



Duratek™

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71-9322

16 March 2006
E&L-010-06

ATTN: Document Control Desk
E. William Brach, Director
Spent Fuel Project Office
Office of Nuclear Material Safety and Safeguards, NMSS
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Mr. Brach:

Subject: Request for Special Package Authorization for the LACBWR Reactor Pressure Vessel Package
Reference: Request for Additional Information dated 21 February 2006 (Docket 71-9322, TAC L23931)

Duratek, Inc. respectfully submits proprietary attachments concerning the La Crosse Boiling Water Reactor (LACBWR) Reactor Pressure Vessel Package (RPVP). Duratek requests that these attachments be withheld from public disclosure under the provisions of 10 CFR 2.390. The attachments present detailed calculations which form the basis of the structural evaluation in the Safety Analysis Report of the LACBWR RPVP submitted by Duratek. These calculations were revised in response to the RAI (Ref. 1). Included is an affidavit, as stipulated in 10 CFR 2.390, providing the reason for withholding these items.

There are three attachments to this letter. Each attachment is listed below:

- Attachment 1 AFFIDAVIT CONCERNING CONFIDENTIAL INFORMATION AND TRADE SECRETS
- Attachment 2 Proprietary Calculation – ST-517, Rev.1: Structural Analyses of the LACBWR RPV Package Under Various Drop Scenarios
- Attachment 3 CD – Proprietary Calculation – ST-517, Rev.1, Appendix 5 (data files)

Should you or members of your staff have questions about the request, please contact Mark Whittaker at (803) 758-1898.

Sincerely,

Patrick L. Paquin
General Manager – Engineering & Licensing

Attachments: As stated

Nmss01

**AFFIDAVIT
SUBMITTED BY DURATEK SERVICES INC.
CONCERNING CONFIDENTIAL INFORMATION AND TRADE SECRETS**

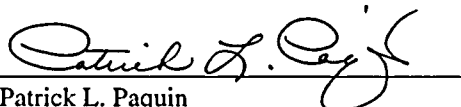
STATE OF SOUTH CAROLINA]
] ss.
COUNTY OF RICHLAND]

I, Patrick L. Paquin, depose and say that I am duly authorized to make this affidavit, and have reviewed or caused to have reviewed the information which is identified below as proprietary. The following document and corresponding data files contain proprietary information that should be withheld from public disclosure:

ST-517, Rev. 1: Structural Analyses of the LACBWR RPV Package Under Various Drop Scenarios

I have personal knowledge of the criteria and procedures utilized by Duratek in designating information as a trade secret or as confidential information of a commercial or financial nature. These calculations contain unique information and methods that have been developed by the Duratek staff for the evaluation of transportation packagings. These methods are considered confidential information that includes Company trade secrets incorporated into such evaluation processes. The proprietary information submitted to the Commission contains the type of information Duratek regards as protected and of the type not to be disclosed to unauthorized persons.

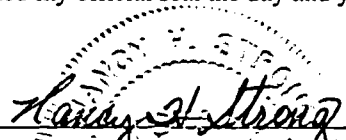
The information designated here as proprietary is not available from public sources. Public disclosure of this information would cause substantial harm to the competitive position of Duratek. The Company has made substantial investments in salaries and capital equipment and has committed to refine and improve Duratek's radioactive waste management system. Competitors of Duratek would have great difficulty in duplicating the methods developed by Duratek, due not only to the financial investment of Duratek, but also to the unique skills, talents, and expertise of Duratek employees who have developed these methods. Disclosure of these methods could cause Duratek to lose the financial opportunity and business associated with other projects similar in nature.

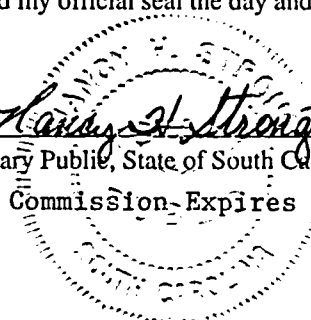

Patrick L. Paquin
General Manager, Engineering & Licensing

STATE OF SOUTH CAROLINA]
] ss.
COUNTY OF RICHLAND]

On this 16th day of March 2006, before me, a Notary Public in and for the State of South Carolina, duly commissioned and sworn, personally appeared Patrick Paquin, General Manager, Engineering & Licensing for Duratek, and on oath stated that he was authorized to make this affidavit on behalf of the corporation.

IN WITNESS WHEREOF, I have set my hand and affixed my official seal the day and year first above written.


Notary Public, State of South Carolina
My Commission Expires July 21, 2009



PROPERTY OF DURATEK INC. AND ITS SUBSIDIARIES

DESIGN DOCUMENT COVER SHEET

DOCUMENT ID NUMBER: ST-517 REVISION NUMBER: 1

PROJECT NUMBER: 163041.0000.50

SECURITY STATUS: PROPRIETARY: X NON-PROPRIETARY:

RETENTION PERIOD: Life of the Project + 1 year

TITLE: Structural Analysis of the LACBWR RPV Package Under Various Drop Scenarios

PREPARED BY: *W. J. Baig* DATE: 3/13/06

TITLE: Chief Engineer

REVIEWED BY: *Carl H. Mj* DATE: 3/15/06

TITLE: Principal Engineer

REVISION NOTES:

- Added Appendix 2 that documents the sensitivity study of the finite element model.
- Renumbered the Appendices.
- Added the verbage to reference Appendix 2.
- Corrected a few typographical errors.

DOCUMENT CONTROL

Received By: *Melissa Childs* Date: 3/15/06

Document Dated From: 3/13/06 To: 3/15/06

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DESIGN DOCUMENT REVIEW CHECKLIST

Document ID No.: ST-517 Revision No.: 1

ITEM	YES	N/A *
1. The purpose or objective is clear and consistent with the analysis.	✓	
2. Design Inputs such as design bases, regulatory requirements, codes, and standards are identified and documented.	✓	
3. Effect of design package on compliance with the Safety Analysis Report or Certificate of Compliance identified and documented.		✓
4. References are complete and accurate.	✓	
5. Latest version of the drawings is used, and the revision numbers are correct on the list of drawings.	✓	
6. Assumptions are reasonable, and the list of assumptions is complete and appropriate.	✓	
7. Assumptions that must be verified as the design proceeds have appropriately identified.	✓	
8. Analysis methodology is appropriate, and correct analysis method used.	✓	
9. Correct values used from drawings?	✓	
10. Answers and units correct?	✓	
11. Summary of results matches calculations?	✓	
12. Material properties properly taken from credible references?	✓	
13. Figures match design drawings?	✓	
14. Computer input complete and properly identified?	✓	
15. Conclusions are consistent with the analysis results.	✓	
16. Documentation of all hand calculations attached?	✓	
17. Meeting minutes of the Design Review?		✓

* Not Applicable, Explain

3. The calculations form the basis for the SAR.
17. No design review meeting was needed for the revision of this document.

Independent Reviewer 

Date 3/15/06

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DESIGN DOCUMENT REVIEW METHOD CHECKLIST

Document ID No.: ST-517 Revision No.: 1

ITEM	
1. Alternate or simplified computational method.	
2. Comparison of results to other calculations of a similar nature.	
3. Numerical repetition of the calculations.	
4. Comparison of calculations with experimental results.	
5. Other (specify) Review of the results and comparison with engineering judgement.	
6. Comments:	

Independent Reviewer *Paul H. Wynn*

Date 3/15/06