50-329
50-330

CONSUMERS POWER COMPANY
MIDLAND ENERGY CENTER

Transmittal No: CSC-7244

Date: January 27, 1984

To: Stone & Webster
F O Box 1963
Midland, MI 48640

PRINCIPAL STAFF			
RA	DOS	DRP	
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SGS	
SGA		ML	
ENF		File	DOS

✓orig+3

Attached Is: [X] Partial Response To

[ ] Complete Response To

[ ] For Your Information

[ ] Other

Description:

Observation 037, Report #24.

Attached is a proposed disposition of this issue.

Signature: BHD

cc: JGKeppler, NRC Region III w/a
JJHarrison, NRC Region III w/a
RJCook, NRC Site w/a
RAWells, MPQAD w/a
BHPeck, MEC w/a
NIReichel, MEC w/a
DDJohnson, MEC w/a

FEB 2 1984

IE01

Rec'd 1/20/84 12:30 PM (Delivd By T. Foote)

MIDLAND PROJECT
QUALITY ASSURANCE
DEPARTMENT

ORIGINAL

NONCONFORMANCE REPORT

FOR DISPOSITION Staff E

16 NCR NO. 2-00994

17 DATE ISSUED 1-12-84

18 0

19 PAGE 1 OF 1

1 ITEM LOCATION
AUX. BLDG (6'-6" E/5.0 - 2'-6" S/H) ELEV 634' + 15'

2 ITEM DRAWING/PART NO.	3 ITEM PART NAME	4 ITEM SERIAL NO.
N/A	1AKA19	N/A

5 ITEM DESCRIPTION
One Cable in Cable Tray 1AKA19 has ~~a small~~ minor puncture Damage.
(ALSO See NCR C-00725)

6 ITEM STARTUP SYSTEM NO.	7 REFERENCE DOCUMENT	8 ASME A.N.I. REQUIR
Unknown	N/A	☐ YES ☒ NO

9 INSPECTION RECORD NO.	LOG NO.	REV NO.	10 RESPONSIBLE ORGANIZATION
N/A	N/A	N/A	BPC Constructio

11 NONCONFORMANCE DISCOVERED DURING: ☐ DESIGN ☐ RECEIVING ☒ CONST ☐ RELEASE FOR INSPE ☐ POST INSPECT ☐ TURNOVER ☐ POST TURNOVER ☐ PRE-OP TEST ☐ FINAL TURNOVER ☐ OVERINSPEC

12 REQUIREMENT E-42A (SH 7; F) states: "Conductors in Trays shall be Protected During The Construction Period against Damage from any source. Particular attention shall be given To protection from welding and Burnin

13 NONCONFORMANCE
Cable Tray 1AKA19 Contained Lumber with Protruding nails. There is one cable with puncture Damage in This Tray.

14 NCR ORIGINATED BY (PERSON)
[signature]
Lawrence S Ouellette

DAT

15 NCR ORIGINATED BY (DISCIPLINE)
Electrical

20 NUMBER OF HOLD TAGS (IF APPLIED)	21 LOCATION OF HOLD TAGS
1	At the Point of Damage on Ca

22 POTENTIAL 50.55(e)	24 ACTION ITEM NO.	26 ITEM PRIORITY CODE NO.	28 NCR REVIEWED BY:
☐ YES ☒ NO	S04299	3	[signature]
23 REPORTED TO MPQA MANAGER DATE N/A	25 DISCIPLINE: E	27 TREND CODE A-8	DATE: 1-13-84

CONTINUED ON REVERSE.

29. CAUSE

CRAFTSMEN FAILED TO REMOVE LEFTOVER SCAFFOLDING BOARDS FROM WORK AREA AND PLACE IN DISPOSAL.

