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RECIP. NAME RECIPIENT AFFILIATION
ADENSAM, E. G. BWR Project Directorate 3

SUBJECT: Forwards Table 6.2-16 in response to NRC 861223 request for addl info re 861118 application for amend to License NPF-21 concerning mods to traversing incore probe purge line. Description of questions & response also encl.

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Washington Public Power Supply System

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

January 7, 1987
G02-87-003

Docket No. 50-397

Director of Nuclear Reactor Regulation
Attn: 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, REQUEST FOR AMENDMENT TO TECHNICAL SPECIFICATIONS - PRIMARY CONTAINMENT ISOLATION VALVE - TABLE 3.6.3-1, SUPPLEMENTAL INFORMATION
Reference:	Letter, G02-86-1028, G. C. Sorensen (SS) to E. G. Adensam (NRC), same subject, dated November 18, 1986

The reference requested a change to the WNP-2 Technical Specifications to reflect modifications to the Traversing Incore Probe (TIP) purge line currently scheduled for completion during the forthcoming Spring 1987 refueling outage. During a subsequent phone conversation (December 23, 1986) between Messrs. J. O. Bradfute and K. Sang of your staff and P. L. Powell and M. R. Wuestefeld of the Supply System, supplemental information with regard to the subject change was requested. The attached information describes the questions as presented and provides the Supply System response.

Should you have any further questions, please contact Mr. P. L. Powell, Manager, WNP-2 Licensing.

Very truly yours,

GC Sorensen

G. C. Sorensen, Manager
Regulatory Programs

PLP/tmh
Attachment

cc: JO Bradfute - NRC
C Eschels - EFSEC
JB Martin - NRC RV
E Revell - BPA
NS Reynolds - BLCP&R
K Sang - NRC
NRC Site Inspector

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ATTACHMENT

1. Provide an explanation of how the proposed modifications satisfy GDC 54 and 56.

Supply System Response

GDC 54 states:

> Piping systems penetrating primary reactor containment shall be provided with leak detection, isolation, and containment capabilities having redundancy, reliability, and performance capabilities which reflect the importance to safety of isolating these piping systems. Such piping systems shall be designed with a capability to test periodically the operability of the isolation valves and associated apparatus and to determine if valve leakage is within acceptable limits.

The attached diagram, showing the scheduled modifications, reflects compliance with GDC 54 in that redundant isolation is assured by TIP V-15 and TIP V-6 and testing connections are provided to allow periodic leak detection tests to be performed.

GDC 56 states:

> Each line that connects directly to the containment atmosphere and penetrates primary reactor containment shall be provided with containment isolation valves as follows, unless it can be demonstrated that the containment isolation provisions for a specific class of lines, such as instrument lines, are acceptable on some other defined basis:
>
> (1) One locked closed isolation valve inside and one locked closed isolation valve outside containment; or
>
> (2) One automatic isolation valve inside and one locked closed isolation valve outside containment; or
>
> (3) One locked closed isolation valve inside and one automatic isolation valve outside containment. A simple check valve may not be used as the automatic isolation valve outside containment; or
>
> (4) One automatic isolaton valve inside and one automatic isolation valve outside containment. A simple check valve may not be used as the automatic isolation valve outside containment.
>
> Isolation valves outside containment shall be located as close to the containment as practical and upon loss of actuating power, automatic isolation valves shall be designed to take the position that provides greater safety.

Supply System Response (Contd.)

The scheduled modification conforms to example (4) of GDC 56 in that the check valve inside containment (TIP V-6) meets the requirement for an automatic isolation valve inside containment and TIP V-15 satisfies the requirement for an automatic isolation valve outside containment. As indicated in Table 6.2-16 (attached), TIP V-15 fails in the closed position and will close automatically upon a loss of power due to an F or A signal (high drywell pressure or reactor vessel low low water level).

2. Provide an explanation or reference for determining the meanings of the columns in the Table 6.2-16, Page 6.2-131 attached to the referenced letter.

