

August 13, 2008

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

Attn: Document Control Desk

Subject: Supplement to Request for Authorization to Use Updated License  
Drawings with Dimensional Detail Clarification for TRIGA Baskets in the  
NAC-LWT Cask

Docket No. 71-9225

- Reference:
1. Safety Analysis Report (SAR) for the NAC Legal Weight Truck Cask, Revision 38, NAC International, November 2007
  2. Model No. NAC-LWT Package, U.S. Nuclear Regulatory Commission (NRC) Certificate of Compliance (CoC) No. 9225, Revision 48, July 9, 2008
  3. Request for Authorization to Use Updated License Drawings for TRIGA Baskets in the NAC-LWT Cask, NAC International, July 1, 2008
  4. Request for Authorization to Use Updated License Drawings with Dimensional Detail Clarification for TRIGA Baskets in the NAC-LWT Cask, NAC International, August 11, 2008

NAC International (NAC) hereby supplements Reference 4 to include the use of updated MTR basket drawings addressing the same issues presented in Reference 3. NAC is submitting the drawings listed below as a supplement to Reference 4 and is requesting authorization to use MTR baskets manufactured in accordance with the updated MTR basket drawings in the NAC-LWT cask.

- 325-40-045, Rev. 5, Weldment, 7 Element Basket, 42 MTR Fuel Base Module
- 315-40-046, Rev. 5, Weldment, 7 Element Basket, 42 MTR Fuel Intermediate Module
- 325-40-047, Rev. 5, Weldment, 7 Element Basket, 42 MTR Fuel Top Module
- 325-40-049, Rev. 5, Weldment, 7 Element Basket, 28 MTR Fuel Base Module
- 315-40-050, Rev. 5, Weldment, 7 Element Basket, 28 MTR Fuel Intermediate Module
- 325-40-051, Rev. 5, Weldment, 7 Element Basket, 28 MTR Fuel Top Module
- 325-40-090, Rev. 3, Weldment, 7 Element Basket, 35 MTR Fuel Base Module
- 315-40-091, Rev. 3, Weldment, 7 Element Basket, 35 MTR Fuel Intermediate Module
- 325-40-092, Rev. 3, Weldment, 7 Element Basket, 35 MTR Fuel Top Module



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During determination of the extent of the condition described in Reference 3, NAC identified the MTR basket drawings as having similar issues of minor inconsistencies. These drawings have been revised and are included in this package. The revised drawings show the requested changes. Attachment 1 to this letter contains a list of all drawing changes made to the applicable MTR basket drawings.

Authorization is requested for a 12-month period to use TRIGA and MTR baskets manufactured in accordance with the revised drawings in the NAC-LWT cask. Authorization for the 42 MTR fuel base, intermediate and top basket modules (drawing Nos. 315-40-045, Rev. 5; 315-40-046, Rev. 5; and 315-40-047, Rev. 5) is requested by August 27, 2008 to support scheduled shipment activities. Authorization for the TRIGA fuel basket base intermediate and top modules (drawing Nos. 315-40-070, Rev. 5; 315-40-071, Rev. 5; and 315-40-072, Rev. 5), as requested in Reference 4, and the remainder of the MTR fuel baskets (drawing Nos. 315-40-049, Rev. 5; 315-40-050, Rev. 5; and 315-40-051, Rev. 5; and 315-40-090, Rev. 3; 315-40-091, Rev. 3; and 315-40-092, Rev. 3) is requested by September 5, 2008 to support an established shipment schedule. The requested changes have no impact on the TRIGA or MTR baskets performing their intended function nor do they invalidate any information presented in the NAC-LWT Safety Analysis Report.

NAC will include the above drawings in its next amendment request (ANSTO-HIFAR) for the model NAC-LWT cask for incorporation into the list of drawings in CoC Condition 5(a)(3).

