

71-9168



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November 6, 2003
E&L-045-03

Ms. Julia M. Barto, Project Manager
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555

References: 1. August 5, 2003 letter to P. Paquin, Duratek from J. M. Barto, US NRC
2. November 26, 2002 Letter (E&L-056-02) to E. William Brach, US NRC from P. Paquin, Duratek
3. February 5, 2003 letter to P. Paquin, Duratek from J. M. Barto, US NRC
4. April 4, 2003 Letter (E&L-012-03) to Julia M. Barto, US NRC from P. Paquin, Duratek

Dear Ms. Barto:

Subject: Response to Request for Additional Information for Model No. 8-120B, CofC No. 9168

In response to your Request for Additional Information (RAI) (Reference 1), Duratek respectfully re-submits its application for revision to the 8-120B Safety Analysis Report (SAR) (Reference 2). This application has been amended to address the comments provided in the RAI.

The following documents are included as attachments to this submittal:

1. Guide page for incorporating Revision 6 into the Model CNS 8-120B Safety Analysis Report.
2. SAR Change Pages
 - Title Page: Revision 6 title page for the SAR dated November 2003.
 - TOC: A revised Table of Contents for the SAR dated November 2003
 - Drawings: Revision 12 of SAR Drawing No. C-110-E-0007 was previously transmitted under Reference 2 and is therefore not included in this submittal. Please reference Revision 12 in the approval of this application.

NIMSS01

➤ Chapter 2, Structural:

- Page 2-105, has been marked as Revision 6 dated November 2003, is being resubmitted with no additional changes.
- Pages 2-106 and 2-130 have been revised.
- Appendix 2.10.6 – ST-432, Rev. 1.
- Appendix 2.10.7 – ST-446, Rev. 0.

➤ Chapter 4, Containment: As a result of the initial RAI (Reference 3), Chapter 4 was revised to correct the equations of $L_{MIX}(T)$ on pages 4-17 and 4-25 for R-12 and R-134a test gases, respectively. This section, marked as Revision 6 dated November 2003, is being resubmitted with no additional changes.

➤ Chapter 8, Acceptance Tests and Maintenance: This section, marked as Revision 6 dated November 2003, is being resubmitted with no additional changes.

As noted previously, no change to packaging contents is being requested, and no changes to the operating section (Chapter 7) are required as a result of the proposed changes.

Also included as Enclosures in this submittal are the following:

- 1. ANSYS modeling information on a data CD to facilitate your review of the structural analyses. ***This data is for reviewer information only and is not intended to be included in the SAR.*** The documents can be opened in Microsoft® Word.
- 2. Thermal calculation, TH-021, Steady State Thermal Analyses of the 8-120B Cask Using a 2-D Finite Element Model is also included to facilitate your review. ***This calculation is for reviewer information only and is not intended to be included in the SAR.***
- 3. Duratek responses to NRC's RAI (Reference 3).

Should you or members of your staff have questions about this submittal, please contact me at (803) 758-1824.

Sincerely,



Patrick L. Paquin
General Manager – Engineering and Licensing

Enclosures: As stated (1 copy)

Attachments: As stated (5 copies)