



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

May 6, 2008

Ms. Shirley J. Olinger, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

Mr. William S. Elkins, Project Director
Bechtel National, Inc.
2435 Stevens Center Place, MSIN: H4-02
Richland, Washington 99354

Re: *Pipe Stress Design Criteria including "Pipe Stress Criteria" and "Span Method Criteria,"*
24590-WTP-DC-PS-01-001, Revision 6

References: See page 2

Dear Ms. Olinger and Mr. Elkins:

The Department of Ecology reviewed the document *Pipe Stress Design Criteria including "Pipe Stress Criteria" and "Span Method Criteria,"* 24590-WTP-DC-PS-01-001, Revision 6, (Reference 1). Our review found it to be thorough, comprehensive, and acceptable for use in design of Waste Treatment and Immobilization Plant piping systems. The document provides design criteria in accordance with American Society of Mechanical Engineers (ASME) Code B31.3 requirements. For special cases where the requirements of ASME Code B31.3 cannot be followed, the document refers to other industry accepted ASME Code requirements that are considered appropriate.

The document will be incorporated in the Dangerous Waste Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant, Appendix 7.5, during the next modification. In addition, Operating Unit 10 Compliance Schedule, Appendix 1.0, Item 40, will be marked "complete." Incorporation of this document into the permit closes out the last open item addressed in References 2 and 3 to resolve Ecology's Notice of Non-Compliance (Reference 4).

If there are any questions, contact me at 509-372-7882 or Ed Fredenburg at 509-372-7899.

Sincerely,

Brenda Becker-Khaleel
WTP Permit Writer
Nuclear Waste Program

bbk/jc

cc: See page 2

RECEIVED
MAY 09 2008
EDMC

Ms. Olinger and Mr. Elkins
May 6, 2008
Page 2

References:

1. Letter 08-ESQ-017, dated February 4, 2008, from S. J. Olinger, USDOE-ORP and W. S. Elkins, BNI, to J. Manning, ECY, "Submittal of Waste Treatment and Immobilization Plant (WTP) Pipe Stress Design Criteria Document, Compliance Schedule Item 40" 00716094
2. Letter 05-ED-020, dated March 16, 2005, from R. J. Schepens, USDOE-ORP, to M. A. Wilson, ECY, "Response to the State of Washington Department of Ecology (Ecology) Concerns Regarding American Society of Mechanical Engineers (ASME) B31.3 Process Piping Code" 00641075
3. Letter dated January 7, 2005, from S. L. Dahl, ECY, to R. J. Schepens, USDOE-ORP, and J. Henschel, BNI, "Resolution of Notice of Non-Compliance for Failure to Consider Corrosion Allowance in Piping"
4. Letter dated July 2, 2004, from S. L. Dahl, ECY, to R. J. Schepens, USDOE-ORP and J. Henschel, BNI, "Notice of Non-Compliance for Failure to Consider Corrosion Allowance in Piping Design as Required by American Society of Mechanical Engineers (ASME) Code B31.3"

cc electronic:

- | | |
|------------------------|-----------------------|
| Dave Bartus, EPA | Peggy Fisher, BNI |
| Nick Ceto, EPA | Stan Hill, BNI |
| John Eschenberg, USDOE | Dennis Klein, BNI |
| Peter Garcia, USDOE | Sandi Murdock, BNI |
| Lori Huffman, USDOE | Suzette Thompson, FHI |
| Tony McKarns, USDOE | Phil Peistrup, WGI |
| Gae Neath, USDOE | Stuart Harris, CTUIR |
| Don Sommer, USDOE | Gabriel Bohnee, NPT |
| William Taylor, USDOE | Russell Jim, YN |
| Julie Colby, BNI | Susan Leckband, HAB |
| Brad Erlandson, BNI | Ken Niles, ODOE |

- cc: Administrative Record: Waste Treatment Plant ✓
 Environmental Portal
 Hanford Operating Record General File
 USDOE-ORP Correspondence Control
- H-0-8

RECEIVED
 MAY 14 2008
 EDMC