

November 3, 1999

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

SUBJECT: ERRATA IN REVISED BWRVIP-07 REPORT TABLE 1 (TAC NO. M94959)

Dear Mr. Terry:

By letter dated October 6, 1999, we provided to you a revised Table 1, Core Shroud Reinspection Intervals for Category C Plants, from the Electric Power Research Institute's (EPRI) Report TR-105747, "BWR Vessel and Internals Project, Guidelines for Reinspection of BWR Core Shrouds (BWRVIP-07)." However, there was a typographical error in the "Percent Cracking" column where the numbers were inadvertently reversed. The attached Table 1 corrects this mistake.

We regret any inconvenience this may have caused.

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

Sincerely,

original signed by:

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

Enclosure: As stated

cc: See next page

ARC FILE CENTER COPY

DISTRIBUTION:

EMCB R/F
PUBLIC
File Center
ACRS

JRStrosnider
RHWessman
KRWichman

GHolahan
MEMayfield
TYChang

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

Document Name: G:\BWRVIP\BWRVIP07 Table 1 Rev2 Errata.WPD

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

EMCB:LPM	E	EMCB:SLS	E	EMCB:BC	E
CECarpenter	<i>cc</i>	RAHermann	<i>TT</i>	WHBateman	<i>WHS</i>
10/22/1999		11/2/1999		11/13/1999	

OFFICIAL RECORD COPY

*1999
90-192*

DF03

PDR To PRP



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

November 3, 1999

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

SUBJECT: ERRATA IN REVISED BWRVIP-07 REPORT TABLE 1 (TAC NO. M94959)

Dear Mr. Terry:

By letter dated October 6, 1999, we provided to you a revised Table 1, Core Shroud Reinspection Intervals for Category C Plants, from the Electric Power Research Institute's (EPRI) Report TR-105747, "BWR Vessel and Internals Project, Guidelines for Reinspection of BWR Core Shrouds (BWRVIP-07)." However, there was a typographical error in the "Percent Cracking" column where the numbers were inadvertently reversed. The attached Table 1 corrects this mistake.

We regret any inconvenience this may have caused.

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

Sincerely,

A handwritten signature in cursive script that reads "William H. Bateman".

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

Enclosure: As stated

cc: See next page

cc:

Bill Eaton, Executive Chair
Inspection Committee
Entergy Operations, Inc.
PO Box 756, Waterloo Rd
Port Gibson, MS 39150-0756

H. Lewis Sumner, Executive Chairman
BWRVIP Mitigation Task
Southern Nuclear Operating Co.
M/S BIN B051, PO Box 1295
40 Inverness Center Parkway
Birmingham, AL 35201

Harry P. Salmon, Executive Chairman
BWRVIP Integration Task
New York Power Authority
123 Main St., M/S 11 D
White Plains, NY 10601-3104

George T. Jones, Executive Chair
BWRVIP Repair Task
Pennsylvania Power & Light, Inc.
M/S GEN A 61
2 N 9th Street
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

Joe Hagan, BWRVIP Vice Chairman
PEPCO Energy Co.
MC 62C-3
965 Chesterbrook Blvd
Wayne, PA 19807-5691

Steve Lewis, Technical Chairman
BWRVIP Assessment Task
Entergy
P. O. Box 756
Waterloo Road
Port Gibson, MS 39150

Carl Larsen, Technical Chairman
BWRVIP Inspection Task
P.O. Box 157
Vernon, VT 05354

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

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

Bruce McLeod, Technical Chairman
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

James P. Pelletier, BWRVIP Liaison
to EPRI Nuclear Power Council
Nebraska Public Power District
1200 Prospect Avenue
PO Box 98
Brownville, NE 68321-0098

**Core Shroud Reinspection Intervals
for Category C Plants (in years)**

Percent Cracking ^(1,2)	Stress ⁽³⁾ = 1 ksi		Stress ⁽³⁾ = 3 ksi		Stress ⁽³⁾ = 6 ksi	
	Limit Load	LEFM ⁽⁴⁾	Limit Load	LEFM ⁽⁴⁾	Limit Load	LEFM ⁽⁴⁾
$x < 10$	10.0	10.0	10.0	10.0	10.0	10.0
$10 \leq x < 20$	10.0	10.0	10.0	10.0	10.0	6.0
$20 \leq x < 25$	6.0	6.0	6.0	6.0	6.0	6.0
$25 \leq x < 30$	6.0	6.0	6.0	6.0	6.0	⁽⁶⁾
$x \geq 30$	⁽⁶⁾					

Notes:

1. Length of weld inspected must be at least 50 percent of the weld circumference
2. Cracking is defined as the total length of as-found cracks as a percentage of the total length inspected for each weld. If the sizing uncertainty for the inspection method used exceeds (0.4" + 0.5°) in length at a flaw end, the amount above this should be included in the amount of cracking. Crack lengths should be rounded up to the next whole number.
3. Stress values are for faulted loading conditions. Interpolation between stress values is acceptable.
4. Applies to welds with cracking ≥ 10 percent where neutron fluence is greater than 3×10^{20} n/cm², and less than 5×10^{20} n/cm² ($E > 1\text{MeV}$). For fluences exceeding 5×10^{20} n/cm², a plant-specific analysis is required to be submitted to the NRC.
5. Linear extrapolation of the reinspection intervals is permitted up to a value of 10 ksi. Values should be capped (or rounded down) at values consistent with the approach in the above table.
6. Plant-specific analysis is required.

ENCLOSURE