

PROCEDURE FOR: INSTALLATION OF INSULCO/HEMYC CABLE TRAY PROTECTION SYSTEM ONTO SINGLE OR MULTIPLE CONDUITS	PROCEDURE NUMBER: <u>8400.103</u>
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PROCEDURE ISSUE SUMMARY

ISSUE/DATE	PREPARER	APPROVED	COMMENTS
A DRAFT 11/21/82	<i>R.L. Meadows</i> R.L. Meadows	<i>K.R. Harris</i> K.R. Harris <i>L.C. Spriggs</i> L.C. Spriggs	Issued for Review and Comment
B ISSUE 11/29/82	<i>R.L. Meadows</i> R.L. Meadows	<i>K.R. Harris</i> K.R. Harris <i>L.C. Spriggs</i> L.C. Spriggs	Add Insulco Foreword; Revise 1.0 to define testing; Revise 2.0; Add ANI reference to 3.2, Revise 4.0, 5.1, 5.2, 5.3, 6.7 and 6.8

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Form 00-5
06/01/82

supercedes previous

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INSULCO INCORPORATED

November 1, 1982

FOREWORD

This Procedure has been developed by B&B Insulation, Inc., an affiliate company of INSULCO, INC. and is intended for use in the installation of the HEMYC CABLE TRAY PROTECTION SYSTEM into nuclear facilities.

This Procedure may be utilized by an affiliate company of INSULCO, INC. or by any organization granted written authorization by INSULCO, INC. Refer to Section 5.4 within this Procedure for certification of the installed system requirements.

INSULCO, INCORPORATED

L. Charles Spriggs
Quality Assurance Manager

INSTALLATION PROCEDURE FOR INSULCO/HEMYC
CABLE TRAY PROTECTION SYSTEM
ONTO SINGLE OR MULTIPLE CONDUITS

B 1.0 PURPOSE

The purpose of this Procedure is to assure that the installation of the INSULCO/HEMYC Cable Tray Protection System is consistent with system as tested on the various qualification tests. The Fire Qualification Test, referenced as B&B CTP-1026, consisted of a One (1) Hour Fire Exposure, per ASTM E-119 criteria, including hose stream test in accordance with the AMERICAN NUCLEAR INSURERS Information Bulletin No. 5(79) entitled, "ANI/MAERP STANDARD FIRE ENDURANCE TEST METHOD TO QUALIFY A PROTECTIVE ENVELOPE FOR CLASS IE ELECTRICAL CIRCUITS".

B 2.0 SCOPE

This procedure provides the methods and guidelines to be utilized for the installation of INSULCO/HEMYC Cable Tray Protection Systems for conduits.

B 3.0 REFERENCES

3.1 10CFR50, Appendix R

3.2 ANI Bulletin 5(79)

3.3 B&B Installation Procedure No. 8400.101

INSTALLATION PROCEDURE FOR INSULCO/HEMYC CABLE TRAY PROTECTION SYSTEM - STRAIGHT SECTIONS

3.4 B&B Installation Procedure No. 8400.102

INSTALLATION PROCEDURE FOR INSULCO/HEMYC CABLE TRAY PROTECTION SYSTEM - CURVED SECTIONS

B 4.0 DEFINITIONS

CLIP - sheet metal clip used to hold blanket system onto finger strap.

FINGER STRAP - thin, sheet metal strapping with pre-punched sections that may be bent out to provide anchoring for blanket system.

B 5.0 RESPONSIBILITY

5.1 The authorized installer's ENGINEERING DEPARTMENT shall be responsible to define the scope of work as prescribed on the applicable contract documents and provide the appropriate drawings, specifications, requirements, instructions, etc. to the department responsible for installation.

This department shall also be responsible to provide liason with applicable client personnel and other internal departments to assure smooth flow of communication.

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- 5.2 The authorized installer's PRODUCTION DEPARTMENT shall be responsible for the identification and scheduling of work to be performed as defined on the documents furnished by ENGINEERING.
- 5.3 The authorized installer's PRODUCTION DEPARTMENT shall be responsible for the performance of installation activities herein prescribed.
- 5.4 INSULCO, INC. QUALITY ASSURANCE DEPARTMENT shall be responsible that appropriate inspection, documentation and monitoring is provided as established in the applicable INSULCO and/or B&B Insulation Quality Control Procedures.

The quality activities may be performed by the Quality Control Department of any affiliate company of INSULCO, INC. or by any organization granted written authorization by the INSULCO QUALITY ASSURANCE DEPARTMENT utilizing the established INSULCO QC Procedures. If this is the case, INSULCO QA maintains the responsibility for the QA/QC of the system installation and shall certify that the installed system is consistent with the qualification tested system design.

6.0 PROCEDURE

- 6.1 Stretch finger strapping along conduit to be protected and bend fingers out away from conduit.
- 6.2 Holding finger strapping against conduit, attach clamps on approximate 18" centers around conduit and tighten clamps. (See Figure 1).
- 6.3 Impale blanket onto finger strap. Allow 2" minimum between edge of blanket and fingers.
- 6.4 Bring rest of blanket around conduit and impale edge of blanket onto fingers over the other edge. (See Figure 2).

