

July 20, 2001

Carl Terry, BWRVIP Chairman  
Niagara Mohawk Power Company  
Post Office Box 63  
Lycoming, NY 13093

SUBJECT: CLARIFICATION TO NRC LETTER REGARDING BWRVIP RESPONSE TO  
BWRVIP-14 FINAL SAFETY EVALUATION (TAC NO. M94975)

Dear Mr. Terry:

By letter dated May 13, 2001, the staff provided to you our findings regarding the staff's review of the July 11, 2000, BWR Vessel and Internals Project (BWRVIP) response to the staff's December 3, 1999, final safety evaluation (FSER) of EPRI report TR-105873, "BWR Vessel and Internals Project, Evaluation of Crack Growth in BWR Stainless Steel Internals (BWRVIP-14)." This letter provides additional clarification in response to questions raised by BWR licensees regarding the staff's conclusions in that letter. In summary, the staff has concluded that:

- the BWRVIP has provided sufficient additional information such that the staff's original concern with the K-dependent crack growth model has been satisfied;
- the staff accepts the methodology described in the July 11, 2000, BWRVIP document on application of the stainless steel crack growth model to plants under normal water chemistry, and for plants using hydrogen water chemistry (HWC) with or without the addition of noble metal (NMCA); and,
- the staff is reviewing the acceptability of the BWRVIP-14 crack growth model to calculate factors of improvement at various electrochemical potentials (ECPs) and HWC availabilities, as shown in Figure 4-1 of the EPRI proprietary report TR-108705, "BWR Vessel and Internals Project, Technical Basis for Inspection Relief for BWR Internal Components with Hydrogen Injection (BWRVIP-62)," dated December 1998.

The staff requests that you incorporate the staff's recommendations, as well as your response to other issues raised in the staff's initial SE and FSER into a revised, final BWRVIP-14 report.

Carl Terry

-2-

Please contact C. E. (Gene) Carpenter, Jr., of my staff at (301) 415-2169, if you have any further questions regarding this subject.

Sincerely,

*/ra/*

William H. Bateman, Chief  
Materials and Chemical Engineering Branch  
Division of Engineering  
Office of Nuclear Reactor Regulation

cc: BWRVIP Service List

Carl Terry

-2-

Please contact C. E. (Gene) Carpenter, Jr., of my staff at (301) 415-2169, if you have any further questions regarding this subject.

Sincerely,

William H. Bateman, Chief  
Materials and Chemical Engineering Branch  
Division of Engineering  
Office of Nuclear Reactor Regulation

cc: BWRVIP Service List

Distribution:

EMCB R/F  
JLarkins  
SDuraiswamy

GMHolahan

MEMayfield  
NCChokshi  
MBMcNeil  
TYChang

WDLanning, R1  
CCasto, R2  
JGrobe, R3  
AHowell, R4

Document Name: C:\Program Files\Adobe\Acrobat 4.0\PDF Output\BWRVIP-14 FSER  
Clarification.wpd

INDICATE IN BOX: "C"=COPY W/O ATTACHMENT/ENCLOSURE, "E"=COPY W/ATT/ENCL, "N"=NO COPY

EMCB:DE	E	EMCB:DE	E	EMCB:DE	E	EMCB:DE	E
CECarpenter:cec		WHKoo:whk		KRWichman:krw		WHBateman:whb	
07/17/2001		07/18/2001		07/20/2001		07/20 /2001	

OFFICIAL RECORD COPY

cc:

Joe Hagan, BWRVIP Vice Chair  
Exelon Corp.  
200 Exelon Way (M/S KSA 3-N)  
Kennett Square, PA 19348

George Vanderheyden, Executive Chair  
Assessment Committee  
Exelon Corp.  
Suite 400  
1400 Opus Place  
Downers Grove, IL 60515-1198

Bill Eaton, Executive Chair,  
Inspection Committee  
Grand Gulf Gen. Mgr., Plant Operations  
Entergy Operations, Inc.  
PO BOX 756, Waterloo Rd  
Port Gibson, MS 39150-0756

H. Lewis Sumner, Executive Chair  
BWRVIP Mitigation Task  
Vice President, Hatch Project  
Southern Nuclear Operating Co.  
M/S BIN B051, PO BOX 1295  
40 Inverness Center Parkway  
Birmingham, AL 35242-4809

George T. Jones, Executive Chair  
Repair Committee  
Vice President, Nuclear Engrg. & Support  
PP&L, Inc.  
M/S GENA61  
2 N 9th St  
Allentown, PA 18101-1139

Robert Carter, EPRI BWRVIP  
Assessment Manager  
Greg Selby, EPRI BWRVIP  
Inspection Manager  
EPRI NDE Center  
P. O. Box 217097  
1300 W. T. Harris Blvd.  
Charlotte, NC 28221

Richard Ciemiewicz, Technical Chair  
Assessment Committee  
Exelon Corp.  
Peach Bottom Atomic Power Station  
(M/S SMB3-6)  
1848 Lay Road  
Delta, PA 17314-9032

Carl Larsen, Technical Chair  
BWRVIP Inspection Task  
Vermont Yankee Nuclear Power Corp.  
P.O. Box 157  
Vernon, VT 05354

John Wilson, Technical Chair  
BWRVIP Mitigation Task  
AmerGen Energy Co.  
Clinton Power Station, M/C T-31C  
P.O. Box 678  
Clinton, IL 61727

Vaughn Wagoner, Technical Chair  
BWRVIP Integration Task  
Carolina Power & Light Company  
One Hannover Square 9C1  
P.O. Box 1551  
Raleigh, NC 27612

Bruce McLeod, Technical Chair  
BWRVIP Repair Task  
Southern Nuclear Operating Co.  
Post Office Box 1295  
40 Inverness Center Parkway  
Birmingham, AL 35201

Tom Mulford, EPRI BWRVIP  
Integration Manager  
Raj Pathania, EPRI BWRVIP  
Mitigation Manager  
Ken Wolfe, EPRI BWRVIP  
Repair Manager  
Electric Power Research Institute  
P. O. Box 10412 3412 Hillview Ave.  
Palo Alto, CA 94303