

September 22, 1988

Docket Nos.: 50-325
50-324

Distribution

Docket File

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Mr. E. E. Utley
Senior Executive Vice President
Power Supply and Engineering
and Construction
P. O. Box 1551
Raleigh, North Carolina 27602

Dear Mr. Utley:

Subject: Development of Risk-Based Inspection Guide - Brunswick Steam
Electric Plant, Units 1 and 2

The NRC has a program for producing plant-specific inspection guidance for resident inspectors, utilizing the risk insights from a plant's Probabilistic Risk Assessment (PRA). The Risk-Based Inspection Guide (RIG) for a particular plant contains information about its dominant accident sequences, the importance of the various plant systems that contribute to these accident sequences, and the more risk-significant failure modes of the important systems. Any plant-specific vulnerabilities are highlighted for the resident. In addition, inspection checklists are provided for the most risk-significant failure modes.

In order to produce a RIG for Brunswick, we will need the following information to supplement what we have in your PRA:

1. Indexes for normal, abnormal and emergency operating procedures.
2. Mode 1 normal operating procedures, abnormal operating procedures and emergency operating procedures for the systems listed in Attachment A.
3. If not included in the normal operating procedures, the Mode 1 system line-up checklists for systems listed in Attachment A.
4. System descriptions (typically from operator training materials) for systems 15, 16, 17, and 18 on Attachment A.
5. 11" x 17" piping and instrument diagrams listed in Attachment B.

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If you would like to discuss or clarify any of the requested items, please contact Steve Long at (301) 492-3162.

Thank you for your cooperation in our efforts to make our inspection efforts more efficient and effective.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, CMB clearance is not required under P.L. 96-511.

Sincerely,

ISI

Bart C. Buckley, Senior Project Manager
Project Directorate II-1
Division of Reactor Projects I/II
Office of Nuclear Reactor Regulation

Attachments:
As stated

OFC	:LA:PD21:DRPR	:PM:PB21:DRPR	:D:PD21:DRPR	:	:	:
NAME	:PAnderson:Jaw	:BBuckley	:EAndersam	:	:	:
DATE	:9/21/88	:9/21/88	:9/21/88	:	:	:

Mr. E. E. Utley
Carolina Power & Light Company

Brunswick Steam Electric Plant
Units 1 and 2

cc:

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ATTACHMENT A

Systems Analyzed in BSEP PRA for Which

Additional Information is Requested

1. High Pressure (Ant) Injection
2. Reactor Core Isolation Cooling
3. Control Rod Drive (CRD) Hydraulic
4. Automatic Depressurization
5. Core Spray
6. Residual Heat Removal
7. Standby Liquid Control
8. Emergency Diesel Generators
9. AC Power
10. DC Power
11. Emergency Core Cooling System Actuation
 - a) HPCI Actuation to F001, F006
 - b) RCIC Actuation to F013, F045
 - c) Actuation to RHR valves F015A, F015B
 - d) LPCI Actuation to C002A, C002B, C002C, C002D
 - e) Actuation Signal to E21-F005A, E21-F005B
 - f) CSS Actuation to E21-C001A, C001B
12. Service Water
13. Reactor Building Closed Cooling Water
14. Heating, Ventilating and Air Conditioning
- 15.* Condensate
- 16.* Feedwater
- 17.* Reactor Protection
- 18.* Instrument Air

* Not modeled in PRA.

ATTACHMENT B

BSEP-PRA/RIG EFFORT DRAWINGS REQUIRED

DUE TO MINOR ILLEGIBILITY OR NON-INCLUSION IN PRA

<u>Drawing No.</u>	<u>Title</u>
D-2523, Sheet 1	Reactor Building Piping Diagram High Pressure Coolant Injection System, Sheet 1, Unit No. 2
D-2523, Sheet 2	Same, Sheet 2
D-2521-1A	Main Steam System
D-2521-1C	Feedwater System
D-2040-1B	Condensate Supply Grav. Unit 2
F-4073	Standby Gas Treatment
D-2529, Sheet 1	Reactor Building - Piping Diagram Reactor Core Isolation Cooling System, Sheet 1, Unit No. 2
D-2529, Sheet 2	Same, Sheet 2
D-2516, Sheet 1A	Reactor Building Piping Diagram Control Rod Drive Hydraulic System Sheet 1A, Unit No. 2
D-2516, Sheet 1B	Same - Sheet 1B
D-2517-2B	Instrument Air 70-75 PSIG
D-7029-2A	Instrument Air 30 PSIG
F-P-50015-7	Reactor Protection System
D-2520, Sheet 3A	Reactor Building Piping Diagram Nuclear Steam Supply System Sh. 3A, Unit No. 2
D-2516, Sheet 1A	Reactor Building-Piping Diagram Control Rod Drive Hydraulic System Sheet 1A, Unit No. 2
D-2516, Sheet 1B	Same-Sheet 1B
F-3043	Units No. 1 & 2, Key One Line Diagram, 230KV, 24KV, & 4160 Volt Systems

Attachment B (cont'd)

<u>Drawing No.</u>	<u>Title</u>
F-3044	Units No. 1 & 2 Key One Line Diagram 480 Volt System
F-3006	Unit No. 2 Single Line Diagram 125/250 Volt DC System Distribution Switchboard 2A & 2B
D-20041-1 Sheet 1	Piping Diagram-Service Water System Sheet 1 - Unit No. 1
D-20041-2	Same - Sheet 2
D-20041-3	Same - Sheet 3
D-2034-1	Service Water to Discharge Canal