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

Sincerely,



Anthony L. Patko  
Director, Licensing  
Engineering

Attachment 1: List of Changes for the MTR Basket Drawings

Enclosures

## **Attachment 1**

### **List of Changes for the MTR Basket Drawings**

**Drawing 315-40-045, Weldment, 7 Element Basket, 42 MTR Fuel Base Module, Revision 5**

- Revise Delta Note 4 to read: "RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 9."
- Revise Delta Note 2: was (deleted); change to read: "ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES." Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from "PT Final pass all except seal welds" to read: "PT FOLLOWING LOAD TEST. EXAMINE ....." Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names

**Drawing 315-40-046, Weldment, 7 Element Basket, 42 MTR Fuel Intermediate Module, Revision 5**

- Revise Delta Note 4 to read: "RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 8."
- Revise Delta Note 2 was (deleted); change to read: "ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES." Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from "PT Final pass all except seal welds" to read: "PT FOLLOWING LOAD TEST. EXAMINE ....." Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names

**Drawing 315-40-047, Weldment, 7 Element Basket, 42 MTR Fuel Top Module, Revision 5**

- Revise Delta Note 4 to read: "RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 7."
- Revise Delta Note 2 was (deleted); change to read: "ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES." Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from "PT Final pass all except seal welds" to read: "PT FOLLOWING LOAD TEST. EXAMINE ....." Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names
- Area B-6, remove delta note 2 symbol

**Drawing 315-40-049, Weldment, 7 Element Basket, 28 MTR Fuel Base Module, Revision 5**

- Revise Delta Note 4 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 9.”
- Revise Delta Note 2 was (deleted); change to read: “ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from “PT Final pass all except seal welds” to read “PT FOLLOWING LOAD TEST. EXAMINE .....” Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names

**Drawing 315-40-050, Weldment, 7 Element Basket, 28 MTR Fuel Intermediate Module, Revision 5**

- Revise Delta Note 4 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 8.”
- Revise Delta Note 2 was (deleted); change to read: “ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from “PT Final pass all except seal welds” to read “PT FOLLOWING LOAD TEST. EXAMINE .....” Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names

**Drawing 315-40-051, Weldment, 7 Element Basket, 28 MTR Fuel Top Module, Revision 5**

- Revise Delta Note 4 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 7.”
- Revise Delta Note 2 was (deleted); change to read: “ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 2 symbol in Zone F-5.
- Revise and add Delta to Note 6 from “PT Final pass all except seal welds” to read “PT FOLLOWING LOAD TEST. EXAMINE .....” Delete Delta Note 6 from Zone B-8.
- Sheet 1, revise Title Block group names

**Drawing 315-40-090, Weldment, 7 Element Basket, 35 MTR Fuel Base Module, Revision 3**

- Revise Delta Note 2 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 9.”
- Revise Delta Note 6 was (deleted); change to read: “ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 6 symbol in Zone F-5.
- Revise and add Delta to Note 8 from “PT Final pass all except seal welds” to read: “PT FOLLOWING LOAD TEST. EXAMINE .....” Add Delta Note 8 to Zone E-3.
- Sheet 1, revise Title Block group names


**Drawing 315-40-091, Weldment, 7 Element Basket, 35 MTR Fuel Intermediate Module, Revision 3**

- Revise Delta Note 2 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 8.”
- Revise Delta Note 6 was (deleted); change to read: “ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 4 symbol in Zone F-5.
- Revise and add Delta to Note 8 from “PT Final pass all except seal welds” to read: “PT FOLLOWING LOAD TEST. EXAMINE .....” Add Delta Note 8 to Zone E-3.
- Sheet 1, revise Title Block group names

**Drawing 315-40-092, Weldment, 7 Element Basket, 35 MTR Fuel Top Module, Revision 3**

- Revise Delta Note 2 to read: “RADIAL INSIDE SURFACE, SEAL WELD PLATE OUTER EDGE, BOTH ENDS ITEM 7.”
- Revise Delta Note 6 was (deleted); change to read “ ITEM 2 MAY BE FABRICATED FROM MULTIPLE PIECES.” Add Delta Note 4 symbol in Zone F-5.
- Revise and add Delta to Note 8 from “PT Final pass all except seal welds” to read: “PT FOLLOWING LOAD TEST. EXAMINE .....” Add Delta Note 8 to Zone E-3.
- Sheet 1, revise Title Block group names

