

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8602110062 DOC. DATE: 86/02/04 NOTARIZED: NO DOCKET #
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397
 AUTH. NAME AUTHOR AFFILIATION
 SORESEN, G. C. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Discusses compliance w/license Condition 2.C(8) requiring
 that prior to startup, analysis be provided showing effects
 of high burnup fission gas release on LOCA. NRC concerns
 addressed in listed GE analyses.

DISTRIBUTION CODE: A001D COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2
 TITLE: OR Submittal: General Distribution

NOTES: 05000397
 OL: 12/20/83

RECIPIENT			COPIES			RECIPIENT			COPIES		
ID CODE/NAME			LTTR ENCL			ID CODE/NAME			LTTR ENCL		
BWR ADTS			1	0		BWR PD3 PD 01			5	0	
BWR EB			1	1		BWR EICSB			1	1	
BWR FOB			1	1		BRADFUTE, J			1	1	
BWR PSB			1	1		BWR RSB			1	1	
INTERNAL: ACRS 09			6	0		ADM/LFMB			1	0	
ELD/HDS2			1	0		NRR/DHFT/TSCB			1	1	
NRR/DSRO/RRAB			1	1		NRR/ORAS			1	0	
REG FILE 04			1	1		RGN5			1	1	
EXTERNAL: 24X			1	1		EG&G BRUSKE, S			1	1	
LPDR 03			1	1		NRC PDR 02			1	1	
NSIC 05			1	1							

TOTAL NUMBER OF COPIES REQUIRED: LTTR 30 ENCL 26

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

13-00000

Washington Public Power Supply System

3000 George Washington Way P.O. Box 968 Richland, Washington 99352-0968 (509)372-5000

February 4, 1986
G02-86-125

8602110062 860204
PDR ADOCK 05000397
P PDR

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attention: Ms. E. G. Adensam, Project Director
BWR Project Directorate No. 3
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

Subject: NUCLEAR PLANT NO. 2
OPERATING LICENSE NPF-21, SATISFACTION OF
LICENSE CONDITION 2.C.(8)

- References:
- 1) Letter, Cecil Thomas (NRC) to J. S. Charnley (GE), "Acceptance for Referencing of Licensing Topical Report NEDE-24011-P-A-6, Amendment 10, General Electric Standard Application for Reactor Fuel", dated May 28, 1985
 - 2) Letter, G02-82-818, G. D. Bouchey (SS) to A. Schwencer (NRC), "Core Performance Branch Concern: Cladding Rupture", dated September 30, 1982

The subject license condition requires that prior to startup following the first refueling outage, the Supply System is to provide for NRC Staff review and approval a revised analysis showing the effects of high-burnup fission gas release on loss-of-coolant accident. This license condition was imposed on the Supply System due to NRC Staff concerns about additional analysis being required in three (3) related areas:

- 1) cladding rupture (bursting), Section 4.2.3.2(7) of the WNP-2 SER, and
- 2) fragmentation of embrittled cladding, Section 4.2.3.3(1), and
- 3) cladding ballooning, Section 4.2.3.3(3).

Items 1) and 3) were initially resolved and closed out in the WNP-2 SER by the Supply System relinquishing the available analytical LOCA margin (240°F) for Peak Clad Temperature (PCT) pending review and approval of GE's methodology.

*A001
1/0*

E. G. Adensam
Page Two
February 4, 1986
SATISFACTION OF LICENSE CONDITION 2.C.(8)

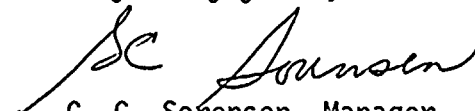
However, when it was requested that credit for calculated PCT margin as well as credit for recently approved ECCS evaluation model changes be used to offset any operating penalties due to high burnup fission gas release (the primary cause of item 2), the Staff found this unacceptable as the Supply System had already given up credit for PCT to satisfy items 1) and 3). The Staff did find the fission gas effects to be adequately analyzed for early-in-life operation, and imposed a license condition to require resolution of this issue prior to startup of the second cycle of operation.

Items 1) and 3) above were satisfactorily addressed in General Electric (GE) Topical Report NEDE-20566, which was reviewed and approved by the NRC Staff on February 4, 1981 and May 11, 1982. In Reference 2) to this letter, the Supply System requested confirmation that the PCT margin previously given up was no longer needed to account for those items. At that time, however, the NRC Staff apparently felt that there were sufficient uncertainties in GE's methodology (e.g, higher burnups) that had not yet been satisfactorily explained, and therefore opted to require the license condition to remain in effect pending completion of additional analysis by GE.

Discussions with the Staff have now indicated that sufficient analysis has been done by GE to eliminate or otherwise account for the outstanding NRC Staff concerns in this remaining area. This is evidenced by NRC's approval of Amendment 10 to GESTAR II (NEDE-24011-P-A), as described in Reference 1) to this letter.

For the reasons identified above, the Supply System considers License Condition 2.C.(8) to be satisfied and the 240⁰ margin that was previously relinquished to again be available to the Supply System in its entirety. Should you have any questions in the matter, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,


G. C. Sorensen, Manager
Regulatory Programs

HLA/tmh

cc: JO Bradfute - NRC
JB Martin - NRC RV
NS Reynolds - BLCP&R
E Revell - BPA
NRC Site Inspector