

SUPPLEMENT NO. 1
TO THE
FIRE PROTECTION SAFETY EVALUATION REPORT
BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
U. S. NUCLEAR REGULATORY COMMISSION
IN THE MATTER OF
NORTHEAST NUCLEAR ENERGY COMPANY
MILLSTONE UNIT 1
DOCKET NO. 50-245

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SUPPLEMENT NO. 1 TO THE FIRE PROTECTION SAFETY EVALUATION REPORT

AND

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING LICENSE AMENDMENT NO. 70 TO PROVISIONAL OPERATING
LICENSE NO. DPR-21

NORTHEAST NUCLEAR ENERGY COMPANY

DOCKET NO. 50-245

1.0 INTRODUCTION

By letter dated September 26, 1978 (License Amendment No. 53) we issued our Fire Protection Safety Evaluation Report (FPSE) to NNECo (the licensee) for the Millstone Nuclear Power Station Unit 1. In Section 3.2.1 (Smoke Detection Systems Tests) of the FPSE we state that the licensee is evaluating a method to conduct in-situ tests of the fire detector installation and that if any fire detection systems were found to be inadequate, appropriate modifications would be made to provide adequate performance.

2.0 DISCUSSION AND EVALUATION

In the FPSE we documented our concern that the smoke detectors might not respond to the products of combustion for the combustibles in the areas where smoke detectors are installed. We were also concerned that ventilation air flow patterns in the area might reduce or prevent detector response. We, therefore, recommended that the licensee perform an in-situ smoke detector test.

By letter dated May 29, 1980, the licensee committed to conduct bench testing to verify that the smoke detection installed in an area will provide prompt response and have adequate sensitivity to the products of combustion for types of combustibles in the areas where smoke detectors are installed. In addition, the smoke detector systems are designed and installed by qualified personnel and meet the appropriate NFPA codes.

The required methodology for the in-situ smoke detector test is beyond the current state-of-the-art and, therefore, an in-situ test cannot be performed at this time.

We find that with acceptable bench testing of smoke detectors, and considering that the smoke detection systems meet appropriate NFPA codes and are designed by experienced personnel, the smoke detectors are acceptable.

For completeness of records we are issuing with this FPSE Supplement an Amendment to License No. DPR-21 to revise License Condition 3.F. This revision adds "and supplements thereto" to the fourth line of the first paragraph of that License Condition. We have discussed this action with the licensee's representative and we have mutually agreed upon it.

3.0 ENVIRONMENTAL CONSIDERATION

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of the environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

We have concluded, based on the consideration discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: November 19, 1980