

**NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)**

CONTROL NO: 13399

FILE: INCIDENT REPORT FY

| | | | | | | | | |
|---|----------------|-----------|-------------------------|------------------------|-------------|---------------------------------------|-----|-------|
| FROM: Indiana & Michigan Co. Bridgman, Michigan. R.W. Jurgensen | | | DATE OF DOC 11-17-75 | DATE REC'D 11-26-75 | LTR XXX. | TWX | RPT | OTHER |
| TO: J.G. Keppler | | | ORIG 1 Signed | CC 0 | OTHER | SENT AEC PDRXXX SENT LOCAL PDR XXX | | |
| CLASS | UNCLASS XXX | PROP INFO | INPUT | NO CYS REC'D 1 | | DOCKET NO: 50-315 | | |

DESCRIPTION:
Letter trans the following.....

ENCLOSURES:
Abnormal Occurrence # 75-69, on 11-26-75,
Concerning the opening torque of the ice
condenser doors exceeding the Tech. Spec.....
(1 Copy Received)

PLANT NAME: Cook # 1

FOR ACTION/INFORMATION

SAB 12-2-75

| | | | |
|-------------------------|----------------------------|-----------------------------|------------------------|
| BUTLER (L) W/ Copies | SCHWENCER (L) W/ Copies | ZIEMANN (L) W/ Copies | REGAN (E) W/ Copies |
| CLARK (L) W/ Copies | STOLZ (L) W/ Copies | DICKER (E) W/ Copies | LEAR (L) W/ Copies |
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**ACKNOWLEDGED
DO NOT REMOVE**

INTERNAL DISTRIBUTION

| | | | | |
|---|--|---|---|--|
| <u>REG FILE</u> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE | <u>TECH REVIEW</u> SCHROEDER MACCARY KNIGHT PAWLICKI SHAO **STELLO **HOUSTON **NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER | DENTON **GRIMES GAMMILL KASTNER BALLARD SPANGLER <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS | <u>LIC ASST</u> R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. RUSHBROOK (L) S. REED (E) M. SERVICE (L) S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E) | <u>A/T IND.</u> BRAITMAN SALTZMAN MELTZ <u>PLANS</u> MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON F. WILLIAMS HANAUER |
|---|--|---|---|--|

EXTERNAL DISTRIBUTION

| | | |
|-------------------------------------|--------------------------------|---|
| 1 - LOCAL PDR St. Joseph, Michigan | 1 - NATIONAL LABS | 1 - PDR-SAN/LA/NY |
| 1 - TIC (ABERNATHY) (1)(2)(10) | 1 - W. PENNINGTON, Rm E-201 GT | 1 - BROOKHAVEN NAT LAB |
| 1 - NSIC (BUCHANAN) | 1 - CONSULTANTS | 1 - G. ULRIKSON, ORNL |
| 1 - ASLB | NEWMARK/BLUME/AGBABIAN | 1 - AGMED (RUTH GUSSMAN) Rm B-127 GT |
| 1 - Newton Anderson | | 1 - J. D. RUNKLES, Rm E-201 GT |
| 16 ACRS SENT TO LIC ASST M. Service | | |
| ** SEND ONLY TEN DAY REPORTS | | |



INDIANA & MICHIGAN POWER COMPANY

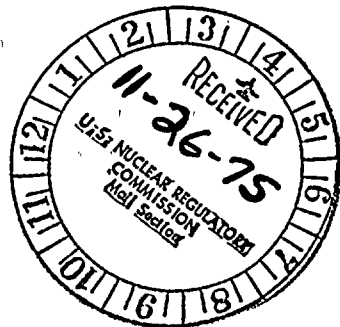
DONALD C. COOK NUCLEAR PLANT
P.O. Box 458, Bridgman, Michigan 49106

Regulatory

File Copy

November 17, 1975

Mr. J.G. Keppler, Regional Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137



Operating License DPR-58
Docket No. 50-315

Dear Mr. Keppler:

Pursuant to the requirements of Appendix A Technical Specifications and the United States Nuclear Regulatory Commission Regulatory Guide 1.16, Revision 3, Section 2.b, the following Abnormal Occurrence Report is submitted:

AO 50-315/75-69

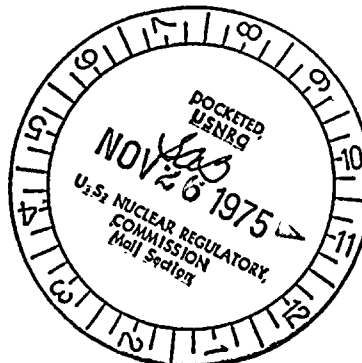
This Licensee Event Report was originally due to be submitted on November 3, 1975. On November 3, 1975, Mr. D.V. Shaller contacted NRC RO: III Resident Inspection Mr. K.R. Baker and was granted a two week extension in submitting this report.

Sincerely,

R.W. Jurgensen
Plant Manager

/bab

cc: R.S. Hunter
J.E. Dolan
G.E. Lien
R.J. Vollen BPI
R. Kilburn
R.C. Callen MPSC
K.R. Baker RO: III
P.W. Steketee, Esq.
R. Walsh, Esq.
G. Charnoff, Esq.
G. Olson
PNSRC
R.S. Keith
Director, IE (30 copies)
Director, MIPC (3 copies)



13399

NOV 19 1975

LICENSEE EVENT REPORT

CONTROL BLOCK: 1 2 3 4 5 6

(PLEASE PRINT ALL REQUIRED INFORMATION)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| LICENSEE NAME | | | | | | | | | | | | | | LICENSE NUMBER | | | | | | | | | | | | | | LICENSE TYPE | | | | | | | | | | EVENT TYPE | | | | | | | | | | | |
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| CATEGORY | | | | | | | | | | | | | | REPORT TYPE | | | | REPORT SOURCE | | | | DOCKET NUMBER | | | | | | | | | | | | | | EVENT DATE | | | | | | | | | | REPORT DATE | | | |
| 01 CONT P0 | | | | | | | | | | | | | | L | | | | L | | | | 050-0315 | | | | | | | | | | | | | | 100375 | | | | | | | | | | 111775 | | | |

