



SPECIFICATION
 CCIS-328227-003

NOT IMPORTANT TO SAFETY

INSTALLATION SPECIFICATION FOR

OYSTER CREEK NUCLEAR GENERATING STATION

REPAIR OF CONCRETE FLOOR REMOVED IN DRYWELL

FOR UT READINGS

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DATE 12/11/86

ENGINEERING APPROVAL

DATE 12/12/86

QA CONCURRENCE

DATE

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1.0 PURPOSE

- 1.1 This specification provides instructions for the repair of the Drywell concrete floor excavated to permit UT of the Drywell wall. The subject excavations are located in Bays 5 and 17.

2.0 QUALITY ASSURANCE REQUIREMENTS

- 2.1 All work outlined in this specification is Not Important to Safety.

3.0 REFERENCES

- 3.1 Work request 328227-002.
- 3.2 Dow Corning Form 61-320-B-77: Information About Silicone RTV Foam.
- 3.3 Dow Corning Form 61-434-78: Spec - Data Sheet for Dow Corning 3-6548 Silicone RTV Foam.
- 3.4 PROMATEC, Inc. Product Information Sheet for LDSE (Light Density Silicone Elastomer).
- 3.5 GPUN Installation Specification IS-328227-002: Replacement of Drywell Vessel Core Sample Plugs.
- 3.6 GPUN Drawing 3B-153-34-1000, Rev. 0; Reactor Building Elev. 10'-3", Repair of Concrete Floor Removal in Drywell for UT Readings.

4.0 INSTALLATION

4.1 Prerequisites

- 4.1.1 All work permits are obtained.
- 4.1.2 Surface of concrete and Drywell wall are free of loose dust and grease.
- 4.1.3 Drywell wall in the area of excavation has been painted per the requirements of IS-328227-002.
- 4.1.4 Craft has been adequately trained on the method of installation of the materials to be used.
- 4.1.5 Shelf life of the materials has not expired.
- 4.1.6 Appropriate radiological controls are in place.
- 4.1.7 All standing water shall be removed from the trench.

4.2 Description of Repair

4.2.1 This repair shall consist of placing a protective/sealing layer of Low Density Silicone Elastomer (LDSE) manufactured by PROMATEC, Inc. over a fill layer of Dow Corning 3-6548 Silicone RTV Foam.

4.2.2 Requirements for the Fill Layer:

- a. The RTV Foam shall be installed in the excavation to a level approximately 1 1/2 inch below the existing finished concrete floor elevation.
- b. It is suggested that M&C produce a wedge of the RTV material outside the Drywell. This wedge should be approximately 16"W X 40"L. Maximum depth should be about 18" at one end taper down to approximately 1/2" on the other end. Mix and place the foam for this wedge per the manufacturer's instructions on four placements of approximately equal heights. Allow a minimum of 20 minutes between placements.
- c. Allow finished wedge to cure for a minimum of 2 hours before removing from its form and transferring to the Drywell.
- d. Place the wedge in the excavated area. Trim the underside of the wedge as required so the top is approximately 2 1/2" below the level of the finished concrete floor. Trim the edges to provide at least a 1" clearance to the edge of the excavation. Remove the wedge.
- e. Remove all standing water from the trench prior to installation of fill layer. Surface of trench may be damp.
- f. Place a thin layer of RTV foam on the bottom of the excavation. Immediately replace the fitted wedge.
- g. Fill any gaps between the sides of the excavation and the wedge with additional RTV foam.
- h. Place additional foam on top of the wedge (if required) to ensure the level of the cured RTV foam will be approximately 1 1/2" below the finished level of the concrete floor.

- h. Wait a minimum of 2 hours for the RTV foam to cure. Remove any excess foam to provide a surface which is approximately 1 1/2" below the elevation of the finished concrete floor.

4.2.3 Requirements for Protective/Sealing Layer:

- a. Mix and place LDSE manufactured by PROMATEC, Inc. over the RTV foam.
- b. Mixing can be performed by hand or by the method suggested in the manufacturers information sheet. In either case, the mixing proportions shall be per the manufacturer's instructions.
- c. Mix full kit of material to ensure monolithic placement and proper proportioning of the LDSE.
- d. Placement shall be per the manufacturer's instructions. Sides of the trench and Drywell wall which will be in contact with the LDSE shall be dry at time of installation.
- e. When cured, the surface of the LDSE shall be even with or slightly above the level of the finished concrete floor.

4.2 Documentation

- 4.3.1 No QC inspections are required.

4.3.2 The Job Supervisor shall ensure the following:

- a. Shelf life has not expired.
- b. Surface of excavation and Drywell wall is free of loose dust and grease.
- c. Drywell wall in area of trench has been painted per the requirements of IS-328227-002.
- d. Trench is free of standing water.
- e. Mixing and placement of the RTV foam and LDSE layers conform to the requirements of this specification.

- 4.3.3 The Job Supervisors assurance for each excavated area shall be documented and attached to the Job Package. The Job Supervisor shall sign/initial and date this assurance.