 and APRM #3 were both in the bypassed condition without a half scram being inserted, and immediately took IRM #11 out of bypass. The duration of this event was approximately 7 hours, 25 minutes.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION												Form Rev. 2.0	
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<small>TEXT Energy Industry Identification System (EIS) codes are identified in the text as [XX]</small>													

C. APPARENT CAUSE OF EVENT:

The primary Casual Factor related to this event is WORK PRACTICES. This Casual Factor contributed to this event due to the shift #1 NSO and SCRE failing to perform "Self Check" before bypassing IRM #11 in that they did not recognize the need for inserting a half scram due to APRM #3 already being in the bypassed condition.

D. SAFETY ANALYSIS OF EVENT:

The safety impact of this event is minimal due to:

1. the IRM/APRM scram protection feature is provided to afford protection at low reactor power levels to assure adequate reactor power monitoring capability. The plant was not operating in a condition that this feature is designed to protect against.
2. the IRM/APRM scram protection feature has been evaluated and has been proposed to be removed from the Technical Specifications in the Technical Specification Upgrade Program. This trip feature has already been removed from the Dresden Units 2 and 3 Technical Specifications.

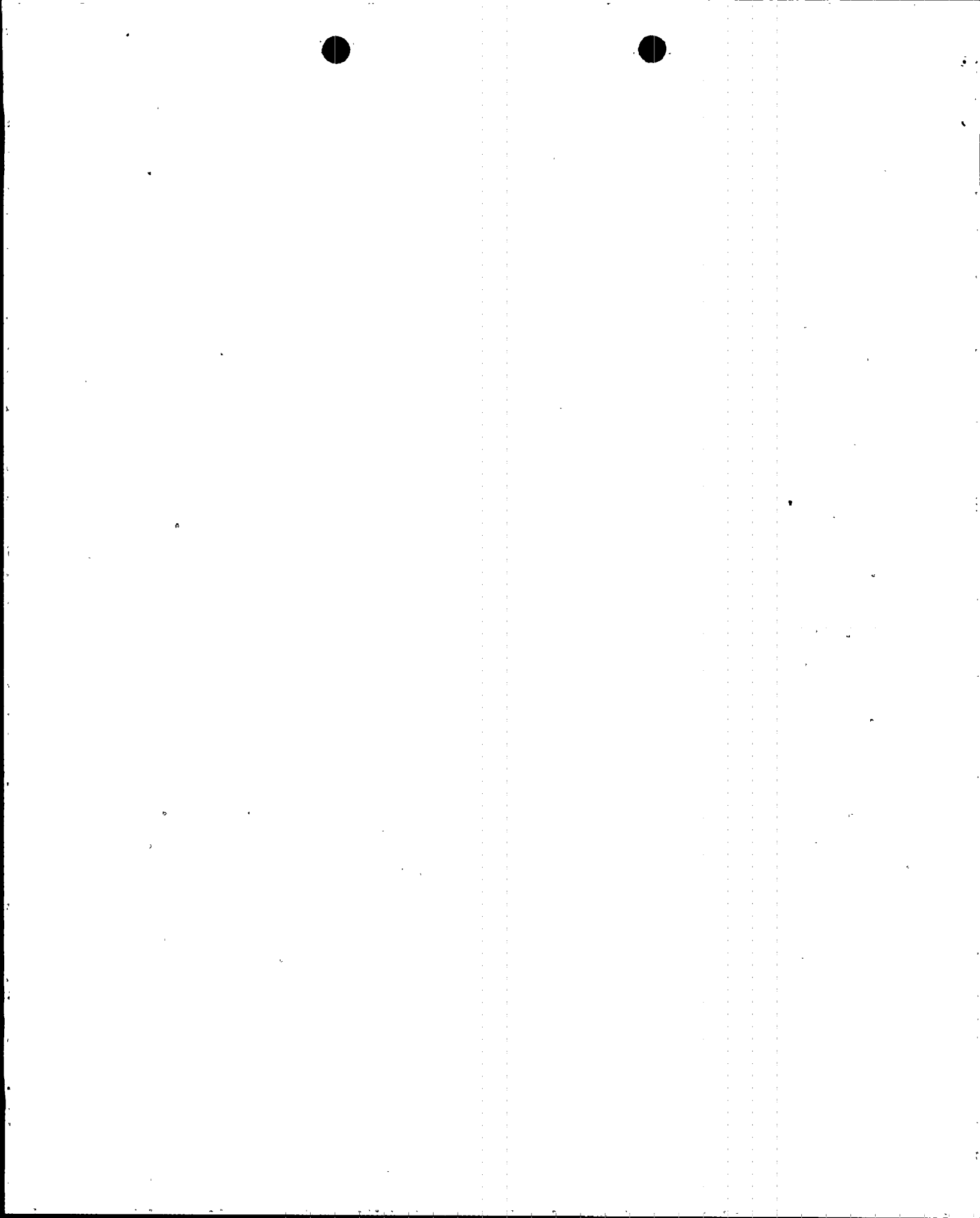
E. CORRECTIVE ACTIONS:

1. CORRECTIVE ACTIONS COMPLETED:

- a. IRM #11 was taken out of the bypassed condition.
- b. The individuals involved were counselled, and the self-check program has been re-emphasized with the entire Operating department.

2. CORRECTIVE ACTIONS TO BE COMPLETED:

- a. Regulatory Assurance will ensure prompt completion of the station's actions in response to SOER 92-1, Reducing the Occurrence of Plant Events Through Improved Human Performance, with respect to re-evaluating and upgrading the self-check program. (This corrective action was previously identified in Investigation Report #254-180-93-01700, dated 09/17/93, and is being tracked as NTS #254-180-93-01711.)
- b. Regulatory Assurance will perform a follow-up review within 3-6 months of the Integrated Reporting Process human performance cause code data and, if warranted, implement a station-wide effective human error reduction program. (This corrective action was previously identified in Investigation Report #254-180-93-01700, dated 09/17/93, and is being tracked as NTS #254-180-93-01712.)



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Quad Cities Unit One				0 5 0 0 0 2 5 4				9 3	-	0 1 4	-	0 0	4 OF 0 4

TEXT Energy Industry Identification System (EIS) codes are identified in the text as [XX]

- c. Technical Specification changes have been submitted as part of the Technical Specification Upgrade Program which will eliminate this trip feature. The approval of these changes is not expected until 1995. A separate revision will be prepared and submitted to the NRC to remove the companion trip feature from the Quad Cities Technical Specifications. This will provide for a more timely revision. (This corrective action was previously identified in LER 1-93-18, and is being tracked as NTS #254-180-93-01801.)

F. PREVIOUS EVENTS:

The following previous events were identified relating to IRM/APRM companion trip from 1988 to the present:

LER 88-004, Unit 2 APRM #4 was bypassed while IRM #15 was already bypassed without a half scram being inserted. Duration of the event was 18 minutes.

LER 93-018, Unit 1 APRM #4 was bypassed while IRM #16 was already bypassed without a half scram being inserted. Duration of the event was 16 minutes.

G. COMPONENT FAILURE DATA:

There were no equipment failures directly involved in this event. This report is not NPRDS reportable.

