φ7-187-91

NIAGARA MOHAWK POWER CORPORATION

NINE MILE POINT NUCLEAR STATION

UNIT II OPERATIONS

02-REQ-007-355-2-01 Revision 0 02-NLO-007-355-2-01 02-LOT-007-355-2-01

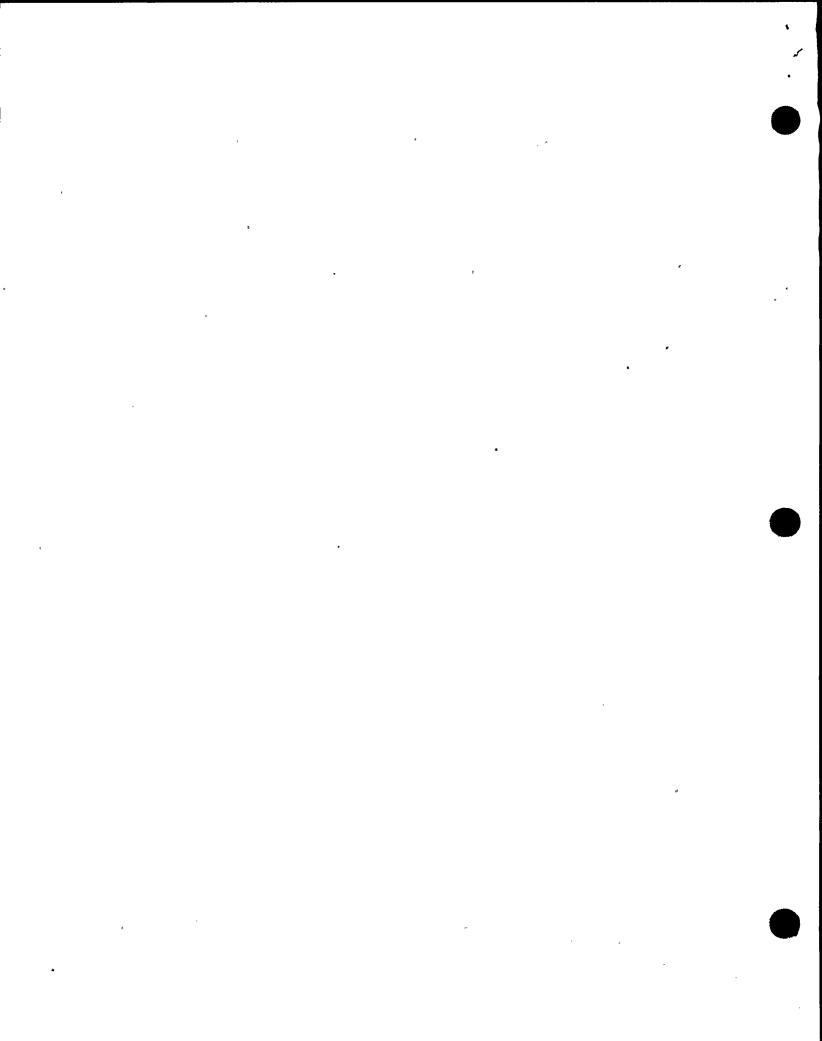
TITLE: VALVE MISPOSITIONING EVENTS INV	OLVING HUMAN ERROR
PREPARER TRAINING SUPPORT SUPERVISOR TRAINING SUPERVISOR PLANT SUPERVISOR Summary of	10/18/89 10-18-89 10/18/87 10/18/87
(Effective Date:	10/18/89>
Number of Pages	: _12_
<u>Date</u> September 1989	<u>Pages</u> 1 - 12
TRAINING DEPARTMENT RECORDS VERIFICATION: LA	ADMINISTRATION ONLY:

9305030300 911031 PDR ADDCK 05000410 S PDR W5/3/30D

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ATTACHMENT 6 LESSON PLAN TEMPORARY/PUBLICATION/ADDENDUM CHANGE FORM

The attached change was made to:
Lesson plan title: Value Mispositioning Events Inovolving Human Zin
Lesson plan number: 02 - REQ/NLO/LOT - 007 - 355 - 2-01 Rev 0
Name of instructor initiating change:
Reason for the change: To incorporate 700-02-616-90-073
into the LP. This newportes the Lessons Learned from
OR # 89-149 into the LP. At the next revision of
The lesson Plan, This addendem com be added to the
Type of change: LP permanently and the leddenden
clane cancelled. This adduden
1. Temporary change includes the malified are Stude
2. Publication change formal (page A) and a carry of
3. Addendum change Phe OR (pages AZ - A6) and
copies of the OR close and document.
Disposition: (pages A-7 & 8)
1. Incorporate this change during the next scheduled revision.
2. Begin revising the lesson plan immediately. Supervisor initiate the process.
3. To be used one time only.
Approvals:
Instructor: /Date 7/1/9/
Training Area Supervisor - ## ## Mulus /Date 7/2/9/



I. TRAINING DESCRIPTION

- A. Title of Lesson: Valve Mispositioning Events Involving Human Error
- B. Lesson Description:
 - Provide training on uniform valve positioning and position verification methods to prevent degradation of safety system functions and lost plant availability.
- C. Estimate of the Duration of the Lesson: 2 hours
- D. Method of Evaluation and Grade Format: Open reference written exam and receive 80% or better score.
- E. Method and Setting of Instruction: Classroom lecture
- F. Prerequisites:
 - 1. Instructor:
 - a. Demonstrated knowledge and skills in the subject, at or above the level to be achieved by the trainees, as evidenced by previous training or education, or
 - b. SRO license for Nine Mile Point Unit Two or a similar plant, or successful completion of SRO training including simulator certification at the SRO level for Nine Mile Point Unit Two.
 - c. Qualified in instructional skills as certified by the Training Analyst Supervisor.

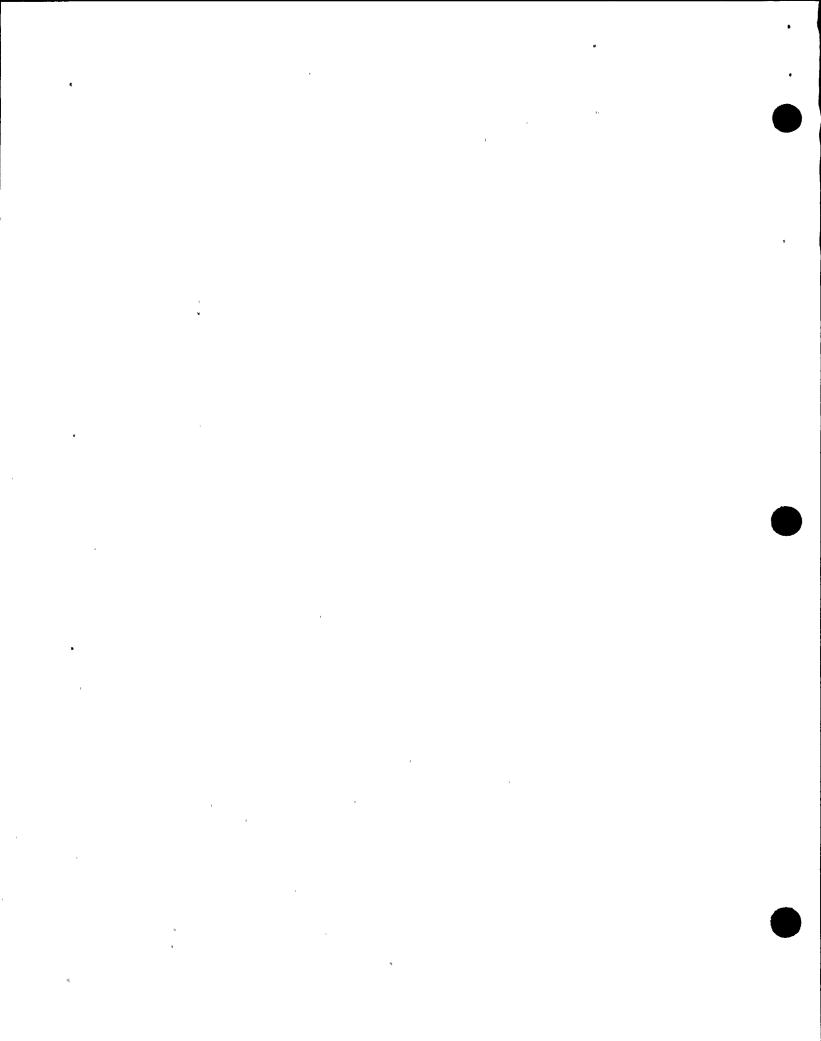
2. Trainee:

- a. Meet eligibility requirements per 10CFR55 or
- b. Be recommended for this training by the Operations Superintendent or his designee or the Training Superintendent.

G. References:

- INPO 87-003, Good Practice OP-214, Independent Verification, June 1987.
- 2. INPO SOER, 85-2, Valve Mispositioning Events Involving Human Error
- 3. INPO 85-017, Guideline, Guidelines for the Conduct of Operations at Nuclear Power Stations.
- 4. LER 410-88-01, Rx Scram Due to a Loss of Feedwater Flow Caused by Personnel Error.
- 5. SER 16-89, RCIC Suction Line Over Pressurization.

