

Initial Telephone  
Report Date: October 8, 1975

Date of  
Occurrence: 10/8/75

Initial Written  
Report Date: October 8, 1975

Time of  
Occurrence: 1330

OYSTER CREEK NUCLEAR GENERATING STATION  
FORKED RIVER, NEW JERSEY 08731

Abnormal Occurrence  
Report No. 50-219/75/ 27

IDENTIFICATION  
OF OCCURRENCE: Violation of the Technical Specifications, paragraph 3.1.1.D.3,  
Low Reactor Pressure Core Spray Valve Permissive Pressure Switches RE  
17B and D were found to trip at pressures less than the minimum required  
value of 285 psig. This event is considered to be an abnormal  
occurrence as defined in the Technical Specifications, paragraphs  
1.15B and D.

CONDITIONS PRIOR  
TO OCCURRENCE:

|               |                    |               |                         |
|---------------|--------------------|---------------|-------------------------|
| <u>x</u>      | Steady State Power | <u>      </u> | Routine Shutdown        |
| <u>..</u>     | Hot Standby        | <u>      </u> | Operation               |
| <u>      </u> | Cold Shutdown      | <u>      </u> | Load Changes During     |
| <u>      </u> | Refueling Shutdown | <u>      </u> | Routine Power Operation |
| <u>      </u> | Routine Startup    | <u>      </u> | Other (Specify)         |
| <u>      </u> | Operation          | <u>      </u> |                         |

Plant Parameters:

Power (thermal) - 582.6 Mwt  
Power (electrical) - 155 Mwe  
Recirc flow -  $6.0 \times 10^4$   
Feed flow -  $1.77 \times 10^6$  lb./hr.  
Stack gas - 3090 uci/sec.

10-20-75

DESCRIPTION  
OF OCCURRENCE:

On Wednesday, October 8, 1975 at approximately 1130 while performing  
quarterly surveillance testing on the four (4) Low Reactor Pressure  
Core Spray Valve Permissive Pressure Switches, it was discovered  
that RE 17B and D tripped at 275 psig and 277 psig, respectively.  
These values are less than the Technical Specification limit of 285  
psig. Pressure switches RE 17B and D were immediately recalibrated.

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REGION

The "as found" and "as left" switch settings were:

|       | <u>"As Found" Settings</u> | <u>"As Left" Settings</u> |
|-------|----------------------------|---------------------------|
| RE17A | 285 psig                   | 285 psig                  |
| RE17B | 275 psig                   | 287 psig                  |
| RE17C | 285 psig                   | 285 psig                  |
| RE17D | 277 psig                   | 289 psig                  |

APPARENT CAUSE  
OF OCCURRENCE:

☐ Design  
☐ Manufacture  
☐ Installation/  
Construction  
☐ Operator

☐ Procedure  
☐ Unusual Service Condition  
☐ Inc. Environmental  
Component Failure  
☒ Other (Specify)

The cause of this occurrence is switch repeatability.

ANALYSIS OF  
OCCURRENCE:

The Core Spray System Parallel Isolation Valves open when a low-low reactor water level and/or high drywell pressure condition exists in addition to a low reactor pressure condition (285 psig). The four (4) Low Reactor Pressure Core Spray Valve Permissive Pressure Switches sense the low reactor pressure condition and provide signals to the valve opening logic. Two (2) of these switches (RE 17A and B) are associated with Core Spray System 1 and the other two (2) switches (RE 17C and D) are associated with Core Spray System 2. A trip of one switch in each core spray system is required to effect parallel isolation valve opening in that system. A review of the "as found" switch settings indicates that parallel isolation valves in both core spray systems would have opened at reactor pressures 285 psig had a reactor low-low water level and/or high drywell pressure condition existed concurrently. The safety significance of this event is considered to be the loss of switch redundancy.

CORRECTIVE ACTION:

Immediate corrective action involved the recalibration  
of pressure switches RE 17B and D.

FAILURE DATA:

Manufacturer data pertinent to these switches are as  
follows:

|              |                          |
|--------------|--------------------------|
| Manufacture: | Barksdale                |
| Type:        | Pressure Actuated Switch |
| Range:       | 50-1200 psig             |
| Switch No.:  | B2T-A12SS (RE 17B)       |
|              | B2T-A12SS (RE 17D)       |

Previous Abnormal Occurrences involving these switches:

(1) A.O. Report No. 50-219/75/12

Prepared by:

*T. E. Quintenz*  
T. E. Quintenz

Date: October 8, 1975

TO:

James P. O'Reilly  
Directorate of Regulatory Operations  
Region I  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

FROM:

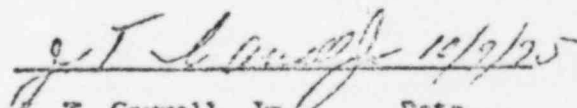
Jersey Central Power & Light Company  
Oyster Creek Nuclear Generating Station Docket #50-219  
Forked River, New Jersey 08731

SUBJECT:

Abnormal Occurrence Report No. 50-219/75/ 27

The following is a preliminary report being  
submitted in compliance with the Technical  
Specifications, paragraph 6.6.2.

