

August 11, 2008

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

Attn: Document Control Desk

Subject: 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

NAC International (NAC) hereby requests authorization to use updated TRIGA basket drawings eliminating the limitation on the maximum overall dimensions of the basket cells.

In the manufacturing of TRIGA baskets currently in process, it was noted that the current license drawings (315-40-070, Rev. 4; 315-40-071, Rev. 4; and 315-40-072, Rev. 4), as listed in Reference 2 limit the overall maximum cell external dimensions of the 7-cell array to 11.18 inches, 11.57 inches and 7.37 inches. With the individual cell sizes clearly defined, the limitation on the maximum overall cell dimensions is not required. The diameter of 13.27 inches of the base and support plates ensures that the outside cell walls do not protrude beyond the edge of the base plate.

NAC has removed the three overall dimensional limits from the three TRIGA basket module drawings and added a note to assure clear instruction for the cells to stay within the OD of the base plate. This eliminates the challenge the 11.18-inch maximum dimension presented to the fabricator while maintaining the minimum and maximum fuel cell openings. During final acceptance, the critical cell internal dimensions are inspected and measured, and it is verified that the outside walls of the cells do not protrude beyond the outside edge of the base plate.

NAC has revised the following drawings as described below.



U. S. Nuclear Regulatory Commission
August 11, 2008
Page 2 of 3

315-40-070, Rev. 5 – Weldment, 7 Cell Basket, TRIGA Fuel Base Module

1. Section A-A, deleted 11.57, 11.18 and 7.37 MAX dimensions.
2. Zone E-7, deleted Delta Note 4 TYP call out.
3. Added note 10 “Corner of Item 6 shall not protrude beyond OD of Item 1 or 2.”
4. Zone B-4, added Delta Note 4 call out to Item 2 in Bill of materials
5. Revised title block group names.

315-40-071, Rev. 5 - Weldment, 7 Cell Basket, TRIGA Fuel Intermediate Module

1. Section A-A, deleted 11.57, 11.18 and 7.37 MAX dimensions.
2. Zone E-7, deleted Delta Note 4 TYP call out.
3. Added note 10 “Corner of Item 5 shall not protrude beyond OD of Item 1 or 2.”
4. Zone B-4, added Delta Note 4 call out to Item 2 in Bill of materials
5. Revised title block group names.

315-40-072, Rev. 5 - Weldment, 7 Cell Basket, TRIGA Fuel Top Module

1. Section C-C, deleted 11.57, 11.18 and 7.37 MAX dimensions.
2. Zone E-7, deleted Delta Note 4 TYP call out.
3. Added note 10 “Corner of Item 5 shall not protrude beyond OD of Item 1 or 2.”
4. Zone B-4, added Delta Note 4 call out to Item 2 in Bill of materials
5. Revised title block group names.

Enclosed with this request are copies of the revised license drawing Nos. 315-40-070, Rev. 5; 315-40-071, Rev. 5; and 315-40-072, Rev. 5. The revision of the above drawings shows the requested changes. Authorization is requested for a 12-month period to use TRIGA baskets manufactured in accordance with the above drawings in the NAC-LWT cask. The requested changes have no impact on the TRIGA baskets performing their intended function, nor do they invalidate any information presented in the NAC-LWT Safety Analysis Report.

This request for authorization is submitted in support of an ongoing fabrication and hardware delivery effort, and subsequent shipment schedule. Therefore, the NRC's timely response is being requested. 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).



U. S. Nuclear Regulatory Commission
August 11, 2008
Page 3 of 3

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 that reads 'Anthony L. Patko'.

Anthony L. Patko
Director, Licensing
Engineering

Enclosures

Figure Withheld Under 10 CFR 2.390


			
WELDMENT, 7 CELL BASKET, TRIGA FUEL BASE MODULE			
PROJECT	315-40	DRAWING	070
SCALE	1/3	EST. WT.	197 LBS
		SH	1 OF 1
		<small>10 47AM 8-7-2008</small>	

Figure Withheld Under 10 CFR 2.390



			
WELDMENT, 7 CELL BASKET, TRIGA FUEL INTERMEDIATE MODULE			
PROJECT	315-40	DRAWING	071
		REV	5
SCALE	1/3	EST. WT.	187 LBS
		SH	1 OF 1
			10:48AM 8-7-2008

Figure Withheld Under 10 CFR 2.390

			
WELDMENT, 7 CELL BASKET, TRIGA FUEL TOP MODULE			
PROJECT	315-40	DRAWING	072
SCALE	1/3	EST. WT.	275 LBS
		SH	1 OF 1
			REV 5
			10:48AM 8-7-2008