

PART 21 IDENTIFICATION NO. 80-319-000

COMPANY NAME

Stone & Webster Engineering Corp.DATE OF LETTER 12/2/80DOCKET NO. EO-322DATE DISTRIBUTED 12/4/80 a.m.ORIGINAL REPORT ☒SUPPLEMENTARY ☐DISTRIBUTION:REACTOR (R) ☒FUEL CYCLE & ☐SAFEGUARDS (S) ☐

IE FILES

MATERIALS (MD)

IE FILES

EES

IE FILES

AD/SG

AD/FF/ISI

AD/ROI

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

VENDOR BR. R-IV

VENDOR BR. R-IV

VENDOR BR. R-IV

LOEB / MPA MNB 5715

NMSS / FCMS SS-396

NRR/DOL

AEOD MNB 7602

LOEB / MPA MNB 5715

NMSS / SG SS-881

NRR/DOE

AEOD MNB 7602

LOEB / MPA MNB 5715

NRR/DSI

ASLBP E/W 450

AEOD MNB 7602

NRR/DST

SAP/SP MNB-7210A

ASLBP E/W 450

NRR/DOL

CENTRAL FILES 016

CENTRAL FILES 016

ASLBP E/W 450

CENTRAL FILES (CHRON)

CENTRAL FILES (CHRON)

CENTRAL FILES 016

CENTRAL FILES SS-396

CENTRAL FILES (CHRON)

PDR

PDR

PDR

LPDR

LPDR

LPDR

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TERA

ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOWUP AS SHOWN BELOW:

IE ☒NRR ☐NMSS ☐OTHER ☐

8 EES 2120 638

S

REV. 8/1/80
9/17/80
12/2/80

STONE & WEBSTER ENGINEERING CORPORATION



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50-322

Mr. Victor Stello
Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, DC 20555

December 2, 1980

Dear Mr. Stello:

NOTIFICATION OF DEFECT
SHOREHAM NUCLEAR POWER STATION - UNIT NO. 1
LONG ISLAND LIGHTING COMPANY

Stone & Webster Engineering Corporation (S&W), pursuant to the provisions of 10CFR21, hereby provides notification of a "defect" concerning the Shoreham Nuclear Power Station, Unit No. 1, owned by Long Island Lighting Company (LILCO) and for which S&W provided both engineering and construction services.

In accordance with the requirements of Section 21.21(b)(3), the following information is submitted:

1. Name and address of the individual informing the Commission:

Mr. P. A. Wild
Director of Engineering
Stone & Webster Engineering Corporation
Post Office Box 2325
Boston, Massachusetts 02107

2. Identification of the facility, or the basic component supplied for such facility, which contains a defect:

Shoreham Nuclear Power Station, Unit No. 1

Square D Company 480V Motor Control Centers - NEMA Size-3 starters with catalog numbers 8536SE01, 8736SE02, 8502SE02 manufactured between July of 1977 through December of 1979.

3. Identification of firm constructing facility or supplying basic component which contains a defect:

Basic component supplied by Square D Company

4. Nature of the defect and the safety hazard which could be created by such defect:

There exists a departure from the technical requirements of a procurement document in that the starter or contactor could fail to operate as specified.

The subject equipment has been delivered to a purchaser and qualifies as basic components.

The problem involves application of lubricant to the rubber bumpers attached to the movable starter armature which in some instances may become tacky, causing armature bumpers to stick to the inside of the starter case. As a result, the starter or contactor may not close when required.

The contactors are required under design basis events to mitigate the consequences of accidents. If the defective contactors (after a LOCA) do not open the low pressure coolant injection (LPCI) outboard containment isolation valves upon demand, then it is possible to lose both redundant paths for LPCI. Degradation of such essential safety-related equipment represents a major reduction in the degree of protection provided to public health and safety and could create a substantial safety hazard.

5. Date on which information of such defect was obtained:

December 2, 1980

6. In the case of a basic component which contains a defect, the number and location of all such components in use at, supplied for, or being supplied for facilities subject to the regulation:

Shoreham Nuclear Power Station - three possible defective units (IR24* MCC 1114 - Cubicle 4IL, IR24* MCC 111X - Cubicle 1CI, IR24* MCC 112Y - Cubicle 2CI).

Our investigation to date has shown no defect exists on any other S&W plants. Should this information change, this report will be supplemented and appropriate advice will be given to purchasers or licensees.

7. The corrective action which has been, is being, or will be taken; name of individual or organization responsible; and length of time taken to complete the action:

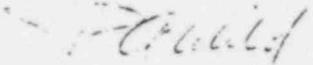
All defective units identified by S&W Field QC at Shoreham will be replaced with new units. The anticipated completion time is approximately 4 months.

8. Advice related to the defect that has been given to purchasers or licensees:

No other action apart from that specified under previous sections.

NRC has been previously advised of this problem by LILCO Notification (SNRC-516) on November 20, 1980, in accordance with 10CFR50.55(e).

Very truly yours,


P. A. Wild
Director of Engineering

PAS:CM