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VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
P. O. BOX 402
MINERAL, VIRGINIA 23117

August 29, 1980

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Serial No. N-80-080
NO/DWS:mmf
Docket No. 50-338, 50-339
License No. NPF-4, NPF-7

Dear Mr. O'Reilly:

Pursuant to North Anna Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for North Anna Unit Nos. 1 & 2.

Report No.	Applicable Technical Specifications
LER 80-071/01T-0	T.S. 6.9.1.8.i and IE Bulletin 79-01B Action Item 6

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear Safety and Operating Committee.

Very Truly yours,

W. R. Cartwright
Station Manager

Enclosures (3 copies)

cc: Mr. Victor Stello, Director (30 copies)
Office of Inspection and Enforcement

Mr. Norman M. Haller, Director (3 copies)
Office of Management and Program Analysis

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

/0/1/ /V/A/N/A/S/1/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1 (4) / / / (5)

LICENSEE CODE — LICENSE NUMBER — LICENSE TYPE — CAT

/0/1/ REPORT SOURCE /L/ (6) /0/5/0/0/0/3/3/8/ (7) /0/8/1/8/8/0/ (8) /0/8/2/9/8/0/ (9)

DOCKET NUMBER — EVENT DATE — REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / The continuing review and evaluation of Class IE equipment pursuant to NuReg- /

/0/3/ / 0588, has determined that available information is insufficient to demonstrate /

/0/4/ / environmental qualification of signal processors LIT-RS-151A, B and LIT-RS- /

/0/5/ / 251A, B (Inside recirc. spray sump level). These processors were previously /

/0/6/ / reported to be qualified. The signal processors provide no automatic func- /

/0/7/ / tions; therefore, no adverse consequences should result and continued operation/

/0/8/ / is justified. This reportable pursuant to IEB 79-01B and T.S. 6.9.1.8.i. /

SYSTEM CODE — CAUSE CODE — CAUSE SUBCODE — COMPONENT CODE — COMP. SUBCODE — VALVE SUBCODE

/0/9/ /I/D/ (11) /B/ (12) /B/ (13) /I/N/S/T/R/U/ (14) /P/ (15) /Z/ (16)

LER/RO REPORT NUMBER (17) — EVENT YEAR — SEQUENTIAL REPORT NO. — OCCURRENCE CODE — REPORT TYPE — REVISION NO.

/8/0/ /-/ /0/7/1/ / \ / /0/1/ /T/ /-/ /0/

ACTION TAKEN — FUTURE ACTION — EFFECT ON PLANT — SHUTDOWN METHOD — HOURS — ATTACHMENT SUBMITTED — NPRD-4 FORM SUB. — PRIME COMP. SUPPLIER — COMPONENT MANUFACTURER

/G/ (18) /F/ (19) /Z/ (20) /Z/ (21) /0/0/0/0/ (22) /Y/ (23) /N/ (24) /A/ (25) /6/0/5/0/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / Further review has indicated that there is inadequate information to demon- /

/1/1/ / strate environmental qualification of the signal processors. Operators have /

/1/2/ / been alerted to possible erroneous indications from the signal processors which/

/1/3/ / produce the inside recirc. spray pump sump level indication. As a permanent /

/1/4/ / solution, the signal processors will be relocated to a less harsh environment. /

FACILITY STATUS — %POWER — OTHER STATUS — METHOD OF DISCOVERY — DISCOVERY DESCRIPTION (32)

/1/5/ /E/ (28) /1/0/0/ (29) / NA / (30) /D/ (31) / Notification from A/E /

ACTIVITY RELEASED — CONTENT OF RELEASE — AMOUNT OF ACTIVITY (35) — LOCATION OF RELEASE (36)

/1/6/ /Z/ (33) /Z/ (34) / NA / / NA /

PERSONNEL EXPOSURES: NUMBER — TYPE — DESCRIPTION (39)

/1/7/ /0/0/0/ (37) /Z/ (38) / NA /

PERSONNEL INJURIES: NUMBER — DESCRIPTION (41)

/1/8/ /0/0/0/ (40) / NA /

LOSS OF OR DAMAGE TO FACILITY (43): TYPE — DESCRIPTION

/1/9/ /Z/ (42) / NA /

PUBLICITY: ISSUED — DESCRIPTION (45)

/2/0/ /N/ (44) / NA /

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NRC USE ONLY / / / / / / / / / / / / /

NAME OF PREPARER W. R. CARTWRIGHT PHONE (703) 894-5151

Virginia Electric and Power Company
North Anna Power Station, Unit #1 and #2 Attachment: Page 1 of 1
Docket No. 50-338, 50-339
Attachment to LER 80-071/01T-0

Description of Event

Redundant signal processors, LIT-RS-151 A & B for Unit 1 and LIT-RS-251 A & B for Unit 2, utilized for indication of the Inside Recirc. Spray pump sump level, were previously reported as being environmentally qualified as part of the NuReg-0588 review. Additional review of Class IE electrical equipment has revealed that the components were not tested in a harsh environment along with its associated level transmitter.

Probable Consequences of Event

Since the signal processors generate no automatic functions, no adverse consequence should result and continued operation is justified. An erroneous level indication will not prevent the proper functioning of the containment safeguards.

Cause of Event

The containment sump level instrument channel is composed of a sump mounted and environmentally qualified level transmitter (LT) and a separate signal processor (LIT) located in the auxiliary building. The LIT can potentially be exposed to a harsh enviornment due to its present location in the auxiliary building and thereby produce an erroneous level signal to the control room level indicator. While reviewing the Franklin Institute's report for the qualification of the level transmitter it was determined that the LIT's were not tested for harsh environmental conditions.

Immediate Corrective Action

Reactor operators have been alerted to possible erroneous indication of the sump level channels under accident conditions.

Scheduled Corrective Action

The LIT's for both units will be relocated to a less harsh environment. Implementation is scheduled for completion prior to January 1, 1981.

Actions Taken to Prevent Recurrence

No further actions are required.

Generic Implications

Environmental qualification of the LIT's (GEMS model No. RE-31320/31411) may be applicable to other facilities with similar applications.