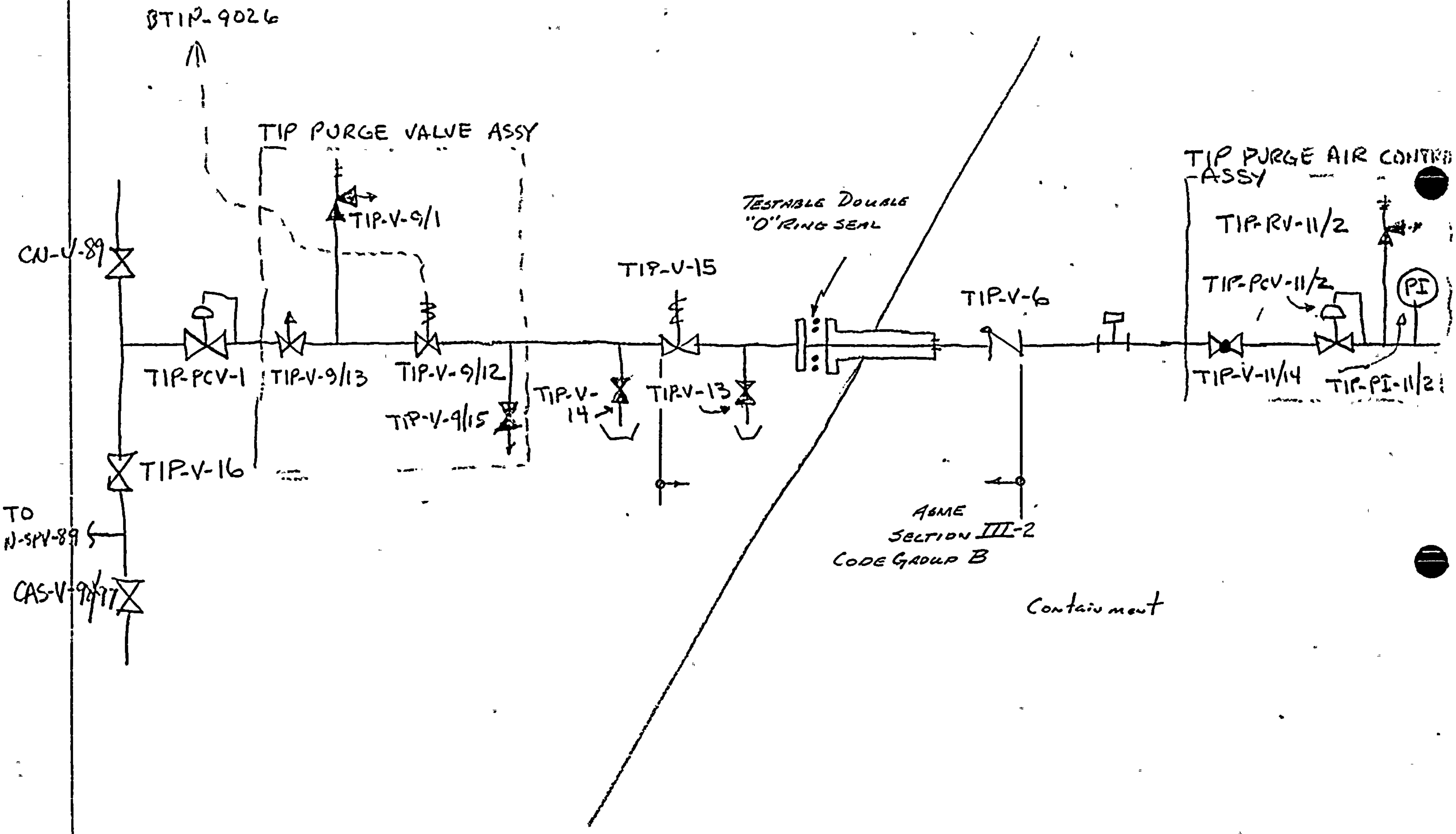
Supply System Response

Table 6.2-16, Page 6.2-131 (attached) is explained on Pages 6.2-133 through 6.2-146a of the WNP-2 Final Safety Analysis Report (FSAR) through Amendment 37.

