

REQUEST TO CHANGE PROCEDURE
NORTH ANNA POWER STATION
VIRGINIA POWER

ADM-5.4
Attachment 3
Page 1 of 1
07-09-87

1 SUPERVISOR RESPONSIBLE FOR FOLLOWING PROCEDURE:

☐ ABNORMAL
☐ ADMINISTRATIVE
☐ ANNUNCIATOR
☐ CALIBRATION
☐ CHEMISTRY

☐ CURVE BOOK
☐ EMERGENCY
☐ IN-SERVICE INSPECTION
☐ MAINTENANCE
☐ NON-DESTRUCTIVE TEST

☐ OPERATING
☐ PERIODIC TEST
☐ HEALTH PHYSICS
☐ SPECIAL TEST
☐ START-UP TEST

☐ WELDING

PROCEDURE NO:

1-AP-24.2

2 UNIT NO:

1

3 REVISION DATE:

1-31-85

TITLE: SMALL STEAM GENERATOR TUBE LEAK

CHANGES REQUESTED: (GIVE STEP NUMBER, EXACT SUGGESTED WORDING, AND LIST REFERENCES, STAPLE COPY OF PROCEDURE WITH SUGGESTED CHANGES MARKED TO THIS FORM.)

ADDED N-16 RAD MONITOR TO INDICATIONS, ADDED
REFERENCE TO STANDING ORDER #155

REFERENCES:

PWR - 87 - 569, STANDING ORDER #155

REASON FOR CHANGES:

NEW RAD MONITOR ADDED TO MS SYSTEM TO
ASSIST IN EMERGENCY DETECTION OF SG TUBE LEAKAGE

GE REQUESTED BY:

glover

8 DATE:

10-8-87

ACTION TAKEN:

DOES THIS CHANGE THE OPERATING METHODS AS DESCRIBED IN THE UFSAR?

☐ YES

☒ NO

DOES THIS CHANGE INVOLVE A CHANGE TO THE TECH. SPECS?

☐ YES

☒ NO

DOES THIS CHANGE INVOLVE A POSSIBLE UNREVIEWED SAFETY QUESTION?

☐ YES

☒ NO

IF ALL "NO", NO "SAFETY ANALYSIS" IS REQUIRED. IF ANY "YES", A "SAFETY ANALYSIS" IS REQUIRED.
(10CFR50.59) APPROVED COPY TO BE PROVIDED TO LICENSING COORD. FOR INCLUSION IN ANNUAL REPORT.

RECOMMENDED ACTION:

☒ APPROVED

☐ DISAPPROVED

DOES THIS PROCEDURE CREATE A
QA DOCUMENT? YES ☒ NO ☐

BY: (COGNIZANT SUPERVISOR)

glover

12 DATE:

10-8-87

REVIEWED BY QUALITY ASSURANCE:

CHANGES MADE:

YES ☐

NO ☒

BY:

glover

15 DATE:

10/8/87

REVIEWED BY STATION NUCLEAR SAFETY AND OPERATING COMMITTEE:

☒ APPROVED

☐ DISAPPROVED

☐ APPROVED AS MODIFIED BY COMMITTEE

MAN SIGNATURE:

glover

18 DATE:

10/9/87

NEW PROCEDURE REVISION DATE:

ACTION COMPLETED BY:

21 DATE:

11/17

9203030465 910819
PDR FOIA
WILLIAM91-106 PDR

9203030465

VIRGINIA POWER
NORTH ANNA POWER STATION
UNIT 1

SMALL STEAM GENERATOR TUBE LEAK
(With No Attachments)

REFERENCES:

1. UFSAR Chapter 5.0, 11.1, 11.2 and 11.4
2. 1-OP-32
3. 11715-LSK-15-12
4. 11715-FM-70A, 70B, 87C and 98A
5. Unit 1 Technical Specifications
6. EWR-87-569

REV. NO: _____ PAGE _____ DATE 00-00-00 APPROVAL _____

RECOMMENDED APPROVAL: _____

APPROVED BY: _____

CHAIRMAN STATION NUCLEAR SAFETY
AND OPERATING COMMITTEE

DATE: 00-00-00

1.0 Purpose

- 1.1 This procedure provides the indications of, probable causes for and the immediate and long term actions to be taken in the event of a small steam generator tube leak.

2.0 Indications

- 2.1 Steam Generator blowdown radiation monitors (RM-SS-122, RM-SS-123 or RM-SS-124) showing increasing activity or are in alarm.
- 2.2 Condenser air ejector radiation monitor (RM-SV-121) showing increasing activity or is in alarm.
- 2.3 Main Steam Header N-16 radiation monitor (01-MS-RI-193A) in alarm or recorder (01-MS-RF-193) showing increasing activity.
- 2.4 Radiation Monitor Recorder (RR-100) shows an increasing activity level for steam generator blowdown monitors or condenser air ejector outlet activity.

3.0 Probable Causes

- 3.1 Small hole in a steam generator tube.

4.0 Immediate Operator Action

- 4.1 Notify Shift Supervisor.

Initials

5.0 Long Term Operator Actions

- _____ 5.1 Attempt to determine which steam generator is leaking.
- _____ 5.2 Notify Chemistry and Health Physics departments for samples.
- _____ 5.3 Isolate blowdown on the affected steam generator, BUT leave the
lineup to the sample system open.
- _____ 5.4 Perform a "Reactor Coolant System Leak Rate" as per 1-PT-52.2
to determine the leakage rate.
- _____ 5.5 Determine the need to shift to auxiliary steam, from Unit 2, or
auxiliary boilers as per Health Physics recommendations.
- _____ 5.6 Determine the need to isolate steam from the affected steam
generator to the steam driven aux. feedwater pump (1-FW-P-2).
- _____ 5.7 IF secondary coolant activity exceeds 10^{-5} uCi/ml, THEN place
and Special Order Blue Tag the turbine building sump pumps in
manual operation. Samples of the sumps must be collected AND
analyzed PRIOR to release.
- _____ 5.8 Request Chemistry to trend the leakage on the affected SG on a
daily basis OR more frequently as required.
- _____ 5.9 Refer to Standing Order #155 to ensure compliance with
allowable primary to secondary leakage.
- _____ 5.10 Resume steam generator blowdown of the affected steam generator
based on Health Physics and Chemistry Dept. recommendations.
- _____ 5.11 Terminate this procedure.

Complete By: _____

Date: _____