Valve Mispositioning Events Involving Human Error -1 September 1989 Unit 2 Ops/1994



- 6. N2-ODI-5.08 Operator Good Practices ·
- 7. NMP55509 Lessons Learned RWCU Transient
- 8. OR 89-146 WCS Isolation due to High NRHX outlet temperature

II. REQUIREMENTS

A. As recommended in INPO SOER 85-2, Valve Mispositioning Events Involving Human Error, Training Recommendations.

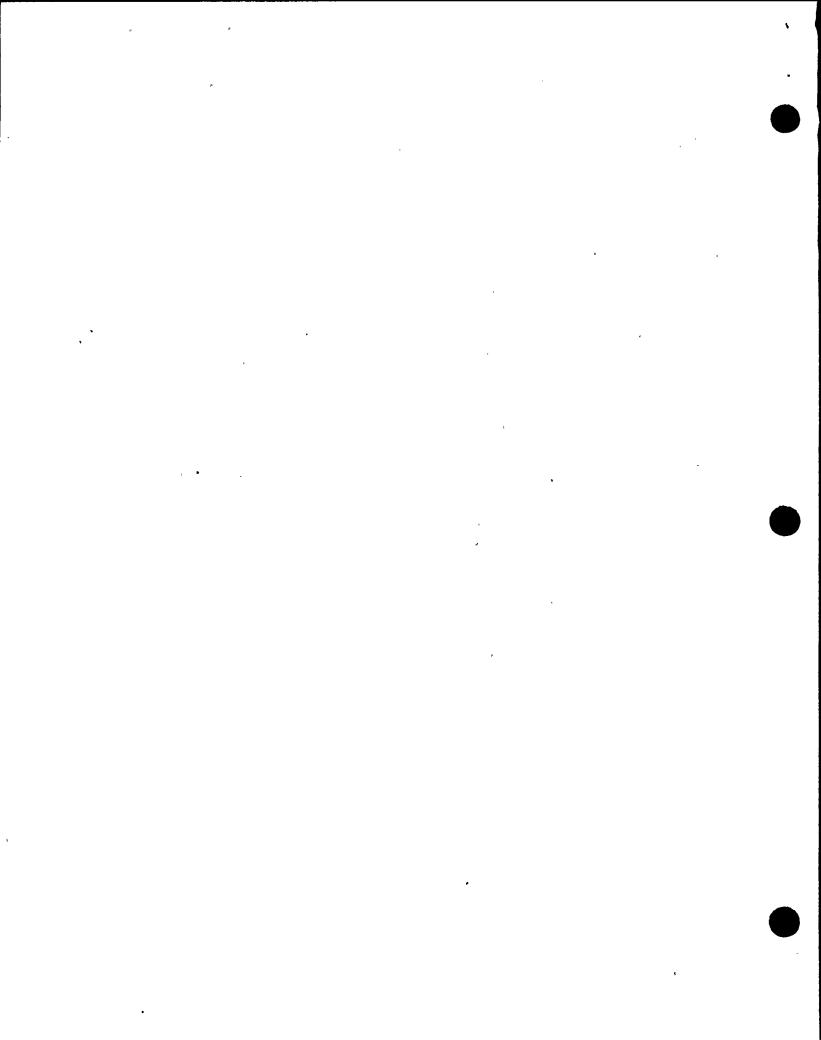
III. TRAINING MATERIALS

- A. Instructor Materials:
 - 1. Instructor copy of Lesson Plan
 - 2. Whiteboard and Markers
 - 3. Transparency package
 - 4. Copy of SOER 85-2, Valve Mispositioning Events Involving Human Error
 - 5. Copy of LER 88-01, Rx Scram Due to Loss of Feedwater Flow.

 Caused by Personnel Error
- B. Trainee Materials:
 - Copy of SOER 85-2, Valve Mispositioning Events Involving Human Error
 - Copy of LER 88-01, Rx Scram Due to Loss of Feedwater Flow Caused by Personnel Error

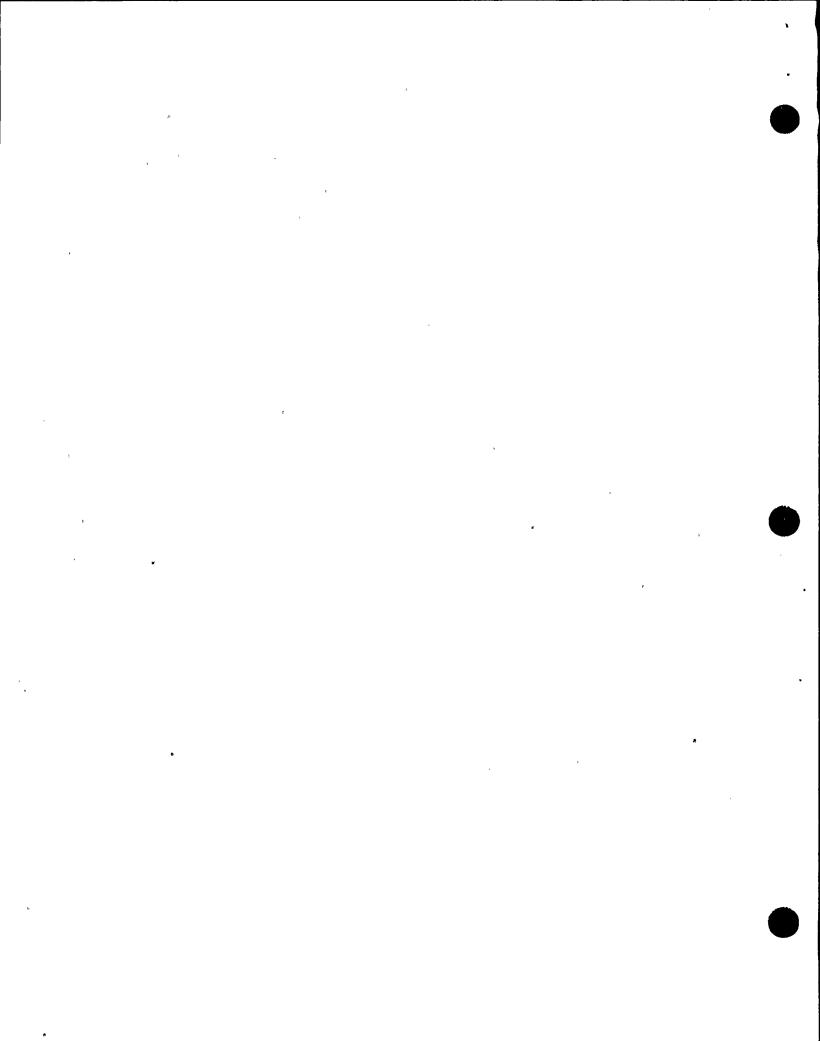
IV. EXAMINATIONS AND MASTER ANSWER KEYS

Exams and answer keys are filed with requal records.



V. LEARNING OBJECTIVES

- A. Terminal Objectives
 - TO-1.0 Properly position and/or verify position of a valve in accordance with approved procedures or orders.
- B. Enabling Objectives
 - EO-1.1 State the method for verifying a manual valve is in the open position.
 - EO-1.2 State the method for verifying a manual valve is in the close position.
 - EO-1.3 State the method for verifying a manual valve is in a throttled position.
 - EO-1.4 State the method for verifying a manual valve is in the locked open position.
 - EO-1.5 State the method for verifying a manual valve is in a locked throttled position.
 - EO-1.6 State the alternate methods of determining valve position when the normal method is not available (valve inaccessible).
 - EO-1.7 State the actions required if a valve position discrepancy is found during a lineup.
 - EO-1.8 State the action required if a procedural discrepancy is found during a lineup.
 - EO-1.9 Given a case study event identify the contributing factors in each.



I. INTRODUCTION

A. Purpose

- Provide uniform methods of determining valve position and positioning valves.
- Review valve mispositioning events and there effect on safety systems and plant availability.

B. Summary

- 1. Valve mispositioning events cause:
 - a. Degradation of safety systems.
 - Reduced plant availability.
- Human error predominant cause.

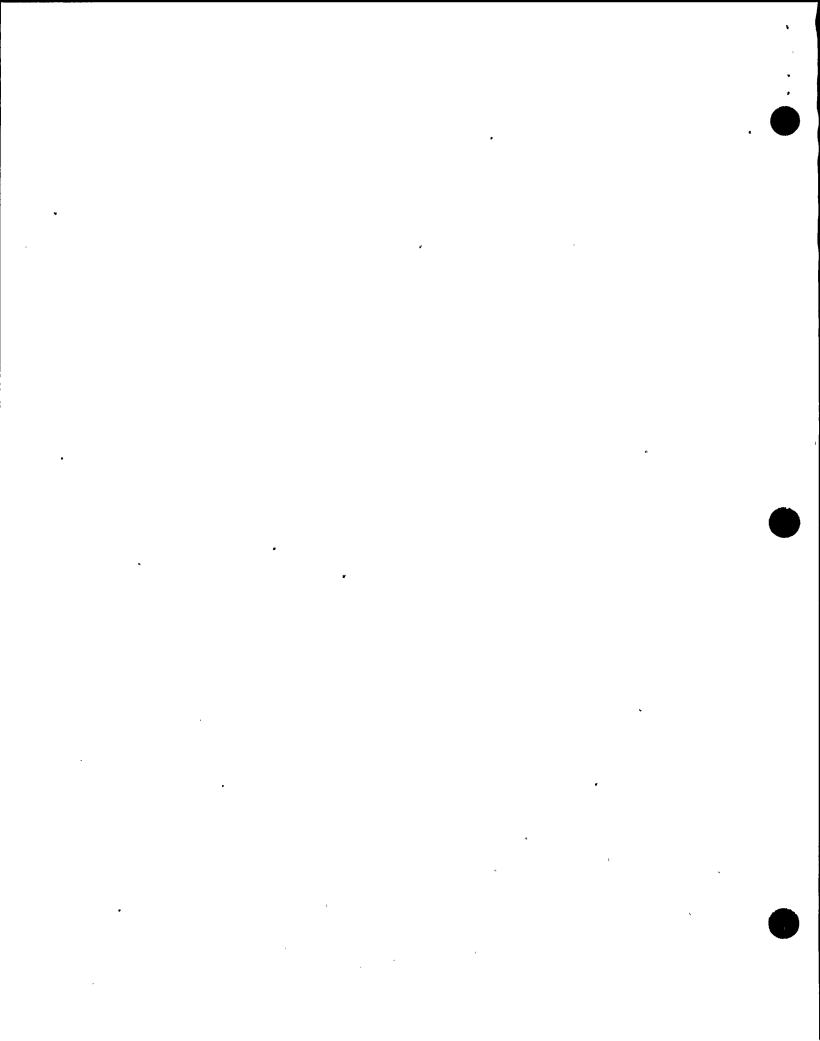
C. Case Studies

- 1. Case A
 - a. Event
 - Safety related instrument isolation valves left closed following maint.
 - Two valves found during review of operators rounds book.
 - 3) Third valve found when an alarm did not clear.
 - 4) Fourth valve found during restoration of third valve.