30 PROCESS CORRECTIVE ACTION

☐ YES ☒ NO QAR NO. _____

31 RECOMMENDED DISPOSITION

☐ REWORK ☐ SCRAP/REJECT ☒ REPAIR ☐ USE AS IS

32 CONDITIONAL RELEASE

☐ YES ☒ NO

31A ADDITIONAL INFORMATION SEE ATTACHED SHEET

33 DISTRIBUTION FOR ACTION

~~CONSTRUCTION~~

PROJECT ENGINEERING

34 DISPOSITION CONCURRENCE

PROJECT FIELD ENGINEER	DATE	MPQAD CONCURRENCE	DATE	PFQCE (ASME)	DATE
				PQAE (ASME)	DATE
LEAD DESIGN ORG	DATE	CP Co SMO (for turned over systems)	DATE		
				A.N.I. (ASME)	DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

☐ ACCEPTABLE ☐ UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER_____

37 NCR CLOSED BY

MPQAD	DATE
A.N.I. (ASME)	DATE

QA AI SO 4299

NCR C-00994

CABLE 1AW068A WILL BE MEGGER TESTED PER FIELD PROCEDURE FPE-2.000 FOR ELECTRICAL INTEGRITY. IF TESTING OF CABLE PROVES SATISFACTORY CABLE DAMAGE WILL BE EXAMINED TO DETERMINE DEPTH OF PUNCTURE. IF CONDUCTORS ARE SHOWN TO BE UNDAMAGED CABLE JACKET WILL BE REPAIRED USING RAYCHEM WJRS HEAT SHRINK TUBING (MILD ENVIRONMENT), IF TESTING OF CABLE PROVES UNSATISFACTORY OR CONDUCTORS ARE DAMAGED CABLE WILL BE SCRAPPED AND REPLACED WITH A NEW CABLE ALL FIELD WORK WILL BE DONE PER A CWP (CONSTRUCTION WORK PLAN) TO BE ISSUED AT A FUTURE DATE.

WM. KIEBY
1-20-84

1-20-84

NJRS

Nuclear Jacket Repair Sleeve

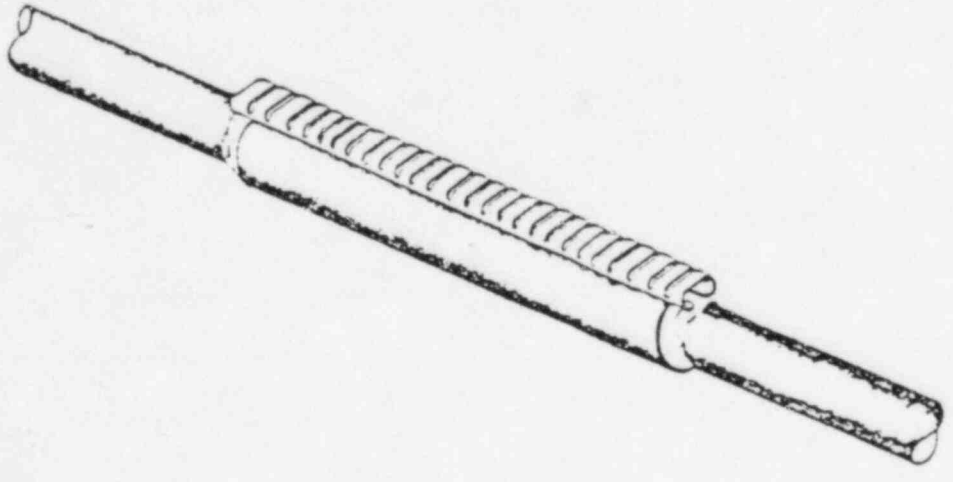
Selection Guide

1. The NJRS, Nuclear Jacket Repair Sleeve, is a wraparound sleeve with a metal channel closure system. It is designed to repair insulation/jacket damage on low voltage cable when the end of the cable is not accessible.

2. NJRS has been tested for Class 1E service subject to normal operating conditions. Additional testing relating to accident performance is detailed in Raychem Report EDR-5059.

3. When operating conditions are such that neither the conductor nor the ambient will exceed 70C (e.g. no overload/short circuit or accident), the metal channel may be removed after installation to provide a smooth low profile.

4. Raychem qualification type tests are valid when NJRS is used within the specified range on the included table. Use of the product beyond the ranges may invalidate the applicability of these tests.



USE RANGES

RAYCHEM P/N	Non-Accident	Accident (LOCA/MSLB or HELB)
NJRS-1-12	.25" - 1.00"	.43" - .80"
NJRS-2-12	.70" - 1.75"	.70" - 1.40"