

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
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 RECIP. NAME: REGION 2, Atlanta, Office of the Director

SUBJECT: LER 80-026/03L-0: on 800811, HPSW pump B declared inoperable & removed from svc when water discovered leaking from cooler casing. Caused by erosion created by constant water flow. Cooler & housing replaced. Solenoid valves added.

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 TITLE: Incident Reports

NOTES: M Cunningham: all amends to FSAR & changes to Tech Specs. 05000269

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	GEOSCIENCES 26	1	1	HUM FACT ENG 27	1	1
	HYD/GEO BR 28	1	1	I&C SYS BR 29	1	1
	I&E 05	2	2	JORDAN, E./IE	1	1
	LIC GUID BR 30	1	1	LIC QUAL BR 31	1	1
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	MPA	3	3	NRC PDR 02	1	1
	OP EX EVAL BR34	3	3	OR ASSESS BR 35	1	1
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DUKE POWER COMPANY
OCONEE NUCLEAR STATION

Report Number: RO-269/80-26

Report Date: September 10, 1980

Occurrence Date: August 11, 1980

Facility: Oconee Nuclear Station, Seneca, South Carolina

Identification of Occurrence: "B" High Pressure Service Water Pump Out of Service
Due to Motor Cooler Leak

Conditions Prior to Occurrence: Oconee 1 100% Full Power
Oconee 2 59% Full Power
Oconee 3 100% Full Power

Description of Occurrence:

At 0711 hours on August 11, 1980, during a routine inspection of the Turbine Building basement, the "B" High Pressure Service Water (HPSW) pump was taken out of service and declared inoperable when water was discovered leaking from the cooler casing. This constitutes operation in a degraded mode per Technical Specification 3.17.2.1, and is thus reportable pursuant to Technical Specification 6.6.2.1.b(2).

Apparent Cause of Occurrence:

The cause of the leak is thought to be due to tube erosion which has degraded the reliability of these coils. The HPSW pump is rarely run although the cooler constantly has lake water circulating through its coils. This allows continuous erosion of the tubes.

Analysis of Occurrence:

Two redundant pumps are provided to supply HPSW flow for the fire suppression water system. During the period that "B" HPSW pump was out of service, "A" HPSW pump was operable and capable of satisfying the fire protection safety requirements of the HPSW system. Also, after the initial investigation, it was determined that the leaks were not of a magnitude which would have forced water into the motor windings. Therefore, the leak did not adversely affect the integrity and operability of the pump motor. Technical Specification 3.17.2.1 permits one HPSW pump to be removed from service for a time period not greater than eight days, provided the redundant pump is operable. The "B" HPSW pump was returned to service 4 days and 5 hours after the leak was discovered, well within the 7 day limit permitted. However, the removal of the pump from service constituted operation in a degraded mode permitted by a limiting condition for operation, and therefore must be reported pursuant to Technical Specification 6.6.2.1.b(2). This incident was of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The repair consisted of removing the old cooler and housing and replacing them with a new cooler and a new housing. While the piping was removed to change the cooler, a solenoid valve was installed in the supply line to the cooler.

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: _____ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | S | C | N | E | E | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
 7 8 9 14 15 23 28 30 37 40 49 54 59 64

CONT
 0 1 | REPORT SOURCE | L | 8 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 0 | 8 | 1 | 1 | 8 | 0 | 8 | 0 | 9 | 1 | 0 | 8 | 0 | 9
 7 8 9 14 15 23 28 30 37 40 49 54 59 64

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | The "B" HPSW pump was declared inoperable and removed from service when water
 0 3 | was discovered leaking from the cooler casing. The pump was returned to
 0 4 | service well within the time permitted by Technical Specification 3.17.2.1 and
 0 5 | redundant pump A was operable during that period. Also, the leakage would
 0 6 | not have adversely affected pump operation. Thus, this incident was of no
 0 7 | significance with respect to safe operation, and the health and safety of the
 0 8 | public were not affected.

0 9 | SYSTEM CCDE | W | A | 11 | CAUSE CODE | E | 12 | CAUSE SUBCODE | 0 | 13 | COMPONENT CODE | M | O | T | O | R | X | 14 | COMP. SUBCODE | Z | 15 | VALVE SUBCODE | Z | 16
 7 8 9 10 11 12 13 14 15 16 17 18 19 20
 17 | LER/RO REPORT NUMBER | 8 | 0 | 21 | SEQUENTIAL REPORT NO. | 0 | 2 | 6 | 24 | OCCURRENCE CODE | 0 | 3 | 28 | REPORT TYPE | L | 30 | REVISION NO. | 0 | 32
 21 22 23 24 25 26 27 28 29 30 31 32
 ACTION TAKEN | A | 18 | Z | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | 37 | ATTACHMENT SUBMITTED | Y | 41 | NPRO-4 FORM SUB. | Y | 42 | PRIME COMP. SUPPLIER | L | 43 | COMPONENT MANUFACTURER | W | 1 | 2 | 0 | 26
 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The motor cooler tube leaks were the result of erosion created by the constant
 1 1 | flow of lake water through the tubes. The cooler and housing were replaced with
 1 2 | a new cooler and a new housing. In order for flow to be admitted only
 1 3 | during pump operation, solenoid valves were added to the cooling water supply
 1 4 | lines.

1 5 | FACILITY STATUS | E | 28 | % POWER | 1 | 0 | 0 | 29 | OTHER STATUS | NA | 30 | METHOD OF DISCOVERY | B | 31 | DISCOVERY DESCRIPTION | Routine Turbine Building Inspection | 32
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 6 | ACTIVITY CONTENT | Z | 33 | Z | 34 | AMOUNT OF ACTIVITY | NA | 35 | LOCATION OF RELEASE | NA | 36
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 7 | PERSONNEL EXPOSURES | 0 | 0 | 0 | 37 | Z | 38 | DESCRIPTION | NA | 39
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 8 | PERSONNEL INJURIES | 0 | 0 | 0 | 40 | DESCRIPTION | NA | 41
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 1 9 | LOSS OF OR DAMAGE TO FACILITY | Z | 42 | DESCRIPTION | NA | 43
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
 2 0 | PUBLICITY | N | 44 | DESCRIPTION | NA | 45
 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

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