Filling Ref. legs

ATWS pressure transmitters read O psig during S/U-H/U and increase in pressure.

Valve Mispositioning Events Involving Human Error —4 September 1989 Unit 2 Ops/1994



b.	Contributing	Factors
~ .		. ~ ~ ~ ~ ~

 No formal work requests as required by procedures.

WR should have been generated.

Valve check list not used.

All valve manipulation should be done using procedure or checklist. Human error.

No post job valve lineup check. Post maintenance error.

4) Failure to recognize abnormal data during rounds log taking.

Should utilize normal band identified in log sheets. Two recent LERs involving this.

5) Log review inadequate. (LER 89-16, 89-17)

c. Effect

Nimo will now use additional SRO to review logs. Human Error

 Loss of one division of ATWS CKT. T.S. inoperability

2. Case B

- a. Event
 - Containment penetration valves not closed following maintenance.

Service air penetrations

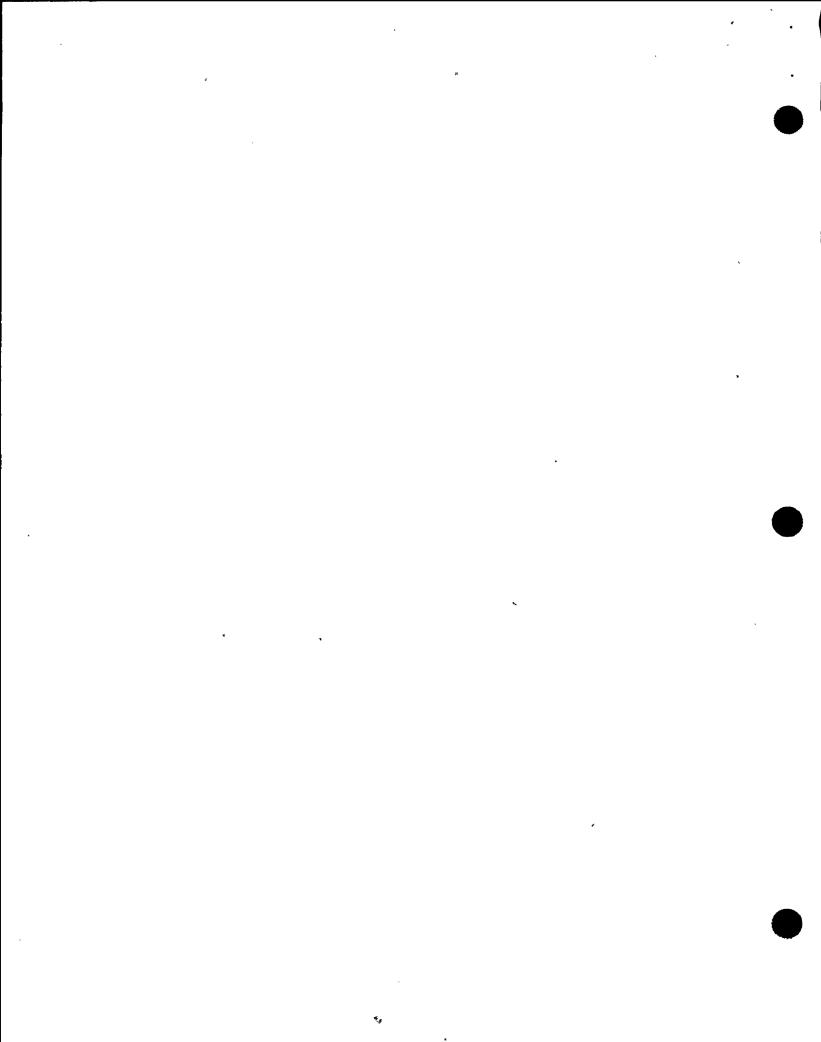
- 2) Found when oxygen concentration and nitrogen makeup were off normal.
- b. Contributing factors

1.9

 No entry made in locked valve log as required by procedures.

Procedural violation - Human error

Valve Mispositioning Events Involving Human Error -5 September 1989 Unit 2 Ops/1994



2)	No drywell closeout
	procedure.
3)	No procedure directs

Close out procedure should cover valves manipulated during entry.

valve closure.

Procedural discrepancy

4) Startup checklists did not require lock valve check.

Procedural discrepancy

c. Effect

1) Potential containment leakage path.

Problem in Cond. 1, 2, 3

3. Case C

a. Event

1) Test connection and inboard containment isolation valves left open by contractor.

Newly installed DBA recombiner

2) Found during torus inspection while operating.

Noticed air flow through test connection.

b. Contributing factors

1.9

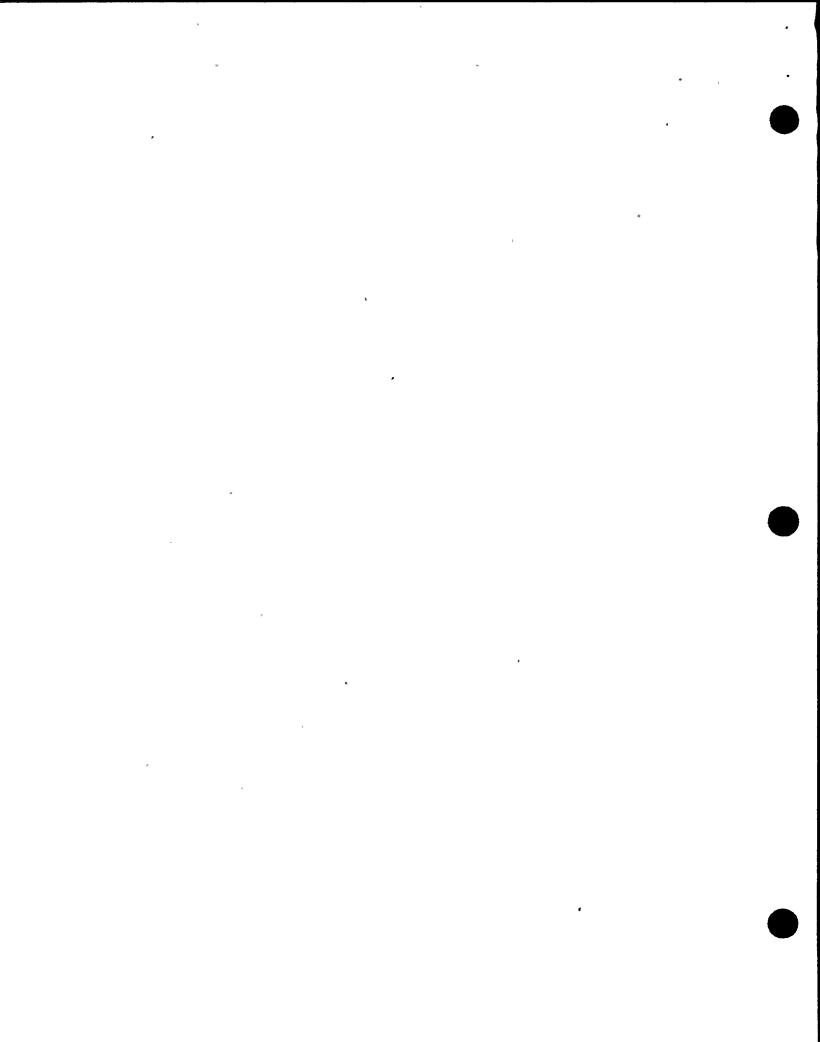
1) Lack of coordination between construction contractor and operations personnel. Inadequate markup procedure.

2) Plant operator

placed tags on wrong valves.

3) No identification tags on valves.

In attention to detail - Human error. (NMP2 requires two Operators checking markup accuracy and hanging.) Being addressed at both units.



1.9

- 4) System alignment verification waived at work completion superintendent thought the check would be on prestartup check sheet.
- 5) Valves not included on pre-startup checklist.

Procedural discrepancy

c. Effect

Containment leakage path.

Problem in mode 1, 2, 3

4. Case D

a. Event

 Cooling FCV left closed and tagged after maintenance on heat exchanger. Cooling water from containment spray.

2) Found during nonroutine flow balancing test.