Figure Withheld Under 10 CFR 2.390

 **NAC  
INTERNATIONAL**

WELDMENT,  
7 ELEMENT BASKET,  
42 MTR FUEL BASE MODULE  
SAFETY ANALYSIS REPORT

PROJECT	315	DESIGN PACKAGE	40	DRAWING	045	REV	5
SCALE	1/3	EST.WT.	174#	SH	1	OF	1
							6:33PM 8-8-2008

Figure Withheld Under 10 CFR 2.390



				<b>NAC INTERNATIONAL</b>	
WELDMENT, 7 ELEMENT BASKET, 42 MTR FUEL INTERMEDIATE MODULE, SAFETY ANALYSIS REPORT					
PROJECT	315	DESIGN PACKAGE	40	DRAWING	046
				REV	5
SCALE	1/3	EST. WT.	165#	SH 1 OF 1	8:41PM 8-8-2008



Figure Withheld Under 10 CFR 2.390


 <b>NAC INTERNATIONAL</b>							
WELDMENT, 7 ELEMENT BASKET, 42 MTR FUEL TOP MODULE, SAFETY ANALYSIS REPORT							
PROJECT	315	DESIGN PACKAGE	40	DRAWING	047	REV	5
SCALE	1/3	EST. WT.	165#	SH	1	OF	1
				8-40PM 8-6-2008			

Figure Withheld Under 10 CFR 2.390


		<b>NAC</b> <b>INTERNATIONAL</b>						
WELDMENT, 7 ELEMENT BASKET, 28 MTR FUEL BASE MODULE SAFETY ANALYSIS REPORT								
PROJECT	315	DESIGN PACKAGE	40	DRAWING	049	REV	5	
SCALE	1/3	EST. NO.	250#	SH	1	OF	1	8-30PM 8-8-2008

Figure Withheld Under 10 CFR 2.390


								
WELDMENT, 7 ELEMENT BASKET, 28 MTR FUEL INTERMEDIATE MODULE SAFETY ANALYSIS REPORT								
PROJECT	315	DESIGN PACKAGE	40	DRAWING	050	REV	5	
SCALE	1/3	EST. WGT.	240#	SH	1	OF	1	8:37PM 8-8-2008

Figure Withheld Under 10 CFR 2.390

<div><div>5</div><div><div>NAC</div><div>INTERNATIONAL</div></div></div>			
WELDMENT, 7 ELEMENT BASKET, 28 MTR FUEL TOP MODULE, SAFETY ANALYSIS REPORT			
PROJECT	315	DESIGN PACKAGE	40
DRAWING	051	REV	5
SCALE	1/3	EST. WT.	240#
SH	1	OF	1
8:43PM 8-8-2008			

Figure Withheld Under 10 CFR 2.390


			
WELDMENT, 7 ELEMENT BASKET, 35 MTR FUEL BASE MODULE,			
PROJECT	315-40	DRAWING	090
SCALE	1/3	SH	1 OF 1
EST.WT.			
		REV	3
		E:18PM A-5-2008	

Figure Withheld Under 10 CFR 2.390



 <b>NAC INTERNATIONAL</b>			
WELDMENT, 7 ELEMENT BASKET, 35' MTR FUEL INTERMEDIATE MODULE			
PROJECT	315-40	DRAWING	091
SCALE	1/3	EST. WT.	SH 1 OF 1
		REV 3 2:01 PM 8-11-2008	

Figure Withheld Under 10 CFR 2.390

			
WELDMENT, 7 ELEMENT BASKET, 35 MTR FUEL TOP MODULE			
PROJECT	315-40	DRAWING	092
SCALE	1/3	SH	1 OF 1
EST. WT.			8-19PM 8-8-2008