

JUL 28 1982

Docket Nos. 50-254
and 50-265

MEMORANDUM FOR: E. L. Jordan, Director, Division of Engineering and
Quality Assurance, IE

FROM: T. M. Novak, Assistant Director for Operating Reactors, DL

SUBJECT: Quad Cities Station Nuclear Power Station, Units 1 and 2
Engineered Safety Features Reset Controls

Task Interface Agreement ROI-80-15 assigned the responsibility to the Office of Nuclear Reactor Regulation for reviewing the licensees responses to I&E Bulletin 80-06. Our review of the Commonwealth Edison Company response to the bulletin for Quad Cities Units 1 and 2 are complete. The Technical Evaluation Report (TER) prepared by our contractor EG&G and our Safety Evaluation Report (SER) are enclosed.

The licensee completed a drawing review in 1980 to identify components that would not remain in their emergency mode following reset of the ESF actuation signal. The licensee concluded that no equipment diverts from its emergency mode when the actuation signals are reset. However, there are ten cases identified herein where system level manual resets may return the equipment to its normal operating status.

The licensee committed to complete design modifications to the PCIS Groups I, II, and III. EG&G reviewed these modifications and reported them technically satisfactory. I&E should confirm the successful installation and testing of these modifications.

The licensee offered justifications in lieu of corrective modifications for the remaining nine cases. We find the justifications acceptable on the basis discussed in the Safety Evaluation Report.

With this SER, we conclude that the ESF reset controls for this nuclear plant comply with NRC criteria, subject to I&E confirmation as previously noted.

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Thomas M. Novak, Assistant Director
for Operating Reactors, DL

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SAFETY EVALUATION REPORT
QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2
LICENSEE RESPONSE TO I&E BULLETIN 80-06,
ENGINEERED SAFETY FEATURES (ESF) RESET CONTROLS

INTRODUCTION

Instances have been reported at operating nuclear power plants where it has been found that following the reset of an ESF actuated signal certain equipment, e.g., ventilation dampers, motors, and valves, would return to the normal mode, which could compromise the protective actions of the affected systems. As a result, on March 13, 1980, the NRC issued I&E Bulletin 80-06 requesting certain actions to be taken by licensees for all PWR and BWR facilities with operating licenses.

EVALUATION

The enclosed report (EGG 1183-4212) was prepared for us by EG&G, Inc., San Ramon, California, as part of our technical assistance contractor program. It provides their technical evaluation of the licensee's response to I&E Bulletin 80-06 in accordance with NRC-provided guidance.

EG&G reported the licensee's conclusion that all safety-related equipment remains in its emergency mode upon reset of the ESF actuating signals. However, there are ten cases where system level manual resets may return the equipment to its normal operating status.

The licensee committed to complete design modifications to PCIS Groups I, II, and III. EG&G reviewed these modifications and reported them technically satisfactory. I&E should confirm the successful installation and testing of these modifications.