

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL:50-244 Robert Emmet Ginna Nuclear Plant, Unit 1, Rochester G 05000244  
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 MAIER,J.E. Rochester Gas & Electric Corp.  
 RECIP.NAME RECIPIENT AFFILIATION  
 CRUTCHFIELD,D. Operating Reactors Branch 5

SUBJECT: Suppls 801031 submittal re "Environ Qualification of Electrical Equipments." Possible effects of motor driven auxiliary feedwater pumps failure due to high energy line break on Class 1E sys provided.

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ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649

JOHN E. MAIER  
VICE PRESIDENT

December 15, 1980

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Director of Nuclear Reactor Regulation  
Attention: Mr. Dennis M. Crutchfield, Chief  
Operating Reactors Branch #5  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: SEP Topic III-12, Environmental Qualification  
of Electrical Equipment  
R. E. Ginna Nuclear Power Plant  
Docket No. 50-244

Dear Mr. Crutchfield:

Rochester Gas and Electric has reviewed the possible effects of a failure of the motor-driven auxiliary feedwater pumps, due to the postulated occurrence of a high energy line break in the Intermediate Building, on the Class 1E electrical systems, as discussed below. This information supplements information provided in paragraph IV-11 of RG&E's October 31, 1980 submittal concerning "Environmental Qualification of Electrical Equipment".

The power feeder cables for the motor driven auxiliary feedwater pumps are routed from motor control centers (MCC's) 14 and 16, located on separate floors of the Auxiliary Building, to these pumps. The current flow in each feeder circuit is controlled by a DB-50 circuit breaker, located at the MCC's, with overcurrent settings matched to the pump characteristics and the bolted fault magnitude for the feeder circuit. Any faults generated by a pump failure will be cleared by these breakers. A single failure of a breaker will affect only one of the two safety-related "trains". Since the breakers and MCC's are located in the Auxiliary Building, and would therefore not be subject to the harsh high energy line break environment, they are not subject to a common mode failure. Control circuits for the pumps are routed from the Control Room and Relay Room to the Auxiliary Building. These circuits also have overcurrent protection, and are not exposed to the high energy line break environment.

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ROCHESTER GAS AND ELECTRIC CORP.

SHEET NO.

DATE December 15, 1980

TO Mr. Dennis M. Crutchfield, Chief

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It is therefore concluded that the Class IE electrical systems will not be degraded by a high energy line break in the Intermediate Building.

Very truly yours,

*John E. Maier*  
J. E. Maier

JEM:ng

cc: John Archer, FRC

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THE UNITED STATES OF AMERICA

DO hereby certify that the within and foregoing is a true and correct copy of the original as the same appears on the records of the Department of the Interior.

WITNESSED my hand and the seal of the Department of the Interior at Washington, D.C.

this 1st day of January 1901.

JOHN W. FOSTER, Secretary of the Interior.