# LICENSEE EVENT REPORT

/1/5/ /1/6/ /1/7/ /1/8/ /1/9/	/ suspected that this leak may have been caused by sulfate reducing bacteria with-/  / in the service water piping. A study is being performed at this time to deter-/  / mine the actual failure mechanism. The affected piping was removed and a new /  / section was welded into place in the Service Water System. /  FACILITY  STATUS %POWER OTHER STATUS DISCOVERY DISCOVERY DESCRIPTION (32)  /E/ (28) /1/0/0/ (29) / NA / (30) /A/ (31) / Operator Observation /  ACTIVITY CONTENT  RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)  /Z/ (33) /Z/ (34) / NA / N
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/1/0/	/ The actual cause of the pinhole leak is unknown at this time. However, it is /
	AUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
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/0/9/	/W/A/ (11) /E/ (12) /D/ (13) /P/I/P/E/X/X/ (14) /A/ (15) /Z/ (16) SEQUENTIAL OCCURRENCE REPORT REVISION LER/RO EVENT YEAR REPORT NO. CODE TYPE NO.
10.10.1	SYSTEM CAUSE CAUSE COMP. VALVE CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE
/0/8/	/ on April 21, 1981 to this pipe which was reported via LER 81-024.
10/ /	/ T.S. 3.7.4.1 and reportable pursuant to T.S. 6.9.1.9.b. A similar event occurred/
10/6/	/ health and safety of the general public were not affected. This is contrary to /
/0/5/	/ to operable status within 72 hours as required by the Action Statement, the /
10/4/	/ pinnole leak in a supply line (3"-WS-74-151-Q3). Since the header was restored /
/0/3/	/ Water Supply Header to the Unit 1 and 2 charging pumps was isolated to repair a /
And the second second	/ On May 27, 1981, with both units in Mode 1 at 100 percent power, the "B" Service /
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Virginia Electric and Power Company North Anna Power Station, Unit 1 Docket No. 50-338 Report No. LER 81-046/03L-0

# Description of Event

On May 27, 1981, with both units in Mode 1 at 100 percent power, the "B" Service Water Supply Header to the Unit 1 and Unit 2 Charging Pumps was isolated to repair a pinhole leak in the line. The "A" Service Water Supply Header to the charging remained inservice while the "B" header was being repaired.

Attachment: Page 1 of 1

# Probable Consequences of Occurrence

Since service water was supplied to the charging pumps by the "A" header and since the "B" header was restored to operable status within 72 hours as required by the Action Statement, the health and safety of the general public were not affected

### Cause of Event

The actual cause of the pin ole leak is unknown at this time. However, it is suspected that this leak may have been caused by sulfate reducing bacteria within the service water piping. A study is being performed at this time to determine the actual failure mechanism.

#### Immediate Corrective Action

The affected piping was cut out and a new section was welded into place in the service water system using approved procedures. The replaced welds were liquid penetrant and hydrostatically tested prior to returning the header to service.

#### Scheduled Corrective Action

There is no scheduled corrective action at this time. However, upon completion of a study being performed to determine the actual mechanism causing corrosion of the service water piping, the appropriate action will be taken.

## Actions Taken to Prevent Reccurrence

No action is taken to prevent recurrence at this time.

#### Generic Implications

This failure may be generic to both units at North Anna Power Station. A study by Lehigh University concerning the corrosion of piping and components at North Anna subjected to service and lake water is being performed at this time. Once this analysis is complete, plans will be formulated to arrest further legradation of system piping and restore damaged material to design specifications. Meanwhile, it is felt that no gross failures will occur since failures of this nature produce small pinhole leaks which would be randomly located in the piping.

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