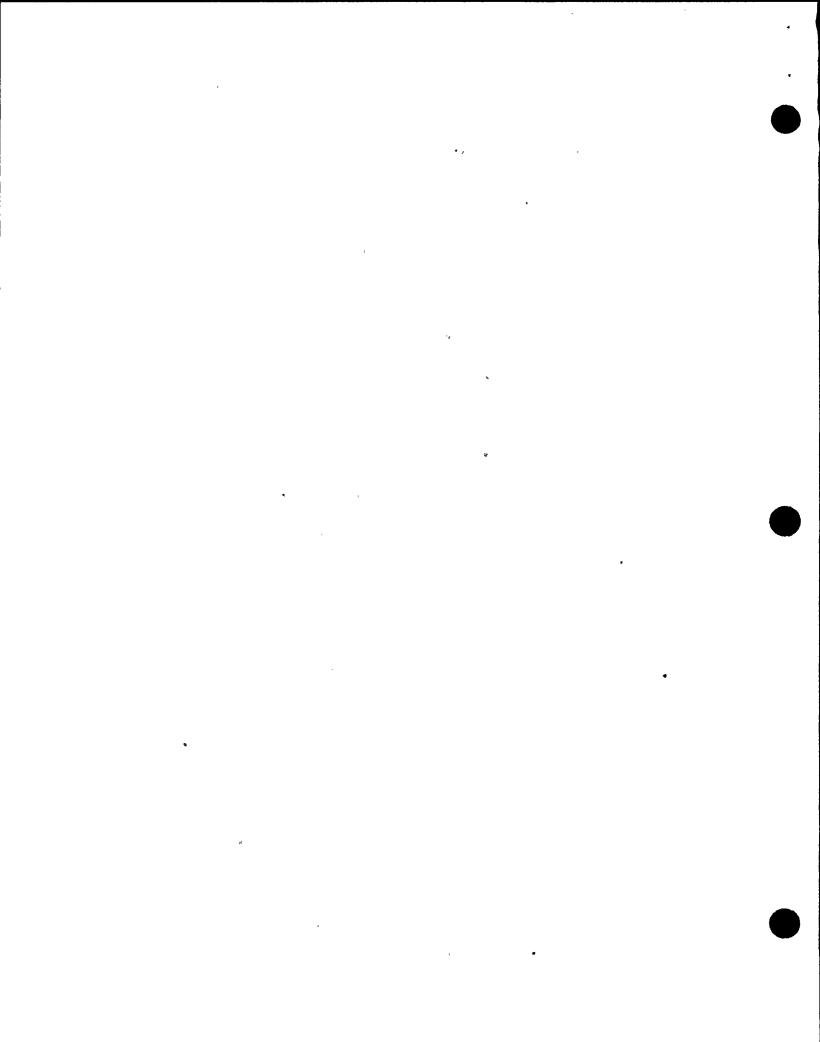
Noticed hold tag still hanging on valve during non related surv.

b. Contributing factors

Poor procedure control.

- No administrative procedure to account for hold notice tags.
- 2) Operability check of cooling water side of heat exchanger not required by post-maintenance procedure.

Post maintenance testing.



3) Valve not included on pre-startup checklist.

Procedural discrepancy

4) Routine surveillance failed to detect

mispositioned valve.

Missed valve - human error.

c. Effect

1) Unavailability of cooling for one of two primary containment spray systems.

T.S. inoperability

5. LER 88-01

a. Event

- 1) Incorrectly determined standby prefilter lineup in IAS.
- 2) Valved out on line prefilter.

Air pressure loss caused FWP min flow valves failed open causing

3) Found error when air pressure decayed and " caused scram.

loss of feed.

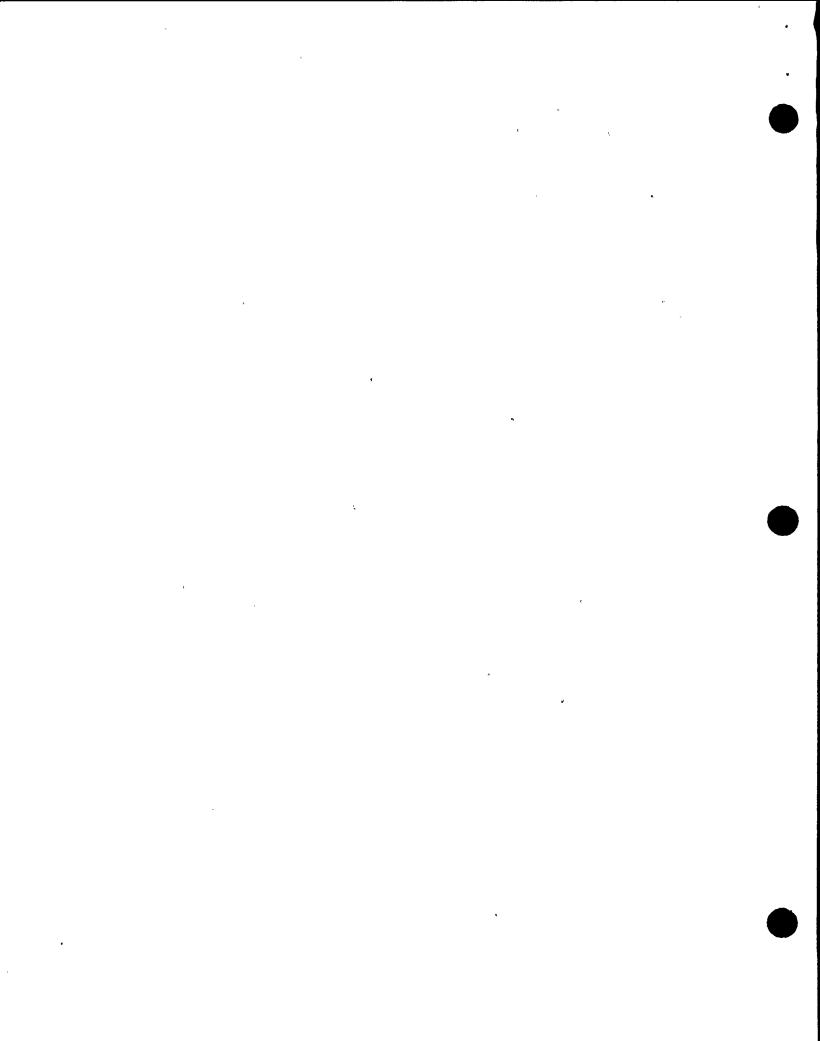
Stem position only used if marked.

b. Contributing factors

1.9

- Operator improperly verified valve position by observing stem length.
- 6. OR 89-146
 - a. Event
 - 1) Manual valves mis- positioned.
 - 2) Filter-Demin placed in service.

Valve Mispositioning Events Involving Human Error -8 September 1989 Unit 2 Ops/1994



3)	Reactor Water
	discharge to
	Phase Seperators
Con	tributing Factors

- b)
 - Manual valves operated/put in abnormal line-up without; -notifying SSS of specific status -procedural controls -Administrative controls (markup/hold-out) -Log entry
- ·D. Position Verification
 - 1. Unlocked valves

1.1

- Open a.
 - 1) Manipulate in closed direction.

-Turnover notifi-

cation.

2) Remove slack from operating mechanism.

3) Verify valve stem

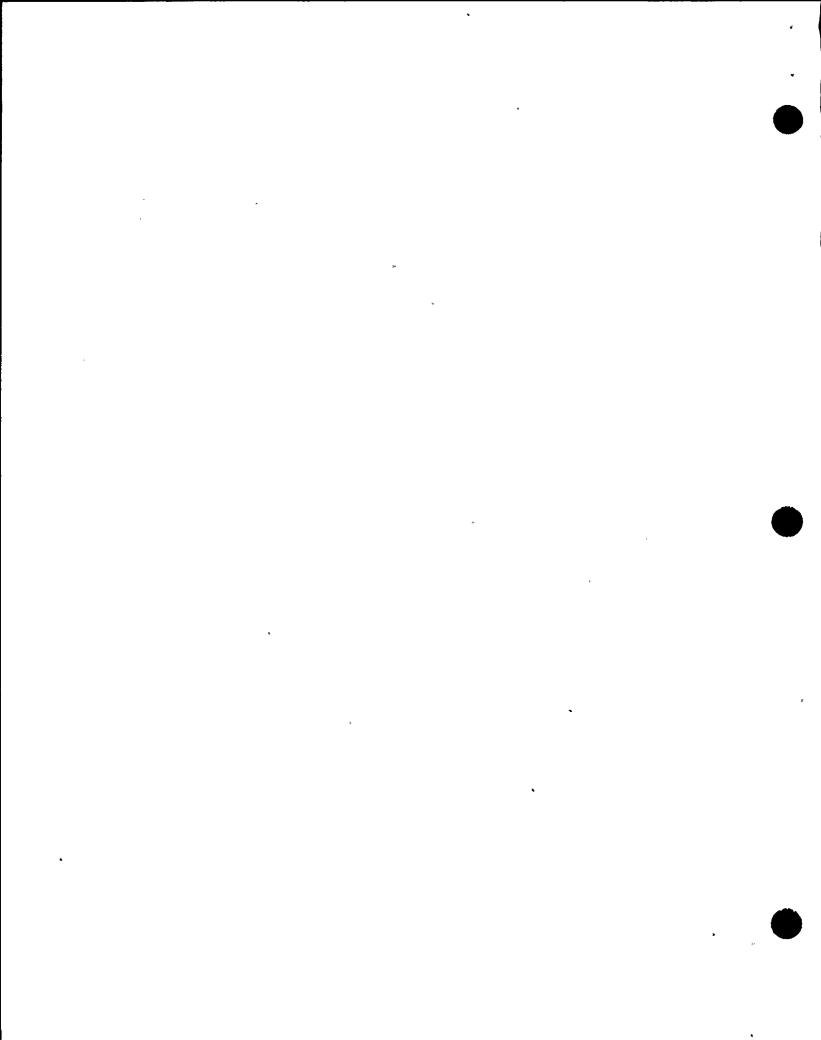
movement. 4) Reopen

1.2

1.1

- b. Closed
 - 1) Manipulate in closed direction.
 - 2) Only as necessary to verify valve is closed and not binding or difficult to operate.

