

Energy Measurements Group
San Ramon Operations

SRO-243
May 1981

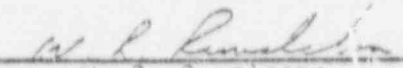
TECHNICAL EVALUATION OF THE RESPONSE TO POSITION NO.5
OF ITEM II. E. 4.2 OF NUREG-0737
CONTAINMENT ISOLATION SETPOINT
FOR THE
D.C. COOK
NUCLEAR POWER PLANT
UNITS 1 AND 2

(DOCKET Nos. 50-315 and 50-316)

by

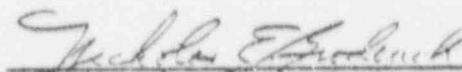
W. O. Wade

Approved for Publication


W. R. Ruvalcaba
Department Manager

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Contract No. DE-AC08-76 NVO 1183.

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INTRODUCTION AND BACKGROUND

As a consequence of the incident at TMI-2, implementation of a number of new requirements has been recommended for operating reactors. These new requirements are described in NUREG-0660, "NRC Action Plan Developed as a Result of the TMI-2 Accident," May 1980, and NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980. The NRC staff has also requested licensees to submit information sufficient to permit an independent evaluation of their response to these new requirements. This report provides an evaluation of the response to Action Plan Item II.E.4.2, position 5, by the designated licensee.

DESIGN BASIS OR REVIEW CRITERIA

Position 5 requires that the containment pressure setpoint that initiates containment isolation for non-essential system containment vessel penetrations be at, or reduced to, "...the minimum compatible with normal operating conditions."

TECHNICAL EVALUATION

Response evaluation is based upon the values provided for the following parameters:

- (1) The maximum observed or expected containment pressure during normal operation.
- (2) The loop error and observed drift in the pressure sensing instrumentation providing the isolation signal (see note).
- (3) The containment isolation pressure setpoint.

NOTE: The clarification document (NUREG-0737) provided only the expected margin for instrument error and did not specify acceptable values for instrument drift or atmospheric changes contributing to the total sensing loop error. Additional staff guidance established a limit of 3.0 psi for an isolation setpoint margin over the normal containment pressure to account for total loop error. In addition, for subatmospheric containments, a 3.0 psi setpoint margin over atmospheric pressure is also considered acceptable.

In consideration of these values, the isolation pressure setpoint is to be as low as practical without increasing the probability of inadvertent activation of the isolation signal.

CONCLUSIONS

The letter of January 8, 1981, submitted by Indiana and Michigan Electric Company, provided sufficient information to conclude that the containment isolation pressure setpoint for D. C. Cook Nuclear Power Plant, Units 1 and 2, meets the NUREG-0660/0737 requirements and is within the additional limiting guidelines provided by the NRC staff.

Safety Evaluation Report
Minimum Containment Pressure Setpoint
(Item II.E.4.2(5) of NUREG-0737)
D. C. Cook Nuclear Power Plant, Units 1 and 2
Docket Nos: 50-315, 316

1.0 Introduction

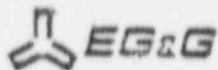
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2.0 Evaluation

Our consultant, the EG&G Energy Measurements Group (a subcontractor to Lawrence Livermore National Laboratory, which has the TMI Action Plan contract) has reviewed the licensee's submittals and prepared the attached technical evaluation report of the licensee's containment pressure setpoint used to isolate nonessential containment penetrations. We have reviewed this evaluation and concur in its basis and findings.

3.0 Conclusions

The information submitted by the licensee provided sufficient details of the licensee's containment isolation pressure for the staff to conclude that the requirements of Item II.E.4.2(5) of NUREG-0737, with the additional guidelines developed by the staff, have been met.



Energy Measurements Group
San Ramon Operations

SRO-247
May 1981

TECHNICAL EVALUATION OF THE RESPONSE TO POSITION NO.5
OF ITEM II. E. 4.2 OF NUREG-0737
CONTAINMENT ISOLATION SETPOINT
FOR THE
DRESDEN
NUCLEAR POWER PLANT
UNITS 2 AND 3

(DOCKET Nos. 50-237 and 50-249)

by

W. O. Wade

Approved for Publication

W. R. Ruvaicaba
Department Manager

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In consideration of these values, the isolation pressure setpoint is to be as low as practical without increasing the probability of inadvertent activation of the isolation signal.

CONCLUSIONS

The letter of December 31, 1980, submitted by Commonwealth Edison Company, provided sufficient information to conclude that the containment isolation pressure setpoint for Dresden Nuclear Power Plant, Units 2 and 3, meets the NUREG-0660/0737 requirements and is within the additional limiting guidelines provided by the NRC staff.

Safety Evaluation Report
Minimum Containment Pressure Setpoint
(Item II.E.4.2(5) of NUREG-0737)
Dresden Nuclear Power Plant, Unit 3
Docket No: 50-249

1.0 Introduction

As a consequence of the accident at TMI-2, implementation of a number of new requirements has been recommended for operating reactors. These new requirements are described in NUREG-0660, "NRC Action Plan Developed as a Result of the TMI-2 Accident," May 1980, and NUREG-0737, "Clarification of TMI Action Plan Requirements," November 1980. The NRC staff has also requested licensees to submit information sufficient to permit an independent evaluation of their response to these new requirements. This report provides an evaluation of the response to Action Plan Item II.E.4.2, position 5, by the designated licensee.

2.0 Evaluation

Our consultant, the EG&G Energy Measurements Group (a subcontractor to Lawrence Livermore National Laboratory, which has the TMI Action Plan contract) has reviewed the licensee's submittals and prepared the attached technical evaluation report of the licensee's containment pressure setpoint used to isolate nonessential containment penetrations. We have reviewed this evaluation and concur in its basis and findings.

3.0 Conclusions

The information submitted by the licensee provided sufficient details of the licensee's containment isolation pressure for the staff to conclude that the requirements of Item II.E.4.2(5) of NUREG-0737, with the additional guidelines developed by the staff, have been met.