	U.S. NUCLEAR REGULATORY COMMISSION
	LICENSEE EVENT REPORT CONTROL BLOCK / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)
/0/1/	$\frac{\frac{1}{\sqrt{A/N/A/S/17}}(2)}{\text{LICENSEE CODE}} \frac{\frac{1}{0}/0/-\frac{1}{0}/0/0/0/0}{\frac{1}{0}/0/0/0/0}(3)}{\frac{1}{\sqrt{4}/1/1/1/1}(4)} \frac{\frac{1}{1}}{\sqrt{6}} (5)$
/0/1/	$\frac{\text{REPORT}}{\text{SOURCE}} \frac{/L}{/} (6) \frac{/0/5/0/0/3/3/8}{\text{DOCKET NUMBER}} (7) \frac{/0/9/1/7/8/2}{\text{EVENT DATE}} (8) \frac{/1/0/1/2/8/2}{\text{REPORT DATE}} (9)$
	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
/0/2/	/ On September 17, 1982, with Unit 1 in Mode 6, a Cold Leg Injection Line Check /
/0/3/	/ Valve was found to have one badly corroded bolt. A total of 5 bolts appeared to /
/0/4/	/ be corroded. This 6 inch Velan Check Valve has 12 carbon steel closure studs. /
/0/5/	/ Many studs would have to be totally failed to jeopardize the integrity of the Re-/
/0/6/	/ actor Coolant System. Only one stud was badly corroded; therefore, the health and/
/0/7/	/ safety of the general public were not affected. This is reportable pursuant to /
/0/8/	/ T.S. 6.9.1.9.d. /
	CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE
/0/9/	$\frac{/S/F}{(11)} \frac{/X}{(12)} \frac{/X}{(13)} \frac{/V/A/L/V/E/X}{OCCURRENCE} (14) \frac{/C}{(15)} \frac{/A}{(16)}$ LER/RO EVENT YEAR REPORT NO. CODE TYPE NO.
(17)	REPORT NUMBER <u>/8/2</u> / /-/ /0/6/2/ /~/ /0/3/ /L/ /-/ /0/
ACTION TAKEN	FUTURE EFFECT SHUTDOWN ATTACHMENT NPRD-4 PRIME COMPONENT ACTION ON PLANT METHOD HOURS SUBMITTED FORM SUBPLIER MANUFACTURER
/A/ (1	8) $/Z/(19)$ $/Z/(20)$ $/Z/(21)$ $/0/0/0/(22)$ $/Y/(23)$ $/N/(24)$ $/N/(25)$ $/V/0/8/5/(26)$
-	
11/0/	The Check Value (1.87.92) had a small lash at the last start and the second start of t
/1/0/	/ horis soid from the primery socient corrected the early to bonnet gasket. The /
/1/2/	/ stude were replaced when the value was disassembled to replace the baract socket /
/1/2/	/ study were replaced when the valve was disassembled to replace the bonnet gasket./
11/4/	·/
<u>/////</u> F	ACILITY METHOD OF
/1/5/	STATUS% POWEROTHER STATUS (30)DISCOVERYDISCOVERY DESCRIPTION (32)/H/ (28)/0/0/0/ (29)/ NA/ (30)/A/ (31)/ Mechanic Observation /
	ACTIVITY CONTENT
/1/6/	/2/(33) /Z/(34) / NA // NA // NA //
	PERSONNEL EXPOSURES
/1/7/	/0/0/0/ (37) /Z/ (38) / NA /
	PERSONNEL INJURIES
/1/8/	/0/0/0/ (40) / NA /
	LOSS OF OR DAMAGE TO FACILITY (43)
/1/9/	TYPE DESCRIPTION (12)
1.2121	PUBLICITY
/2/0/	ISSUED DESCRIPTION (45) NRC USE ONLY /N/ (44) / NA ////////////////////////////////////
	NAME OF PREPARER W. R. CARTWRIGHT PHONE (703) 894-5151
82101 PDR A	90270 821012 DOCK 05000338
S	PDR

Virginia Electric and Power Company North Anna Power Station, Unit No. 1 Docket No. 50-338 Attachment to LER 82-062/03L-0

Description of Event

On September 17, 1982, with Unit 1 in Mode 6, a Cold Leg Injection Line Check Valve was found to have one badly corroded and four slightly corroded closure studs. The corrosion was discovered during maintenance to repair a leak at the body to bonnet gasket on this valve.

Probable Consequences of Occurrence

The valve is a 6 inch Velan Swing Check with 12-1.25 inch carbon steel closure studs. The total force on the bonnet at the maximum system pressure is less than the yield strength of one closure stud. Five partially corroded studs could not jeopardize the integrity of the Reactor Coolant System; therefore, the health and safety of the general public were not affected.

Cause of Event.

The check valve had a small leak at the body to bonnet gasket. The borated reactor coolant water corroded the carbon steel studs.

Immediate Corrective Action

All of the closure studs were replaced. The check valves at the Reactor Coolant Loops in the other 6 inch injection lines were inspected for possible stud damage.

Scheduled Corrective Action

The 6 inch check valves in the injection lines near the Reactor Coolant Loops will be inspected every refueling outage until the maintenance history indicates the inspection at this frequency is no longer necessary.

Action Taken To Prevent Recurrence

No further action is required.

Generic Implications

Corrosion of carbon steel studs and bolts on reactor coolant components is a generic problem. Any time carbon steel is used on a system containing boric acid and leakage occurs, degradation will ensue.