Valve Mispositioning Events Involving Human Error -9 September 1989 Unit 2 Ops/1994



a. If possible at least one check should be done locally at valve. 1) Remote position

LESSON CONTENT

c. Throttled

2. Locked valves

verification

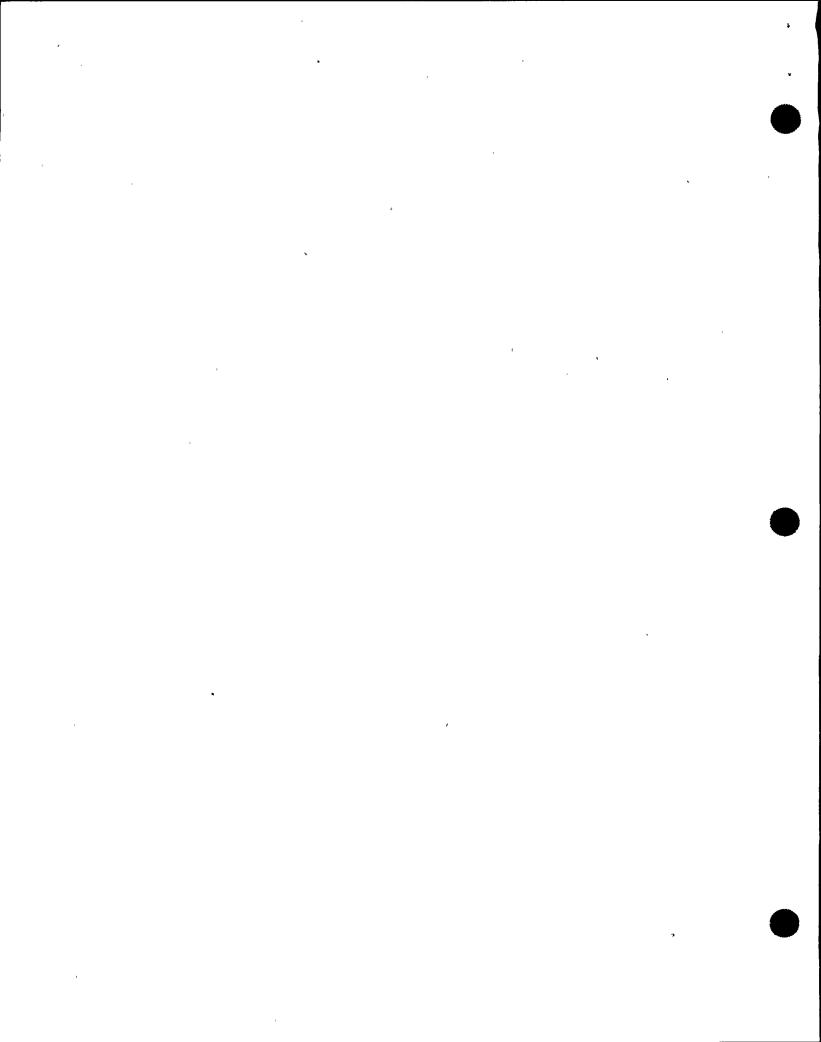
position.

indicators.

a) Acceptable for initial and second verification if periodic testing proves indicators are accurate.

b) Should utilize different remote . indicators when available.

Valve Mispositioning Events Involving Human Error -10 September 1989 Unit 2 Ops/1994

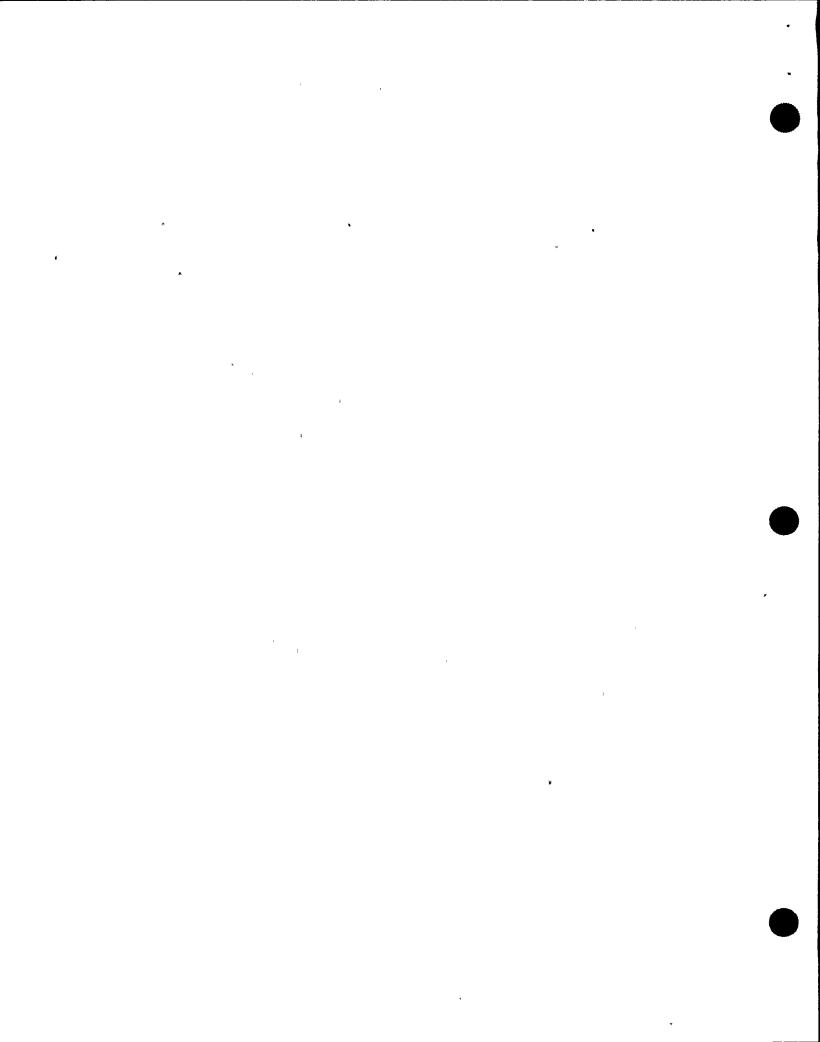


2) Use of process parameters

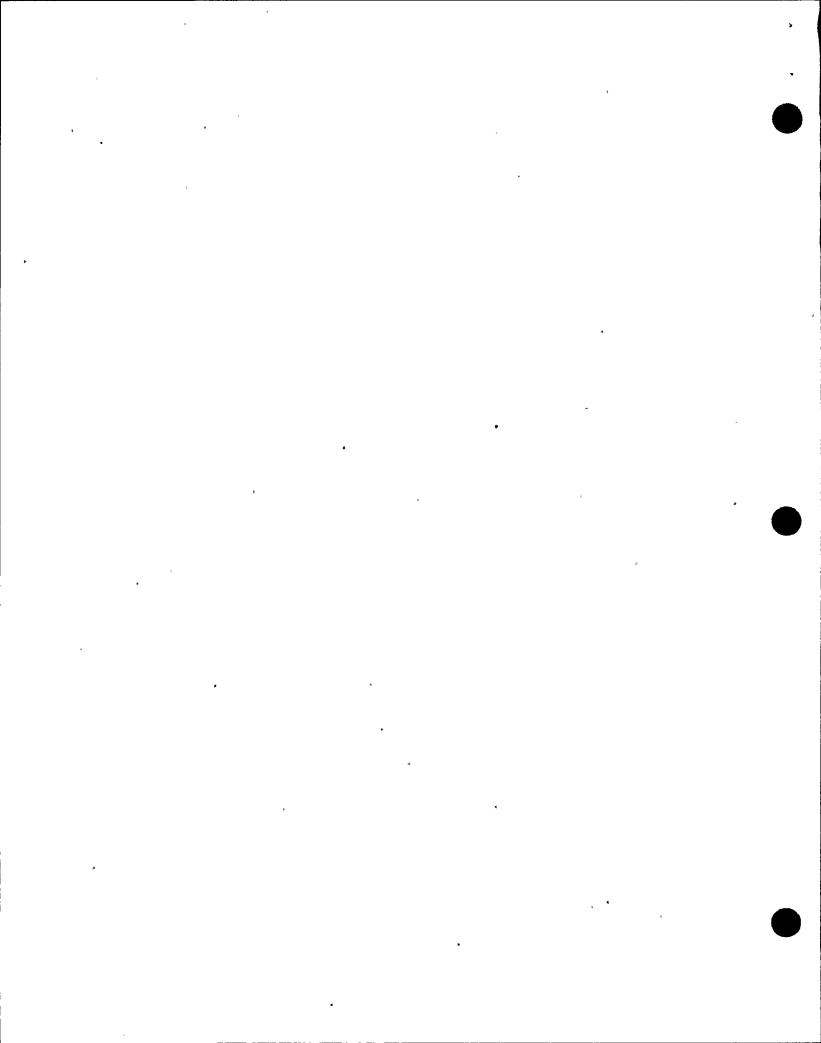
a) Care must be taken due to possible alternate conditions that make method unreliable. Alternate flow paths.

