

# GENERAL ELECTRIC

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NUCLEAR POWER

SYSTEMS DIVISION

MFN 063-83  
JNF 021-83

March 29, 1983

U.S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Washington, DC 20555

Attention: Mr. D.G. Eisenhut  
Division of Licensing

Gentlemen:

SUBJECT: IN THE MATTER OF 238 NUCLEAR ISLAND  
GENERAL ELECTRIC STANDARD SAFETY ANALYSIS REPORT (GESSAR II)  
DOCKET NO. STN 50-447

SUPPLEMENTAL RESPONSE AND PROPOSED RESOLUTION TO DISCUSSION  
ITEMS

Attached please find a supplemental response to a Instrumentation and Control  
Systems Branch question and the proposed resolution of the Meterology and  
Effluent Treatment Branch discussion items. This information is provided in  
the following attachments:

Attachment  
Number

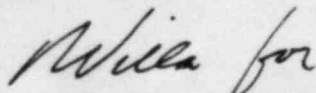
1

Supplemental Response to Instrumentation  
and Control Systems Branch Question on  
Manual Initiation of Safety Systems

2

Proposed Resolution of Meterology and  
Effluent Treatment Branch Discussion  
Items

Sincerely,



Glenn G. Sherwood, Manager  
Nuclear Safety & Licensing Operation

Attachments

cc: F.J. Miraglia (w/o attachments)  
D.C. Scaletti

C.O. Thomas (w/o attachments)  
L.S. Gifford (w/o attachments)

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ATTACHMENT NO. 1

SUPPLEMENTAL RESPONSE TO  
INSTRUMENTATION AND CONTROL SYSTEMS BRANCH  
QUESTION ON MANUAL INITIATION OF SAFETY SYSTEMS

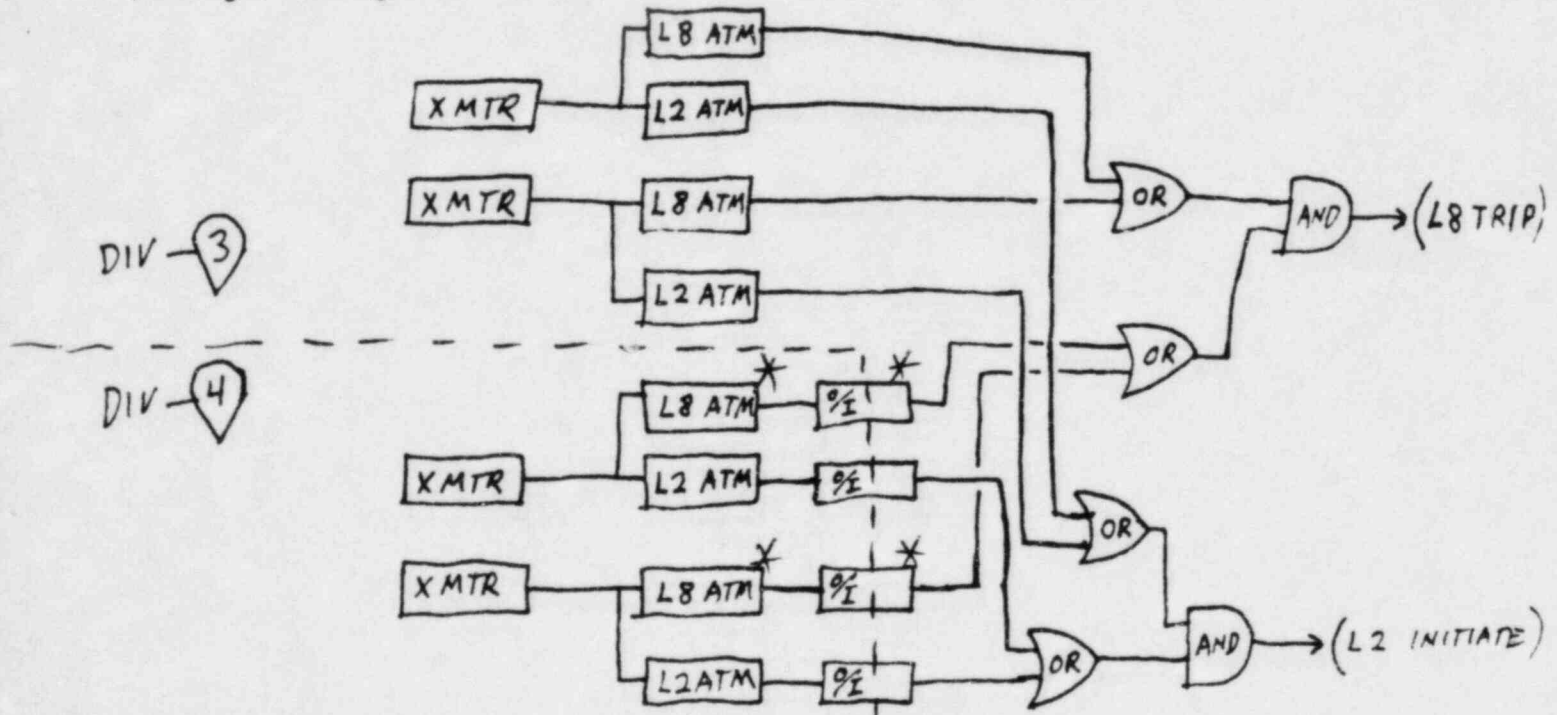
421.32 RESPONSE SUPPLEMENT

(Change HPCS description only per attached)

HPCS

The HPCS subsystem is initiated automatically by a LOCA signal (low reactor water level in a 1-out-of-2-twice logic arrangement or high drywell pressure in 1-out-of-2-twice logic) or manually by a system level armed pushbutton. In addition, the subsystem can be placed in operation by use of an individual remote manual switch for each valve and the pump. In all three initiation modes, the injection valve is interlocked closed by high water level (level 8) in a ~~1-out-of-2~~ <sup>2-out-of-2</sup> logic arrangement. If the valve is open, high water level (level 8) will cause it to close.

The level 8 signal is provided by <sup>\*</sup>four analog trip modules (ATM's) which are paired with four separate transmitters. These four transmitters also provide the four inputs used in the 1-out-of-2-twice, low-water-level system initiation circuit. The following sketch illustrates the above explanation:



The four level 8 ATM's provide the common interlock for injection valve opening in the automatic initiation mode and the two manual initiation modes.

\* USE CASE TO TAKE PLACE PRIOR TO REFERENCE BY 1ST APPLICANT

ATTACHMENT NO. 2

PROPOSED RESOLUTION OF  
METEROLOGY AND EFFLUENT TREATMENT BRANCH  
DISCUSSION ITEMS

To resolve the GE/NRC discussion items pertaining to the ESF filter systems, the solid radioactive waste management system, and the management system, and the process and effluent radiological monitoring system, the following will be added to GESSAR II by amendment in April 1983:

1. Temperature and pressure instrumentation for indication, readout, recording, and alarm for the ESF filters will be added per minimum provisions as stated in Table 6.5.1-1 of SRP 6.5.1. The details will be provided prior to the first Applicant referencing GESSAR II.
2. The Applicant will demonstrate to the satisfaction of the staff that the current storage space for solidified "wet" solid waste and the corresponding 21 containers are adequate or will increase the storage to accomodate at least 28 containers of solidified wet solid wastes for at least 30 days prior to their shipment to a licensed off site burial site.
3. The Applicant will provide continous monitoring of the currently unmonitored gasesous effluent discharges serviced by the Auxiliary Building CRD maintenance area exhaust system and the battery room exhaust system, the Radwaste Building control room, and the unit substation exhaust system.