Preliminary Approval:

  
J. T. Carroll, Jr. Date

CC: Mr. A. Gianbusso

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Occurrence: 10/8/75

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OYSTER CREEK NUCLEAR GENERATING STATION  
FORKED RIVER, NEW JERSEY 08732

Abnormal Occurrence  
Report No. 50-219/75, ET

IDENTIFICATION  
OF OCCURRENCE:

Violation of the Technical Specifications, paragraph 3.1.1.D.3, Low Reactor Pressure Core Spray Valve Permissive Pressure Switches RE 17B and D were found to trip at pressures less than the minimum required value of 285 psig. This event is considered to be an abnormal occurrence as defined in the Technical Specifications, paragraphs 1.15B and C.

CONDITIONS PRIOR  
TO OCCURRENCE:

☒ Steady State Power  
☐ Hot Standby  
☐ Cold Shutdown  
☐ Refueling Shutdown  
☐ Routine Startup  
☐ Operation

☐ Routine Shutdown  
☐ Operation  
☐ Load Changes During  
☐ Routine Power Operation  
☐ Other (Specify) \_\_\_\_\_

Plant Parameters:

Power (thermal) - 592.6 Mwt  
Power (electrical) - 155 Mwe  
Recirc flow -  $6.0 \times 10^4$   
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Stack gas - 3090 uci/sec.

DESCRIPTION  
OF OCCURRENCE:

On Wednesday, October 8, 1975 at approximately 1130 while performing quarterly surveillance testing on the four (4) Low Reactor Pressure Core Spray Valve Permissive Pressure Switches, it was discovered that RE 17B and D tripped at 275 psig and 277 psig, respectively. These values are less than the Technical Specification limit of 285 psig. Pressure switches RE 17B and D were immediately recalibrated.

The "as Found" and "as left" switch settings were:

|       | <u>"As Found" Settings</u> | <u>"As Left" Settings</u> |
|-------|----------------------------|---------------------------|
| RE17A | 285 psig                   | 285 psig                  |
| RE17B | 275 psig                   | 287 psig                  |
| RE17C | 283 psig                   | 265 psig                  |
| RE17D | 277 psig                   | 289 psig                  |

CAUSE  
 OCCURRENCE:

|                      |                                   |
|----------------------|-----------------------------------|
| <u>Design</u>        | <u>Procedure</u>                  |
| <u>Manufacture</u>   | <u>Unusual Service Conditions</u> |
| <u>Installation/</u> | <u>Ext. Environmental</u>         |
| <u>Construction</u>  | <u>Component Failure</u>          |
| <u>Operation</u>     | <u>X Other (Specify)</u>          |

The cause of this occurrence is switch repeatability.

SIS OF  
 PRESENCE:

The Core Spray System Parallel Isolation Valves open when a low-low reactor water level and/or high drywell pressure condition exists in addition to a low reactor pressure condition (285 psig). The four (4) Low Reactor Pressure Core Spray Valve Permissive Pressure Switches sense the low reactor pressure condition and provide signals to the valve opening logic. Two (2) of these switches (RE 17A and B) are associated with Core Spray System 1 and the other two (2) switches (RE 17C and D) are associated with Core Spray System 2. A trip of one switch in each core spray system is required to effect parallel isolation valve opening in that system. A review of the "as found" switch settings indicates that parallel isolation valves in both core spray systems would have opened at reactor pressures 285 psig had a reactor low-low water level and/or high drywell pressure condition existed concurrently. The safety significance of this event is considered to be the loss of switch redundancy.

IMMEDIATE ACTION:

Immediate corrective action involved the recalibration of pressure switches RE 17B and D.

REFERENCE DATA:

Manufacturer data pertinent to these switches are as follows:

Manufacturer:  
Type:  
Range:  
Switch No.:

Barco-Saba  
Pressure Actuated Switch  
SP-1300 psig  
BIT-ALPS (RE 17B)  
BIT-ALPS (RE 17D)

Previous Abnormal Occurrences Involving these switches:  
(1) A.G. Report No. 50-219/75/12

Red by:

*T. E. Quintenz*  
T. E. Quintenz

Date: October 8, 1975