- 3) Observation of valve stem possible.
 - a) Only used as an aid if stem is marked.
 - b) Not to be used as sole determinant of a valves position.
- 4) Authorized scribe marks on valve for throttle valves.
- 5) Functional mechanical position indicators.
- E. Position Verification
 Performances
 - 1. Should ensure each verification constitutes:
 - a. Actual component identification.
 - b. Determination of required position.
 - c. Determination of actual position.

1.6



LESSON CONTE	NT	DELIVERY NOTES	NOTES
2.	If discrepancy is found while verifying position station shift supervisor shall be notified immediately.		1.7
3.	Follow approved procedure/ valve lineup. a. If incorrect notify station shift supervisor.	OP/OSP/Valve lineup	1.8
4.		,	





LESSON CONTENT

A. OR MODIFIED CASE STUDY

Using the modified case study format, discuss the events Have each trainee read a paragraph REF DOC described in OR #89-149"CONTAMINATION OF DFM SUMP #5 of the event description(reference WHICH IS OUTSIDE THE RESTRICTED ZONE"

- 1.Plant conditions:
 - a.mode switch in RUN
 - **b.PLANT STATUS OPERATING**
 - c.Rx Pwr 25%
- 2.Related Surveillance: N/A
- 3. Sequence of Events:
 - a.SAMPLE ANALYZED FROM SUMP #5
 - b.SUMP FOUND TO BE CONTAMINATED
 - C.SUMP OUTSIDE THE RESTRICTED AREA
 - d.SUMP ISOLATED AND PUMP SECURED

document Page 1 THROUGH 4). After each paragraph, have the class pick key points of that paragraph to be listed on the board to aid in analysis of the event.

OR #89-149

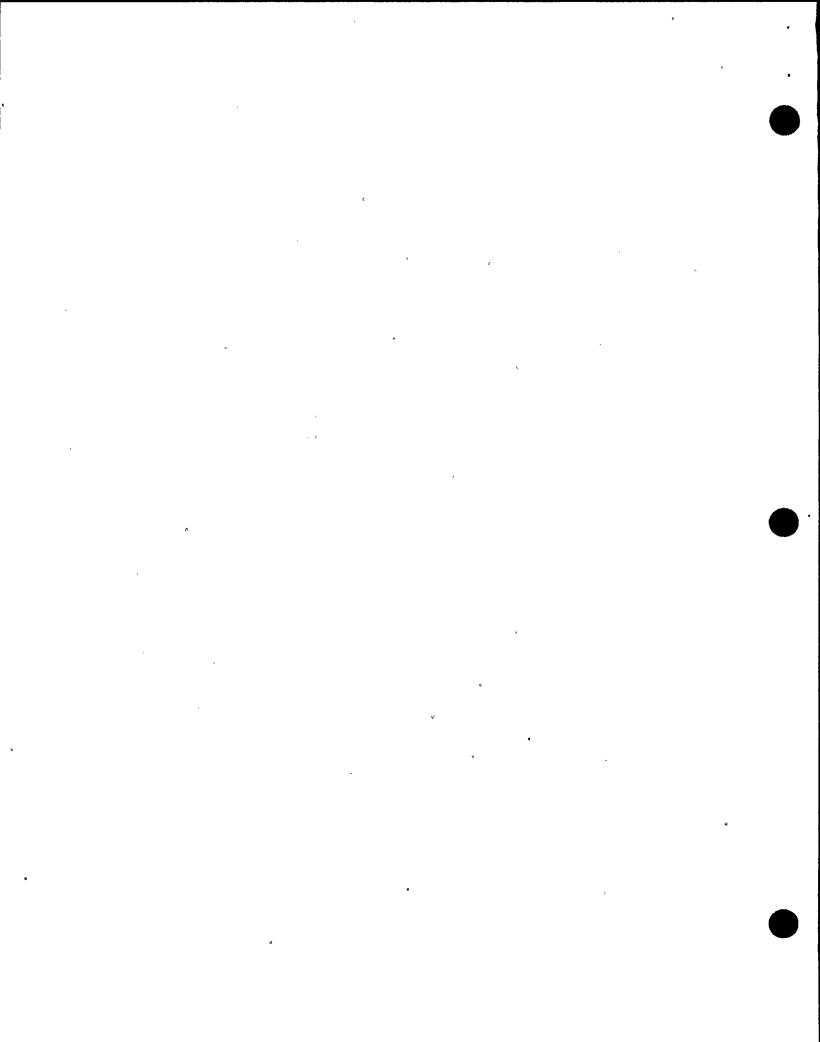
After reading the event description use a guided class discussion to determine the following without further reference to the OR:

- 1. Probable root cause.
- 2. Recommended corrective actions.
- 3. Relevance to NMP2 today.
- 4. Actions that can be taken to prevent this event happening again at NMP2.

After finalizing the generated list, compare the class's findings with those in the OR.

INSTRUCTOR NOTE: Use of OR document HE OF MP may be useful for the discussion of N/A items 1 through 4 above.

The jing added as addender line 7/1/91 Det 02-LOT-006-343-1/2-01/00-4/1 OA-1 July 1991 O1/O2-LOT-006-343-1/2-01/00-4/1



OCCURRENCE REPORT CHECKLIST

O.R. #: 89-149

DATE RECEIVED: 9/28/89

IS OCCUBRENCE REPORTABLE:

YES (NO) 10/3/89

LER NUMBER: NIA

RESPONSIBLE DEPARTMENT: CHEWISTMY

STATION SUPT. NOTIFIED: NA

DATE: #/#

IS A PART 21 REQUIRED:

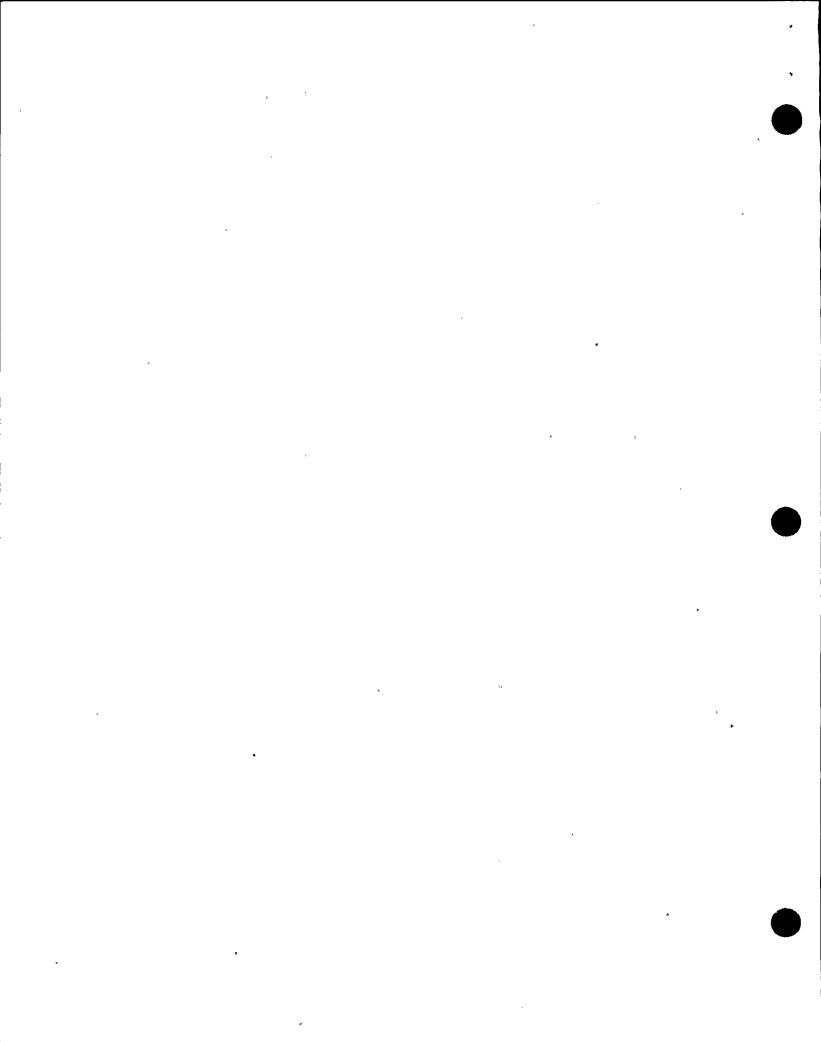
IS A SPECIAL REPORT REQUIRED: 40 FC#:

IS SORG REVIEW REQUIRED:

