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SUBJECT: Forwards supplemental response to request for addl info on HPIS.

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DUKE POWER

May 12, 1997

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Response to Request for Additional Information
on the High Pressure Injection (HPI) System
NRC TAC No. M98454

In a letter dated May 5, 1997, the staff requested additional information to support its evaluation of the recent HPI System weld crack on Oconee Unit 2. Responses to the NRC questions were provided in Duke letters dated May 7, 1997 and May 8, 1997. The Duke responses to the staff request for additional information were discussed during a May 9, 1997 conference call. Based on this conference call, please find attached additional information for two of the questions.

Please address any questions to J. E. Burchfield, Jr. at (864) 885-3292.

A001 1/1

Very Truly Yours,

J. W. Hampton
Site Vice President

xc: L. A. Reyes, Region II
Regional Administrator

D. E. LaBarge, NRR
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M. A. Scott, Region II
Senior Resident Inspector

Attachment 1
Supplemental Information Regarding May 5, 1997
NRC Request for Additional Information

Question 1b:

Provide the operational history for the normal charging/HPI injection system piping. State under what plant conditions is normal charging reduced or stopped (i.e., heating up, RCS leakage testing, when load following, etc.). State if there are any other conditions where all cooling, both normal charging and flow to the warming line, can be lost. Provide an estimate how often these events occur. Also, provide an estimate how often cold water is injected into a hot reactor (e.g., spurious safety injection signals).

Response:

Makeup flow for steady state 100% operation is routinely present and typically varies from 35 to 40 gpm. A description of the differences in makeup flow between Unit 1 and Units 2 and 3 is provided in the May 2, 1997 submittal to the NRC. Power reductions and increases due to performance testing or load following is accomplished at a controlled rate, normally at < 3%/hr. Makeup flow varies during power changes. HPI pump testing, done quarterly, varies letdown flow which in turn results in cycling makeup flow approximately four times for each test. Data gathered for makeup flow cycles on all three units resulted in approximately the same average number of cycles for unit startups and shutdowns. The May 7, 1997 submittal provided data for Units 1 and 2 and indicated a unit startup results in approximately eight cycles of makeup flow while power is increasing. Unit shutdown results in approximately twelve cycles of makeup flow while power is decreasing. From data gathered for Unit 3, the unit startup results were seven cycles of makeup flow while power is increasing and eight cycles of makeup flow while power is decreasing. Warming line flows bypass the normal makeup flow line, and are present even with normal makeup flow stopped. Warming line flows are present as long as the HPI pumps are on. The number of emergency injections are 19 for Unit 1, 18 for Unit 2, and 11 for Unit 3.

Question 2a:

Provide a history of all examinations (volumetric, surface and visual) of the pipe/safe-end weld and adjacent piping and of the radiographic examination of the thermal sleeves in each unit of Oconee.

Response:

Examination histories for the injection lines on Unit 1 were provided in a May 7, 1997 submittal to the staff. Examination histories for the Units 2 and 3 injection lines, with the exception of the 2A1 injection line, were provided in a May 8, 1997 submittal to the staff. The inspection history for the 2A1 injection line is provided in Table 1.

Table 1
Oconee Unit 2
Inspections Associated with 2A1 Discharge Make Up Nozzle

Refueling Outage	ISI Plan Item Number	Weld ID from ISI Plan	Configuration	Type of Insp.	Inspection Results	Inspection Requirements
6	E5.001.001	2PDA1-47	2A1 HPI Nozzle Safe-End Base Metal PC.47	UT	Clear	Generic Letter 85-20
6	E5.001.002	2PDA1-47	2A1 HPI Nozzle Safe-End Base Metal PC.47	RT	Clear	Generic Letter 85-20
7	B05.051.002A	2PDA1-11	2A1 Nozzle to Safe-End weld	PT	Clear	Section XI
7	E04.001.001	2PDA1-47	2A1 HPI Nozzle Safe-End Base Metal PC.47	UT	Clear	Generic Letter 85-20
7	E04.001.001A	2PDA1-47	2A1 HPI Nozzle Safe-End Base Metal PC.47	RT	Clear	Generic Letter 85-20
8	E04.001.001	2PDA1-47	2A1 HPI Nozzle Safe-End Base Metal PC.47	UT	Clear	Generic Letter 85-20
8	E04.001.001A	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	RT	Clear	Generic Letter 85-20
9	E04.001.001	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	UT	Clear	Generic Letter 85-20
9	E04.001.001A	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	RT	Clear	Generic Letter 85-20
10	E04.001.001	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	UT	Clear	Generic Letter 85-20
10	E04.001.001A	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	RT	Clear	Generic Letter 85-20
11	B09.021.101	2-51A-39.3-44	Pipe to 2A1 Safe End weld	PT	Clear	Section XI
15	B05.140.004	2PDA1-11	2A1 Nozzle to Safe-End weld	PT	Clear	Section XI
15	B09.021.040	2-51A-39-46	Pipe to Valve 2HP-127 weld	PT	Clear	Section XI
15	G02.001.001	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	UT	Clear	Generic Letter 85-20
15	G02.001.001A	2PDA1-47	2A1 HPI Nozzle Safe End Base Metal PC.47	RT	Clear	Generic Letter 85-20