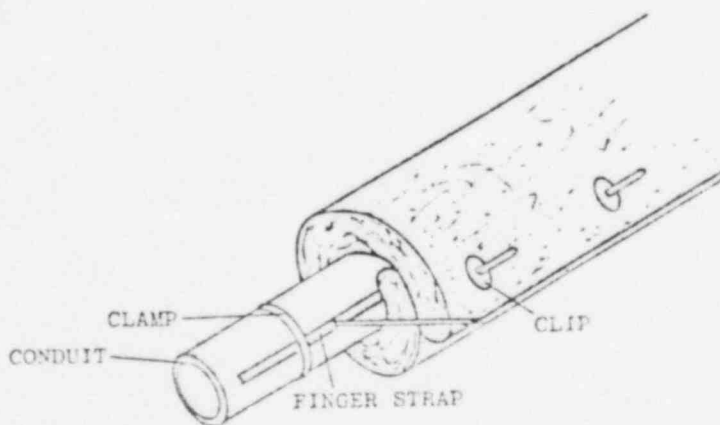


FIGURE 1

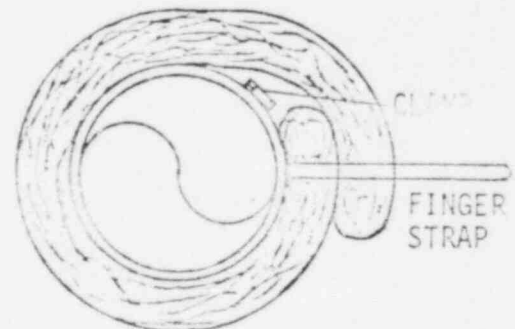


FIGURE 2

- 6.5 Attach clips onto fingers, compressing blanket approximately 1/4" - 1/2" and bend finger over to secure blanket.
- 6.6 Multiple conduits are similar but only one conduit needs finger strapping. (Reference Figure 3)

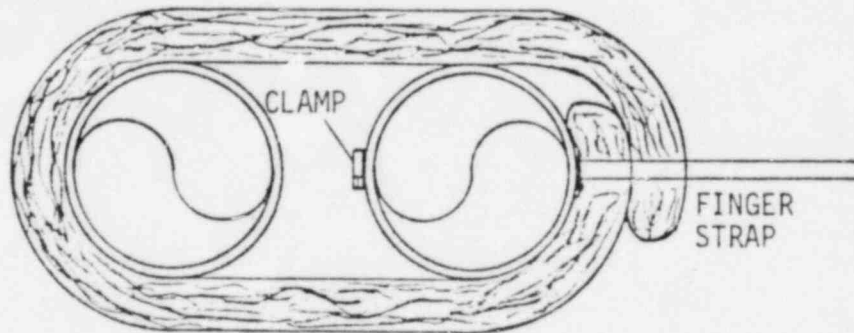


FIGURE 3

- 6.7 An alternate method of blanket attachment is to wrap the blanket around the conduit ensuring that the proper overlap is achieved. Attach clamps around the blanket to secure blanket to conduit. Clamps must be on maximum 9" centers. (See Figure 4).

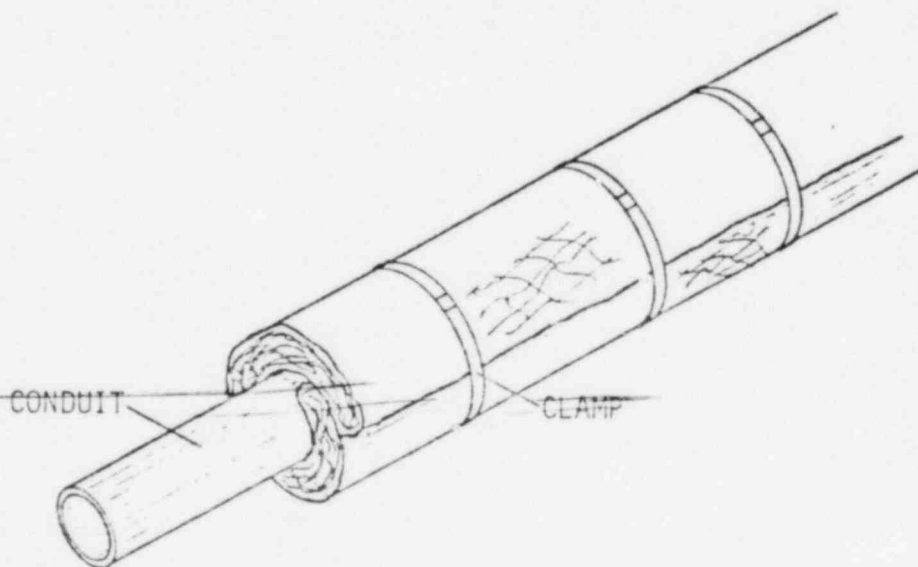


FIGURE 4

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- 6.8 In areas where ceiling, wall or partition clearances do not allow for blanket thickness, the blanket may be attached using methods and materials outlined in Procedure No. 8400.104, Section 6.3.

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