(Continued)

TABLE 6.2-16

LINE DESCRIPTION	Pent. No.	FSAR Fig. Nos.	GDC	Code Gp. (12)	Valve No.	Valve Type	Loc.	Pwr. to Open (5)	Pwr. to Close (5)	Iso. Sig. (9)	Back Up	Norm Pos. (10)	Shut-down Pos.	Post LOCA	Fail. Pos. (6)	Vlv. Sz. (14)	Close. Time (7) (11)	Dist. to Pent.	Leads to ESF Sys.	Proc. Fld.	Leak Bar. (13)	Term. Zone (13)	Pot. Bypass Leak. (SCFH)	Notes
Air line for testing RHR-V-50A	42d	6.2-31r 3.2-6	56	B	PI-VX-42d	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					PI-VX-216	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing RHR-V-50B	69c	6.2-31r 3.2-6	56	B	PI-VX-69c	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					PI-VX-221	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing RHR-V-41A	61f	6.2-31r 3.2-6	56	B	PI-VX-61f	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					PI-VX-219	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing RHR-V-41B	54Bf	6.2-31r 3.2-6	56	B	PI-VX-54Bf	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					PI-VX-218	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing RHR-V-41C	62f	6.2-31r 3.2-6	56	B	PI-VX-62f	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					PI-VX-220	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing LPCS-V-6	78d	6.2-31r 3.2-7	56	B	LPCS-V-66	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					LPCS-V-67	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing HPCS-V-5	78e	6.2-31r 3.2-7	56	B	HPCS-V-65	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					HPCS-V-68	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing RCIC-V-66	54Aa	6.2-31r 3.2-8	56	B	RCIC-V-740	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7	No	A	Vlvs.	R.B.	No	
					RCIC-V-184	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	7						
Air line for testing WW-DW vacuum relief valves	82e	6.2-31r 9.3-1	56	B	CAS-VX-82e	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	-						
					CAS-V-730	Globe	O	Manual	Manual	-	-	LC	LC	LC	-	1	-	5	No	A	Vlvs.	R.B.	No	44
Air line for maintenance	93	9.3-1 6.2-31t	56	B	-	Pipe Cap	I	-	-	-	-	C	C	C	-	2	-	-	No	A	Cap & Valve	S.B.	No	
					SA-V-109	Gate	O	Manual	Manual	-	-	LC	LC	LC	-	2	-	1						
TIP lines	27A		56	B	TIP-V-1	SO Ball	O	AC	AC	A,F	RM	C	C	C	C	3/8	5	2	No	A	Vlvs.	R.B.	No	29
					TIP-V-7	Shear	O	-	Explosive	43	-	O	O	O	O	3/8	-	2						
	27B		56	B	TIP-V-2	SO Ball	O	AC	AC	A,F	RM	C	C	C	C	3/8	5	2	No	A	Vlvs.	R.B.	No	29
					TIP-V-8	Shear	O	-	Explosive	43	-	O	O	O	O	3/8	-	2						
	27C		56	B	TIP-V-3	SO Ball	O	AC	AC	A,F	RM	C	C	C	C	3/8	5	2	No	A	Vlvs.	R.B.	No	29
					TIP-V-9	Shear	O	-	Explosive	43	-	O	O	O	O	3/8	-	2						
	27D		56	B	TIP-V-4	SO Ball	O	AC	AC	A,F	RM	C	C	C	C	3/8	5	2	No	A	Vlvs.	R.B.	No	29
					TIP-V-10	Shear	O	-	Explosive	43	-	O	O	O	O	3/8	-	2						
	27E		56	B	TIP-V-5	SO Ball	O	AC	AC	A,F	RM	C	C	C	C	3/8	5	2	No	A	Vlvs.	R.B.	No	29
					TIP-V-11	Shear	O	-	Explosive	43	-	O	O	O	O	3/8	-	2						
	27F		56	B	TIP-V-6	Check	~~O~~ I	Process	Process		-	O	C	C	-	~~3/8~~ 1/2	-	1	No	A	Vlvs.	R.B.	No	-
				B	TIRV-15	SO	O	AC	AC	A,F	-	O	O	C	C	1	5	2	NO	A	VlVS.	R.B	NO	-


BTIP-9026
TIP PURGE VALVE ASSY
TIP-V-9/1
CN-V-89
TIP-PCV-1
TIP-V-9/13
TIP-V-9/12
TIP-V-9/15
TIP-V-16
TO N-SPV-89
CAS-V-92/97
TIP-V-15
TIP-V-14
TIP-V-13
Testable Double "O" Ring Seal
TIP-V-6
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ASSY
TIP-RV-11/2
TIP-PCV-11/2
PI
TIP-V-11/14
TIP-PI-11/2