

Originator: CONVERTED DATA

Originator Phone: 0

Originator Group: CONVERTED DATA

Operability Required: N

Supervisor Name: CONVERTED DATA

Reportability Required: N

Discovered Date: 05/03/2001 00:00

Initiated Date: 05/03/2001 00:00

Condition Description:

DURING VISUAL EXAM OF 'A' SSW DISCHARGE PIPING IT WAS DISCOVERED THAT A 20 FOOT SECTION OF RUBBER LINING WAS PEELED OFF OF THE PIPING EXPOSING BARE METAL

Immediate Action Description:

Suggested Action Description:

EQUIPMENT:

Tag Name

Tag Suffix Name Component Code Process System Code

29

REFERENCE ITEMS:

Type Code

Description

CONVERTED PR

PR.01.2275

TRENDING (For Reference Purposes Only):

Trend Type

Trend Code

KEYWORDS

MAINT RULE

Initiated Date: 5/3/2001 0:00**Owner Group :**Eng Sys Mech Staff**Current Contact:** WALKER, J.**Current Significance:** C - CORRECTION**Closed by:** WALKER, J.

5/11/2001 0:00

Summary Description:

DURING VISUAL EXAM OF 'A' SSW DISCHARGE PIPING IT WAS DISCOVERED THAT A 20 FOOT SECTION OF RUBBER LINING WAS PEELED OFF OF THE PIPING EXPOSING BARE METAL

Remarks Description:

PR=EF TP00-037 SSW SALT SERVICE WATER MR1000753 T. TRAINOR

Closure Description:

SEE CORRECTIVE ACTION RESPONSE.

Version: 1

Significance Code: C - CORRECTION

Classification Code: NON-SIGNIFICANT

Owner Group: Eng Sys Mech Staff

Performed By: Gaedtke, Joseph R

05/03/2001 00:00

Assignment Description:

EVALUATE 'A' SSW DISCHARGE PIPING INSPECTION - U.T. RESULTS TO DETERMINE CORRECTIVE ACTION PLAN.

CA Number: 1

Group	Name
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Assigned By: Eng Support Mgmt Staff

MCELHINNEY, T.

Assigned To: Eng Sys Mech Staff

Gaedtke, Joseph R

Subassigned To :

Originated By: MCELHINNEY, T.

5/3/2001 00:00:00

Performed By: GAEDTKE, J.

5/10/2001 00:00:00

Subperformed By:

Approved By:

Closed By: MCELHINNEY, T.

5/10/2001 00:00:00

Current Due Date: 05/03/2001

Initial Due Date: 05/03/2001

CA Type: GENERAL

Plant Constraint: NONE

CA Description:

EVALUATE 'A' SSW DISCHARGE PIPING INSPECTION - U.T. RESULTS TO DETERMINE CORRECTIVE ACTION PLAN.

Response:

CONVERTED DATA

Subresponse :

Closure Comments:

CORRECTIVE ACTION PLAN DEVELOPED.

1. Problem Description: While inspecting the "A" SSW Discharge piping in accordance with TP99-031, a 20 foot section of rubber lining was found peeled off the piping exposing bare metal. The effected SSW spool was JF29-11-4.

2. Apparent/Direct Cause: Age related wear of the original 30-year-old liner.

The cause of these and previous failures have been determined to be aging rubber lining.

Extensive testing was conducted during the intake buried piping root cause analysis. Representative samples of the rubber lining removed from pipe spools were sent to the S.G. Pinney Associates Inc. Laboratory testing was performed to determine the physical properties of the rubber lining. Of particular interest were three parameters; a. tensile testing, b. Tensile testing for elongation and c. Shore Hardness testing. Their report identified that the physical parameters of these tests indicated a loss of ductility of the rubber that results in embrittlement, cracking and susceptibility to mechanical damage. Their conclusion indicated that the original lining of the Salt Service Water Piping at Pilgrim station had reached the end of its performance life. They also stated that in other industrial applications (such as oil refining and chemical production), rubber lined pipe in salt water service is considered to have a 15 year economic life and is either relined or replaced on a scheduled basis. Their analysis indicated that the lifetime was consistent with the findings of the examination of the Salt Service Water Piping at PNPS.

3. Equipment Performance Issues: System Number 29 Component Number JF29-11-4

Component Type or Description "A" Loop SSW Discharge Pipe Spool

Maintenance Rule Functional Failure: 0 YES 1 NO 0 Unknown

3. Corrective Actions Completed (include Dates if possible)

The "A" Loop SSW Discharge Piping was originally going to be relined with a CIPP (Cured In Place Pipe) Lining in accordance with PDC01-09. Due to problems encountered with liner impregnation and premature curing (exothermic reaction), that lining was not installed. As a result, this 20' and several additional areas in the "A" Loop discharge line were repaired by an alternate means using Belzona Ceramic R-Metal epoxy compound in accordance with FRN01-09-05 and MR10000753. This work was completed on 5/4/01.

5. Corrective Actions Required (if not required, check "N/R") 1 N/R

6. Trend Data for Apparent Cause (check "N/R" if analysis deals with equipment performance only) 1N/R

7. The significance should: 0 Be Upgraded 1 Remain the Same

If applicable, the reason for the upgrade: