

NAC-LWT SAR, Revision LWT-13C

NRU/NRX Amendment

Drawing Revision

July 19, 2013

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

Attn: Document Control Desk

Subject: Submission of a Request for an Amendment of Certificate of Compliance (CoC) No. 9225 for the NAC-LWT Cask to Revise a License Drawing to Correct a Unit of Measure in the CoC

Docket No. 71-9225 TAC No. L24697

- Reference:
1. Model No. NAC-LWT Package, U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 9225, Revision 57, August 9, 2012
 2. Safety Analysis Report (SAR) for the NAC Legal Weight Truck Cask, Revision 41, NAC International, April 2010
 3. ED20120125, Submission of a Request for an Amendment of Certificate of Compliance (CoC) No. 9225 for the NAC-LWT Cask to Incorporate AECL NRU/NRX fuel as Authorized Content, October 26, 2012
 4. NRC Letter, Request for Additional Information for Review of the Certificate of Compliance No. 9225, for the Model No. NAC-LWT Package, December 20, 2012
 5. ED20130001, Submission of NAC Responses to the NRC's Request for Additional Information to NAC Amendment Request for Certificate of Compliance (CoC) No. 9225 for the NAC-LWT Cask to Incorporate AECL NRU/NRX fuel as Authorized Content, January 14, 2013

NAC International (NAC) hereby submits a request to revise NRU/NRX License Drawing LWT 315-40-173 and to update the list of drawings in the LWT-SAR and CoC. Due to procurement and fabrication activities for the NRU/NRX fuel basket, two changes needed to be made. One was revising a bill of materials callout for SPEC SA249 to refer to new Note #9 and the other was to revise a weld callout. In addition, there is a typographical error on Page 19 of 31 in the CoC for the "Maximum Weight of Contents per Tube". The correct unit of measure is "lb/tube" and not "g".

This submittal package includes one hard copy of this transmittal letter and Revision LWT-13C changed pages to the Reference 2 SAR and Reference 3 & 5 amendment request via Enclosure 4. Enclosure 1 contains a brief summary of the changes to the SAR for Revision LWT-13C. Consistent with NAC administrative practice, this proposed

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Page 2

SAR revision is numbered to uniquely identify the applicable changed pages. Revision bars mark the SAR text changes on the Revision LWT-13C pages. Enclosure 2 to this transmittal letter lists all of the drawing changes and Enclosure 3 lists all of the CoC changes.

In order to better facilitate the review process, NAC is providing the Revision LWT-13C change pages with appropriate backing pages. Consequently, a number of LWT-12D, 13A and/or Revision 41 pages are included. In accordance with NAC's administrative practices, upon final acceptance of this application, the LWT-12D, LWT-13A and LWT-13C changed pages will be reformatted and incorporated into the next revision of the NAC-LWT SAR.

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

Sincerely,

 *W. Fowler* for
T. Patko

Anthony L. Patko
Director, Licensing
Engineering

Enclosures:

- Enclosure 1 – List of Changes, NAC-LWT SAR, Revision LWT-13C, NRU/NRX Amendment Drawing Revision
- Enclosure 2 – List of Drawing Changes, NAC-LWT SAR, Revision LWT-13C, NRU/NRX Amendment Drawing Revision
- Enclosure 3 – Proposed Changes for Revision 58 of Certificate of Compliance No. 9225 for the NAC-LWT Cask, NAC-LWT SAR, Revision LWT-13C, NRU/NRX Amendment Drawing Revision
- Enclosure 4 – SAR Page Changes and LOEP, No. 9225 for NAC-LWT Cask, NAC-LWT SAR, Revision LWT-13C, NRU/NRX Amendment Drawing Revision

Enclosure 1

List of Changes

NAC-LWT SAR, Revision LWT-13C

NRU/NRX Amendment

Drawing Revision

List of Changes, NAC-LWT SAR, Revision LWT-13A

Note: The List of Effective Pages and the Chapter Tables of Contents, including the List of Figures, the List of Tables, and the List of Drawings, were revised as needed to incorporate the following changes.

Chapter 1

- Page 1-iv, listing for drawing 315-40-173 was updated to Revision 1.

Chapter 2

- No changes.

Chapter 3

- No changes.

Chapter 4

- No changes.

Chapter 5

- No changes.

Chapter 6

- No changes.

Chapter 7

- No changes.

Chapter 8

- No changes.

Chapter 9

- No changes.

Enclosure 2

List of Drawing Changes

NAC-LWT SAR, Revision LWT-13C

NRU/NRX Amendment

Drawing Revision

List of Drawing Changes, NAC-LWT SAR, Revision LWT-13C

Drawing 315-40-173, Revision 1

Sheet 1:

1. B.O.M., Item 14, Revise SPEC to "See Note 9"; was "SA249".
2. Add Note 9 as follows: "304 ST STL MEETING AT A MINIMUM, THE DIMENSIONAL, PHYSICAL (TENSILE, YIELD, ELONGATION), AND CHEMICAL REQUIREMENTS OF SA249"
3. Zone F6/F7, Revise weld callout to "(1/8) groove weld, seal weld other side, all around, TYP (2)"; **was** "(1/8) groove weld, all around, TYP (2)".

Enclosure 3

Proposed Changes for Revision 58 of Certificate of Compliance

No. 9225 for NAC-LWT Cask

NAC-LWT SAR, Revision LWT-13C

NRU/NRX Amendment

Drawing Revision

Drawings (revised)

CoC Page 4 of 31:

LWT 315-40-173, Rev. 1 (Sheets 1-2)

Basket Weldment, NRU/NRX

CoC Sections (revised)

CoC Page 19 of 31:

5.(b)(1) Type and form of material (continued)

(xix) Undamaged NRU or NRX fuel assemblies as specified below:

| Parameter | NRU (HEU) | NRU (LEU) | NRX |
|---|---------------|---------------|---------------|
| Maximum Heat Load per Package (W) | 640.0 | | |
| Maximum Heat Load per Tube (W) | 35.6 | | |
| Maximum Weight of Contents per Tube (lb/tube) | 20.0 | | |
| Maximum ²³⁵ U per rod (g) | 43.24 | 43.68 | 79.05 |
| Maximum U per Rod (g) | 48 | 230 | 87 |
| Minimum Cool Time (yr) | 19 | 3 | 18 |
| Maximum burnup (MWd/assembly or wt% ²³⁵ U Depletion | 364.0 87.4 | 363.0 83.6 | 375.0 85.1 |

Enclosure 4

SAR Page Changes and LOEP

No. 9225 for NAC-LWT Cask

NAC-LWT SAR, Revision LWT-13C

NRU/NRX Amendment

Drawing Revision

July 2013

Revision LWT-13C

NAC-LWT

Legal Weight Truck Cask System

SAFETY ANALYSIS REPORT

Docket No. 71-9225



Atlanta Corporate Headquarters: 3930 East Jones Bridge Road, Norcross, Georgia 30092 USA
Phone 770-447-1144, Fax 770-447-1797, www.nacintl.com

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* Packaging Unit Nos. 1, 2, 3, 4 and 5 are constructed in accordance with this revision of drawing.

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| 315-40-139 | | Rev 1 | Legal Weight Truck Transport Cask Assy, ANSTO Fuel |
| 315-40-140 | Sheets 1 - 2 | Rev 1 | Weldment, 7 Cell Basket, Top Module, ANSTO Fuel |
| 315-40-141 | Sheets 1 - 2 | Rev 1 | Weldment, 7 Cell Basket, Intermediate Module, ANSTO Fuel |
| 315-40-142 | Sheets 1 - 2 | Rev 1 | Weldment, 7 Cell Basket, Base Module, ANSTO Fuel |
| 315-40-145 | | Rev 0 | Irradiated Hardware Lid Spacer, LWT Cask |
| 315-40-148 | | Rev 0 | Legal Weight Truck Transport Cask Assembly, ANSTO-DIDO Combination Basket |
| 315-40-170 | | Rev 1 | LWT Transport Cask Assy., AECL NRU/NRX Components |
| 315-40-172 | Sheets 1 - 2 | Rev 0 | LID Assembly, NRU/NRX |
| 315-40-173 | Sheets 1 - 2 | Rev 1 | Basket Weldment, NRU/NRX |
| 315-40-174 | | Rev 0 | Basket Spacer, NRU/NRX |
| 315-40-175 | | Rev 1 | Caddy Assembly, NRU/NRX |

Security-Related Information
Figure Withheld Under 10 CFR 2.390

| | | | | | | | |
|--|--|--|--|---|--------------------|---------|----------------------------|
| UNLESS OTHERWISE STATED | | | |  | | | |
| EXPERIENCE AND TRAINING SHALL BE PERMANENT | | | | GROUP | NAME | DATE | BASKET WELDMENT NRU/NRX |
| ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | PREPARED BY | <i>De. Naitt</i> | 7/15/13 | |
| ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | CHECKED BY | <i>[Signature]</i> | 7/15/13 | |
| ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | PROJECT MANAGER | <i>[Signature]</i> | 7/15/13 | |
| ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | LICENSING | <i>[Signature]</i> | 7/15/13 | |
| UNLESS OTHERWISE STATED, ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | LICENSING | <i>[Signature]</i> | 7/15/13 | PROJECT 315-40 |
| UNLESS OTHERWISE STATED, ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | QUALITY | <i>[Signature]</i> | 7/17/13 | DRIVING 173 |
| UNLESS OTHERWISE STATED, ALL WELDERS SHALL BE QUALIFIED TO THE PROJECT | | | | LICENSE | | | SCALE N.T.S. WEIGHT N/A |
| | | | | | | | SH 1 OF 2 7/30/13 |

Security-Related Information
Figure Withheld Under 10 CFR 2.390

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|  NAC INTERNATIONAL | | |
| BASKET WELDMENT, NRU/NRX | | |
| PROJECT | 315-40 | DRAWING |
| SCALE | N.T.S. | WEIGHT N/A |
| | | DR 2 OF 2 1/12/2013 |
| | | REV 1 |