EVENT DESCRIPTION

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| 02 WITH THE UNIT IN MODE 3, THE OPENING TORQUE OF THE ICE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 CONDENSER DOORS WAS CHECKED AS A PART OF TECHNICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 SPECIFICATION. SURVEILLANCE 4.6.5.3.1 b.1. THE MAXIMUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 ALLOWABLE INITIAL OPENING TORQUE OF ≤ 675 INCH POUNDS WAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 EXCEEDED ON 10 OF THE 48 DOORS (AO-50-315/75-69) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| SYSTEM CODE | | | | | | | | | | CAUSE CODE | | | | | | | | | | COMPONENT CODE | | | | | | | | | | PRIME COMPONENT SUPPLIER | | | | | | | | | | COMPONENT MANUFACTURER | | | | | | | | | | VIOLATION | | | | | | | | | |
| 07 SH | | | | | | | | | | B | | | | | | | | | | ZZZZZZZZ | | | | | | | | | | N | | | | | | | | | | W11210 | | | | | | | | | | N | | | | | | | | | |

CAUSE DESCRIPTION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 08 ICE BUILD-UP AT THE BOTTOM SEAL-DOOR INTERFACE OF THE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 09 LOWER INLET DOORS INCREASED THE OPENING FORCE REQUIRED TO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 INITIALLY OPEN THE DOORS. SEE ATTACHED SUPPLEMENT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| FACILITY STATUS | | | | | | | | | | % POWER | | | | | | | | | | OTHER STATUS | | | | | | | | | | METHOD OF DISCOVERY | | | | | | | | | | DISCOVERY DESCRIPTION | | | | | | | | | |
| 11 D | | | | | | | | | | 000 | | | | | | | | | | NA | | | | | | | | | | B | | | | | | | | | | SURVEILLANCE TEST | | | | | | | | | |

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| FORM OF ACTIVITY RELEASED | | | | | | | | | | CONTENT OF RELEASE | | | | | | | | | | AMOUNT OF ACTIVITY | | | | | | | | | | LOCATION OF RELEASE | | | | | | | | | |
| 12 Z | | | | | | | | | | Z | | | | | | | | | | NA | | | | | | | | | | NA | | | | | | | | | |

PERSONNEL EXPOSURES

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| NUMBER | | | | | | | | | | TYPE | | | | | | | | | | DESCRIPTION | | | | | | | | | |
| 13 000 | | | | | | | | | | Z | | | | | | | | | | NA | | | | | | | | | |

PERSONNEL INJURIES

| | | | | | | | | | | | | | | | | | | | |
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| NUMBER | | | | | | | | | | DESCRIPTION | | | | | | | | | |
| 14 000 | | | | | | | | | | NA | | | | | | | | | |

OFFSITE CONSEQUENCES

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 15 NONE- 38 LOWER INLET DOORS WERE WITHIN SPECIFICATIONS. SEE SUPPLEMENT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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LOSS OR DAMAGE TO FACILITY

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| TYPE | | | | | | | | | | DESCRIPTION | | | | | | | | | |
| 16 Z | | | | | | | | | | NA | | | | | | | | | |

PUBLICITY

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 17 NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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ADDITIONAL FACTORS

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| 18 SEE ATTACHED SUPPLEMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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NAME: T. F. PLUNKETT

PHONE: 465-5901(331)

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2AW

(12-12)

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SUPPLEMENT TO CAUSE DESCRIPTION

Initially upon finding the condition, the doors were manually opened and the ice buildup was removed. The opening torque was rechecked and all doors met the Technical Specification limit.

Subsequently, during a plant outage from October 12, 1975, through October 14, 1975, the problem of ice buildup at the bottom seal-door interface was investigated by Indiana & Michigan Power Company, American Electric Power Service Corporation and Westinghouse personnel.

It was determined that the ice is being formed from condensation. Condensation was found occurring outside the door at the bottom door frame surface in twenty of the twenty-four bays. The condensation is created from humidity in the lower containment volume warm air, which comes in contact with the cold metal door frame surface, thereby cooling the air below the dew point.

The cause has been postulated to be:

1. Insulation under the door frame had frozen due to water in seepage, thereby losing insulation qualities and in ten cases causing an ice bridge between the insulation and lower inlet door. The insulation became soaked with moisture and then froze. We believe this problem was accentuated during the summer months due to higher lake water temperature resulting in a higher containment ambient temperature.
2. Metal angle of the door frame was operating at a colder temperature thereby allowing condensation buildup.
3. Lower ice condenser and floor temperature during this operating period.

Corrections to the above situations are:

1. The floor cooling system valve VRV-20 has been adjusted to raise the floor temperature to approximately $\pm 15^{\circ}\text{F}$.
2. Insulation has been replaced and caulking added to prevent water leakage.

It was also observed that by placing insulating material on the lower inlet door metal frame strip that the condensation was retarded.

On November 1, 1975, all lower inlet doors were inspected with the Unit in Mode 2. All doors were found to open freely, but condensation was observed on most of the door seals with some minor ice buildup noted on a few of the doors. The rubber insulating strips are presently being added to all the lower inlet door metal frames and a program of periodic inspections of the lower inlet doors with respect to ice accumulation and opening force has been initiated.

SUPPLEMENT TO OFFSITE CONSEQUENCES

The remaining ten doors could still be opened.

