

January 15, 2008

U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852-2738

Attn: Document Control Desk

Subject: Submittal of Consolidated NAC-LWT Safety Analysis Report, Revision 38

Docket No. 71-9225

Reference: Model No. NAC-LWT Package, Certificate of Compliance (CoC)  
No. 9225, Revision 45, U.S. Nuclear Regulatory Commission (NRC),  
October 26, 2007

NAC International (NAC) has consolidated all approved but not yet incorporated amendments to the above referenced CoC resulting in Revision 38 of the NAC-LWT Safety Analysis Report (SAR). Enclosed please find one copy of the NAC-LWT SAR, Revision 38 for your file and use.

Revision 38 of the NAC-LWT SAR incorporates the following NRC-approved NAC-LWT amendments, supplemental information and license drawing revisions:

1. LWT-05F – 12/15/05 (license drawing revisions);
2. LWT-06A – 4/17/06 (ANSTO);
3. LWT-06B – 5/26/06 (TPBAR);
4. LWT-06C – 6/9/06 (ANSTO RAI Response); 6/15/06 (ANSTO RAI Response Clarification);
5. LWT-06E – 8/18/06 (TPBAR Supplement);
6. LWT-06F – 8/22/06 (TPBAR Supplement); 10/12/06 (Rev. 43 LWT CoC Draft);
7. LWT-06G – 11/17/06 (TRIGA);
8. LWT-07A – 3/2/07 (TRIGA Supplement);
9. LWT-07B – 5/1/07 (Petten);
10. LWT-07C – 5/3/07 (TRIGA RAI Response);
11. LWT-07D – 5/22/07 (Petten Supplement); 6/22/07 (TRIGA RAI Response Supplement); 7/23/07 (Rev. 44 LWT CoC Draft);
12. LWT-07F – 10/12/07 (Petten RAI Response).

Revision 38 is a general revision of the NAC-LWT SAR with all pages identified as Revision 38 and all revision bars removed. In addition to the above, some editorial/formatting changes were made to the NAC-LWT SAR. These changes are described in detail in Attachment 1 to this transmittal letter. None of the editorial/formatting changes resulted in change of the NRC approved information.



Nuclear Regulatory Commission  
January 15, 2008  
Page 2

If you have any comments or questions, please contact me on my direct line at 678-328-1274.

Sincerely,

A handwritten signature in black ink, appearing to read 'Anthony L. Patko'.

Anthony L. Patko  
Director, Licensing  
Engineering

Attachment 1:           List of Editorial/Formatting Changes, NAC-LWT SAR, Rev. 38

Enclosure

Attachment 1List of Editorial/Formatting Changes, NAC-LWT SAR, Rev. 38

- Reformatted List of Effective Pages to list pages by section rather than individually.
- Eliminated the Master Table of Contents.
- List of Drawings, page 1-iii – added asterisk and note explaining why two different revisions of Drawing No. 315-40-03 are included in the SAR.
- MS, lbs, and +Large designations have been made consistent throughout Chapter 2 (unless these items are part of an equation or a picture that cannot be changed).
- Page 2.6.12-50, the  $P$  = the line load equation – changed (0.98) to (0.098) to reflect aluminum density shown on page 2.6.12-51.
- Page 3.4-69, Table 3.4-6, Condition 1 – last row of table, 2<sup>nd</sup> column – replaced superscript 3 with  $<363^3$ ; Condition 2 – last row of table, 2<sup>nd</sup> column – replaced superscript 3 with  $<363^3$
- Page 4.1-1, Section 4.1, 4<sup>th</sup> sentence – added in TPBAR amendment LWT-06B; standard port cover subsequently deleted in TRIGA amendment LWT-06G.
- Table 4.2-2, Allowable Release Rates for NAC-LWT Cask Contents: Normal Conditions: Row 4, last column – changed “130E-05” to “1.30E-05”; Row 7, 2<sup>nd</sup> column – changed “56.613” to “53.613”; Row 10 & Row 11, last two columns – reversed information in Row 10 & Row 11 to match calculation.
- Revised table column headers on Tables 4.5.-1 through 4.5-21 to reflect the units used (Tables 4.5-23 through 4.5-25 had been corrected previously).
- Changed the page numbering, the section numbering and the subsequent numbering of figures and tables in Chapters 5 and 6 to reduce the amount of text flow that will be generated by upcoming licensing amendments.
- Eliminated all section numbering beyond 5 levels. These sections are now “subheaders.” Any references to these sections are now made by subheader title instead of by number or by the 5-level section number.
- Table 5.1.1-1, Type, Form, Quantity and Potential Sources of Design Basis Fuel, page 5.1.1-6 – deleted PWR rods fuel type and accompanying information since this fuel type was deleted from the LWT CoC, Revision 45.
- Section 7.2.1, Procedures for Wet Unloading of LWR Fuel, item 1 – deleted the word “empty.”
- Section 7.2.2, Procedures for Wet Unloading of Metallic Fuel, item 1 – deleted the word “empty.”

Attachment 1 (continued)

- Section 7.2.3, Procedure for Wet Unloading of MTR, TRIGA, DIDO, ANSTO or PULSTAR Fuel Basket Contents, item 1 – added the word “transport.”
- Section 7.2.4, Procedure for Dry Unloading of MTR, TRIGA, DIDO, ANSTO or PULSTAR Fuel Basket Contents, item 1 – added the word “transport.”
- Table 6.3.9-2, removed empty column to improve the flow of the table.
- Corrected subscripts and superscripts where needed to correct text in Chapters 2, 4, and 6.
- Changed abbreviation for weight percent from ‘w/o’ to ‘wt %’ throughout SAR for editorial consideration.
- Rotated image in Figure 2.6.7-13 for ease of reading comprehension.
- Corrected the alignment of numbers in equations in Chapter 2 for ease of comprehension.