

May 28, 2008

Ms. Lori Podolak  
Product Licensing Specialist  
Regulatory Affairs Department  
QSA Global, Inc.  
40 North Avenue  
Burlington, MA 01803

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 6613 FOR THE MODEL NO. 702  
PACKAGE

Dear Ms. Podolak:

As requested by your application dated October 5, 2007, as supplemented on October 25, 2007, and May 15, 2008, enclosed is Certificate of Compliance No. 6613, Revision No. 13, for the Model No. 702 package. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's Safety Evaluation Report is also enclosed.

Those on the attached list have been registered as users of the package under the general license provisions of 10 CFR 71.17 or 49 CFR 173.471. The approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471.

If you have any questions regarding this certificate, please contact me or Jessica Glenny of my staff at (301) 492-3285.

Sincerely,

**/RA/**

Meraj Rahimi, Acting Chief  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-6613  
TAC No. L24137 and L24138

Enclosures: 1. Certificate of Compliance  
No. 6613, Rev. No. 13  
2. Safety Evaluation Report  
3. Registered Users List

cc w/encl 1 & 2: R. Boyle, Department of Transportation  
J. Shuler, Department of Energy  
Registered Users

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DISTRIBUTION: (closes TAC Nos. L24137 and L24138)

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OFC:	SFST	E	SFST	E	SFST		SFST		SFST		SFST	
NAME:	JGlenny		MDeBose		MGordon		BLehman		CRegan		MRahimi	
DATE:	5/23/2008		5/23/2008		5/22/2008		5/23/2008		5/28/2008		5/28/2008	

## SAFETY EVALUATION REPORT

Docket No. 71-6613  
Model No. 702 Package  
Certificate of Compliance No. 6613  
Revision No. 13

### SUMMARY

By application dated October 5, 2007, as supplemented on October 25, 2007, and May 15, 2008, QSA Global Inc., submitted a renewal and amendment request for Certificate of Compliance (CoC) No. 6613, for the Model No. 702 Type B(U)-96 container. QSA Global requested minor design alterations, clarification regarding wording, and dimensional changes on Drawing No. R70290.

### EVALUATION

By application dated October 5, 2007, as supplemented on October 25, 2007, and May 15, 2008, QSA Global requested renewal and amendment to CoC No. 6613. Minor changes were made to QSA's Drawing No. R70290 for the Model No. 702. The amendment also made several clarifications and changes to dimensions on drawing R70290. Initially, QSA requested approval of substituting 18-8 stainless steel bolts for 304 stainless steel bolts, but by letter dated May 15, 2008, the applicant opted for not requesting the change.

QSA updated Drawing No. R70290, to Revision S, to reflect the changes requested in the amendment. Sheet 1 of 10 of the drawing was revised to include a note identifying the applicable AWS code reference and to clarify the qualification standard for the weld inspectors.

The weld specification on the skid foot pads originally specified a fillet weld on all four sides, but a fillet weld cannot be produced on a flush surface. In fabrication this weld is actually a 1/4" fillet weld on the two interior sides of the foot pad, a 1/8" groove weld ground flat on the side of the foot pad along the straight edge of the skid, and a flare-bevel weld on the side of the foot pad along the bent edge of the skid. QSA corrected the weld specification for the skid foot pads. This change is reflected in Drawing No. 70290, Sheet 3 of 10.

The weld thickness for the perforated protective cage plate was corrected on Sheet 4 of 10, Drawing No. 70290, from a dimension of 1/8" to the correct dimension of 3/64". This was explained as a typographical error and all containers tested for the initial CoC were fabricated with a weld of 3/64". During drop testing the containers were not prone to increased safety-related failure along the cage weld connections. Only one of three tests, TP81(B), showed a failure of welds at the top edge of the protective cage which did not constitute a risk to public health and safety.

The addition of a stainless steel flat washer to the cask lid eyebolt attachment, and the specification of the eyebolt as "forged carbon steel" rather than "carbon steel" were revised on Sheet 6 of 10 in Drawing No. 70290.

QSA submitted a revised drawing for the existing weld on the 4.28" diameter inner steel sheath on Sheet 7 of 10 of Drawing No. R70290. QSA stated that this weld always existed on the cask but had not been clearly specified on previous revisions of Drawing No. R70290. This weld specification was added for accuracy.

On Sheet 8 of 10 of drawing R70290, the cask lid is shown with a single piece top cover plate. Previously the lid top was constructed with a cover plate and a spacer. This two-piece construction method is still referenced on the drawings as an alternative method. The staff finds this change acceptable.

Condition No. 5.(a)(3) was revised to reflect Revision S as the latest version of Drawing No. R70290. Condition No. 8 was revised for clarity; and Condition No. 9 reflects the new expiration date of June 13, 2013.

#### CONCLUSION

Based on the statements and representations in the application, the NRC staff has reviewed the proposed changes for the Model No. 702. The staff concludes the changes indicated for the Model No. 702 Type B(U)-96 container do not affect the ability of container and the design to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 6613, Revision No. 13 on May 28, 2008.