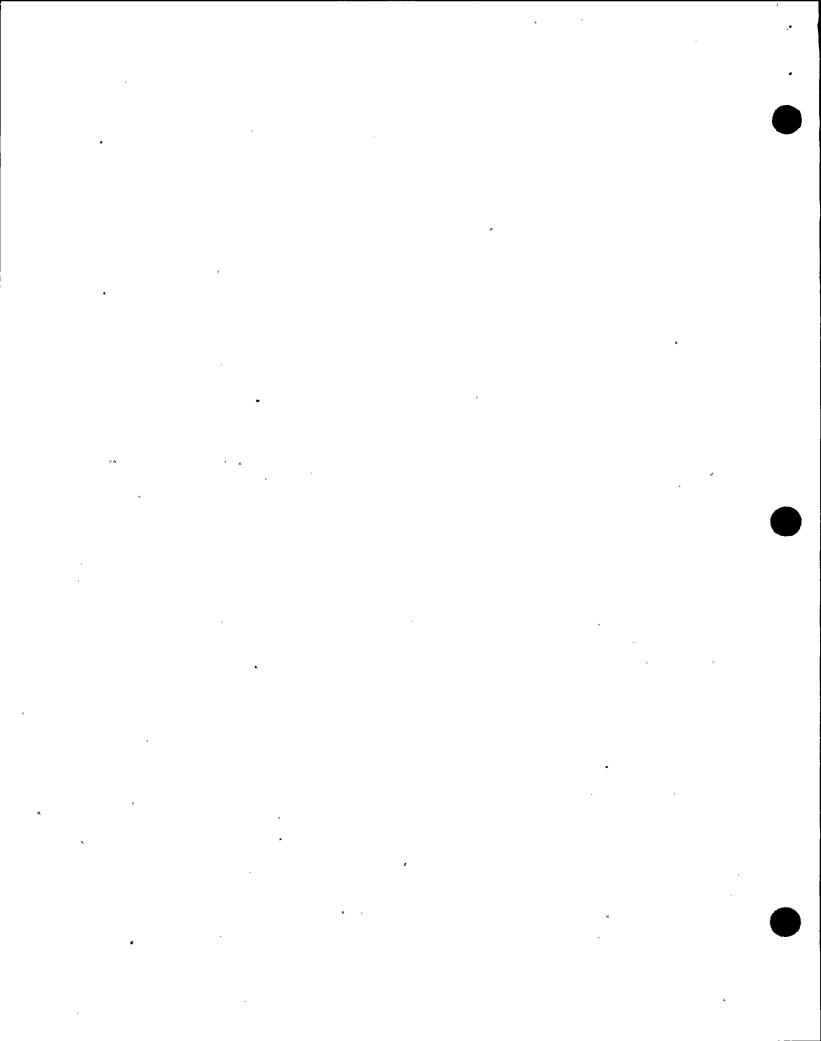
SORC DATE:

NCTS FORMS FILLED OUT: YES NO NA

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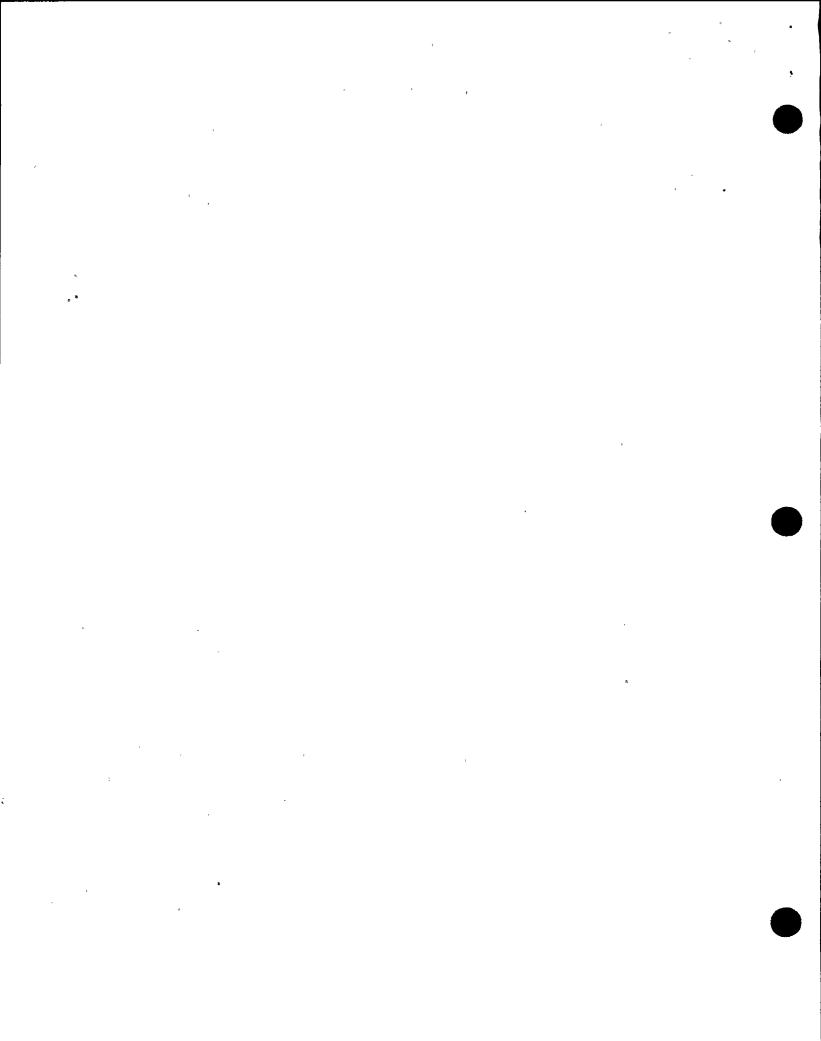


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(03+	SO DAY REPORT)		•		
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	N-65 ; 8.67	(-5) wi/gm			
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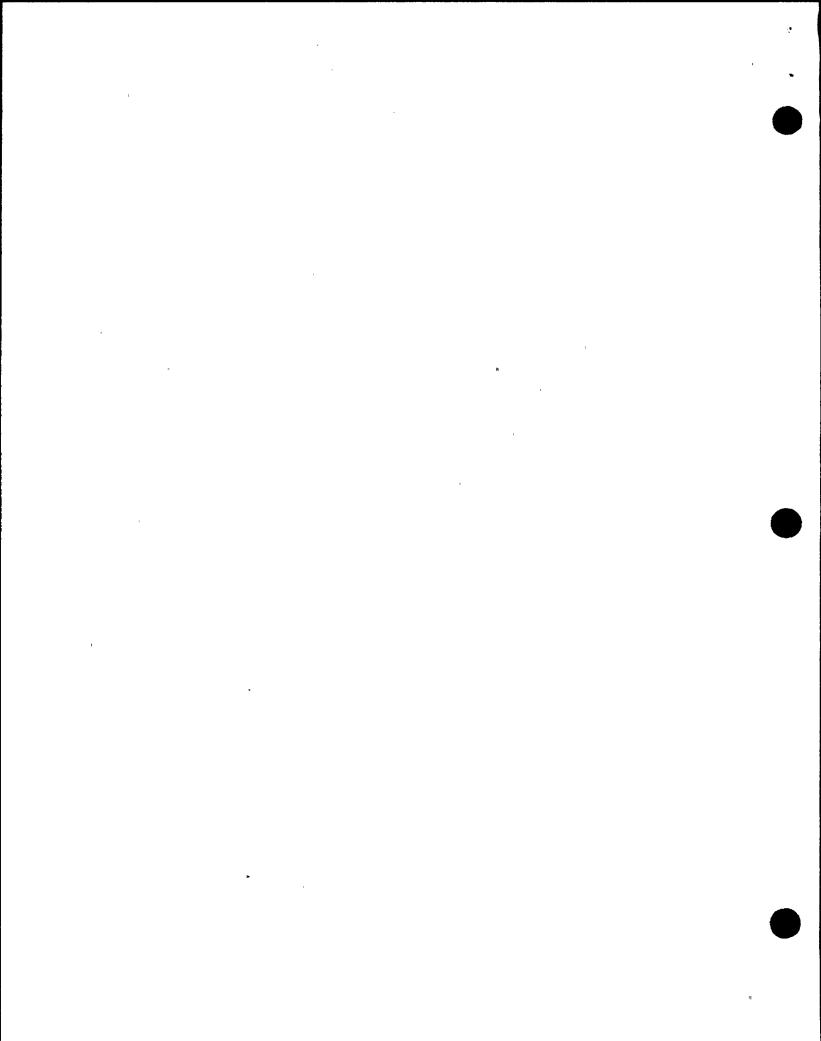


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CHNICAL SPECIFICATION R URVEILLANCE PERFORMED EVIEWED & COMPLETED BY RECTCH NUCLEAR REGULA WHI 21 EVALUATION NECESS EXT CAUSE EVAL. RECOMM ATION SUPERINTENDENT CO.	COULTEMENTS CYCLOG OF NO. SECULTATION OF NO. CHOCOLOGY OF NO. CHOCOLOGY OF NO.	CTION 3 - SE CE ON DESIGNEE LS 224 U	COND REVICENCE PORTA	SURVEILAN ONS DEPT. VIEW AND E WITH CLASS OL CATTY	CONCURRE FICATION (YOU OF DESCRIPE ON DESIGNEE TO FOLLD)	/27/8° NCE* NO) (IF NO E) A 1 NA 1	PLAIN) rund Az	1730 10/8. 12.
CHNICAL SPECIFICATION R JAVEILLANCE PERFORMED EVIEWED & COMPLETED BY RECTCH NUCLEAR REGULA FIT 21 EVALUATION NECESS FOT CAUSE EVAL. RECOMM JOO ATION SUPERINTENDENT CO.	COULTEMENTS CYCLOG OF NO. SECULTATION OF NO. CHOCOLOGY OF NO. CHOCOLOGY OF NO.	CTION 3 - SE CE ON DESIGNEE LS 224 U	COND REVICENCE PORTA	SURVEILAN ONS DEPT. VIEW AND E WITH CLASS OL CATTY	CONCURRE FICATION (YOU OF DESCRIPE ON DESIGNEE TO FOLLD)	/27/8° NCE* NO) (IF NO E) A 1 NA 1	PLAIN) rund Az	1730 10/8. 12.
CHNICAL SPECIFICATION R JAVEILLANCE PERFORMED EVIEWED & COMPLETED BY RECTCH NUCLEAR REGULA THE 21 EVALUATION NECESS OUT CAUSE EVAL. RECOMM ATION SUPERINTENDENT CO.	COULTEMENTS CYCLOG OF NO. SECULTATION OF NO. CHOCOLOGY OF NO. CHOCOLOGY OF NO.	CTION 3 - SE CE ON DESIGNEE LS 224 U	COND REVICENCE PORTA	SURVEILAN ONS DEPT. VIEW AND E WITH CLASS OL CATTY	CONCURRE FICATION (YOU OF DESCRIPE ON DESIGNEE TO FOLLD)	/27/8° NCE* NO) (IF NO E) A 1 NA 1	PLAIN) rund Az	1730 MeV 8. Mr. 129/109
CHNICAL SPECIFICATION R URVEILLANCE PERFORMED EVIEWED & COMPLETED BY RECTCH NUCLEAR REGULA WHI 21 EVALUATION NECESS EXT CAUSE EVAL. RECOMM ATION SUPERINTENDENT CO.	COULTEMENTS CYCLOG OF NO. SECULTATION OF NO. CHOCOLOGY OF NO. CHOCOLOGY OF NO.	CTION 3 - SE CE ON DESIGNEE LS 224 U	COND REVICENCE PORTA	SURVEILAN ONS DEPT. VIEW AND E WITH CLASS OL CATTY	CONCURRE FICATION (YOU OF DESCRIPE ON DESIGNEE TO FOLLD)	/27/8° NCE* NO) (IF NO E) A 1 NA 1	PLAIN) rund Az	1730 10/8. 12.
CHICAL SPECIFICATION R UNIVERLANCE PERFORMED EVIEWED & COMPLETIONBY RECTCH NUCLEAR REGULA WHY 21 EVALUATION NECESS EXT CAUSE EVAL. RECOMM	SSS-ASSS, OFF SSS-ASSS, OFF SSS-AS	CTION 3 - SE CE ON DESIGNEE LS 224 U	COND REVICENCE PORTA	SURVEILAN ONS DEPT. VIEW AND E WITH CLASS OL CATTY	CONCURRE FICATION (YOU OF DESCRIPE ON DESIGNEE TO FOLLD)	/27/8° NCE* NO) (IF NO E) A 1 NA 1	PLAIN PLAIN PLAIN DATE 2,	1730 1018. 12.

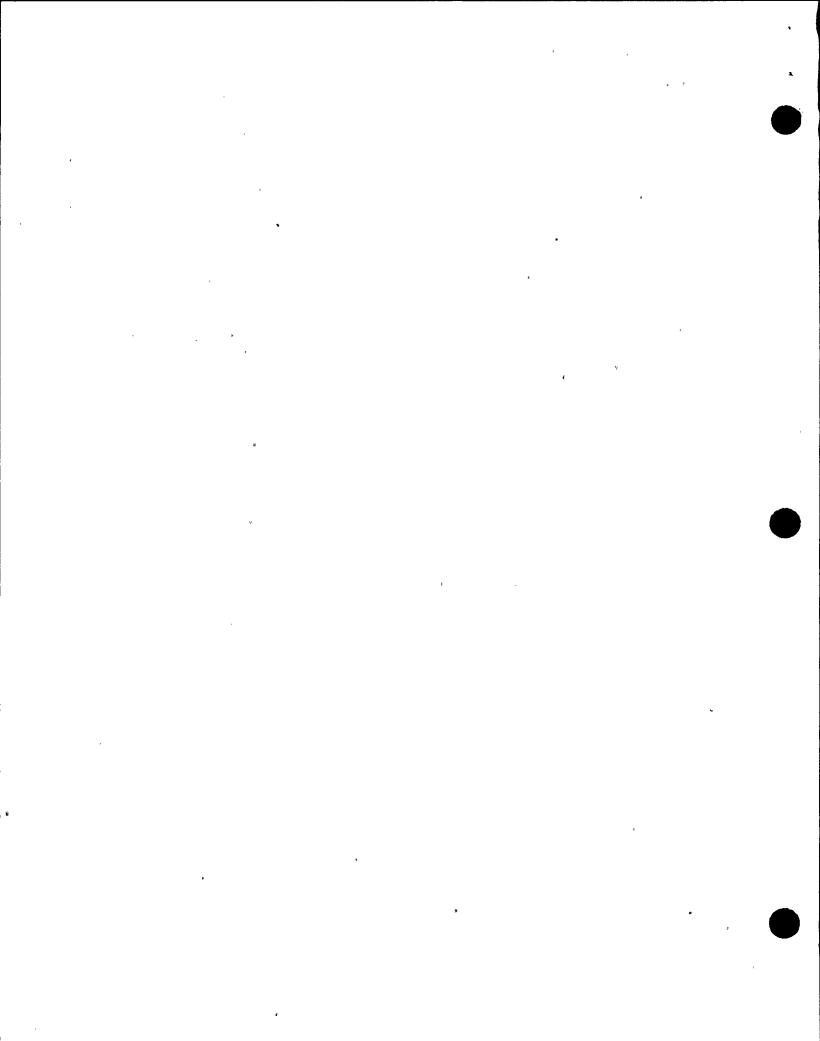
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INTERNAL CORRESPONDENCE

FORM 112-2 R 02-80

65-01-013

N Y NIAGARA N M MOHAWK

FROM

M. Dooley

R. Smith

DISTRICT Nine Mile Point Nuclear Station

DATE

October 6, 1989

FILE CODE

SUBJECT OR Close Out

OR 89-149

If you have any questions concerning this Occurrence Report, please contact Nuclear Regulatory Compliance. Thank you.

MD/1mc (0646V)

Attachment

cc: Station Superintendent Unit 1 Unit 2 (circle the applicable)

Contact

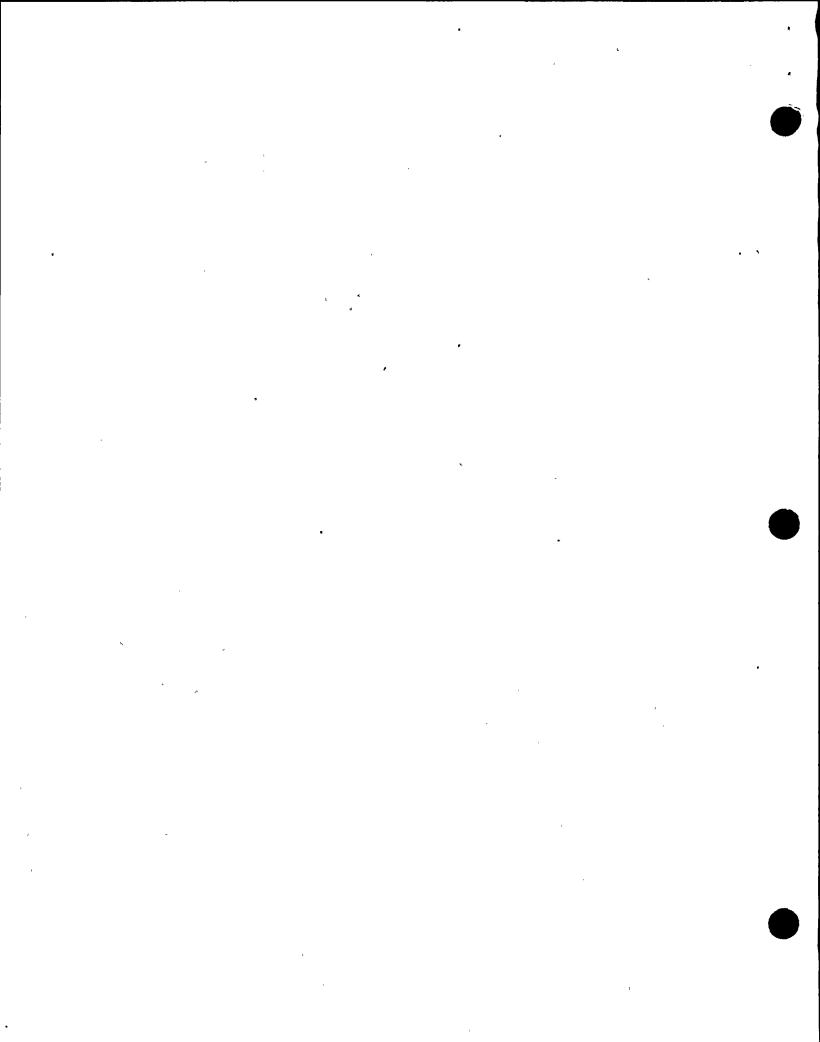
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INTERNAL CORRESPONDENCE FORM 112-2 R 02-50 55-01-013

N V NIAGARA U MOHAWK

FROM

M. Dooley De n. "

A. Ross

DISTRICT Nine Mile Point Nuclear Station

DATE Octobe

October 3, 1989

FILE CODE

SUBJECT OR Close Out

OR 89-149

If you have any questions concerning this Occurrence Report, please contact Nuclear Regulatory Compliance. Thank you.

MD/1mc (0646V)

Attachment

cc: Station Superintendent Unit 1 (Unit 2 (circle the applicable)

10/4

Mark,

It would be very difficult for me to supply a long town to concern action for this occurred Report. I. am not porthology knowledgeable with the southern of which are inest probably the root aux. of this event.

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Away Ross

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