

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001



March 23, 2016

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF THE MODEL  
NO. SENTRY PACKAGE

Dear Ms. Podolak:

By letter dated February 29, 2016, QSA Global Inc., submitted an amendment request to the U.S. Nuclear Regulatory Commission for Certificate of Compliance No. 9357 for the Model No. SENTRY transportation package.

In connection with the staff's review, we need the information identified in the enclosure to this letter. We request that you provide this information by April 8, 2016. Inform us at your earliest convenience, but no later than March 25, 2016, if you are not able to provide the information by that date. To assist us in re-scheduling your review, you should include a new proposed submittal date and the reasons for the delay. Note that at this time we have only had time to review the first seven items and item a in the request and not the remaining 27 items labeled b through bb.

Please reference Docket No. 71-9357 and CAC No. L25090 in future correspondence related to this request. The staff is available to clarify these questions, and if necessary to meet and discuss your proposed responses. If you have any questions regarding this matter, please contact me at 301-415-6577.

Sincerely,

**/RA/**

Bernard H. White IV, Senior Project Manager  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-9357  
TAC No. L25090

Enclosure:  
Request for Additional Information

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

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF THE MODEL NO.  
SENTRY

Dear Ms. Podolak:

By letter dated February 29, 2016, QSA Global Inc., submitted an amendment request to the U.S. Nuclear Regulatory Commission for Certificate of Compliance No. 9357 for the Model No. SENTRY transportation package.

In connection with the staff's review, we need the information identified in the enclosure to this letter. We request that you provide this information by April 8, 2016. Inform us at your earliest convenience, but no later than March 25, 2016, if you are not able to provide the information by that date. To assist us in re-scheduling your review, you should include a new proposed submittal date and the reasons for the delay. Note that at this time we have only had time to review the first seven items and item a in the request and not the remaining 27 items labeled b through bb.

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Enclosure:  
Request for Additional Information

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**Request for Additional Information**  
**QSA Global, Inc.**  
**Docket No. 71-9357**  
**Certificate of Compliance No. 9357**  
**Model No. SENTRY Package**

By application dated February 29, 2016, QSA Global, Inc., requested approval of an amendment for Certificate of Compliance No. 9357 for the Model No. SENTRY package. This request for additional information identifies information needed by the U.S. Nuclear Regulatory Commission (NRC) staff in connection with its review of the application. The requested information is listed by chapter number and title in the applicant's safety analysis report. NUREG-1609, "Standard Review Plan for Transportation Packages for Radioactive Materials," was used by the staff in its review of the application.

Each question describes information needed by the NRC staff for it to complete its review of the application and to determine whether the applicant has demonstrated compliance with regulatory requirements.

**Section 2. Structural Evaluation**

- 2-1 Provide supporting information/calculations indicating how the SENTRY package will maintain its ability to meet the dose rate and containment requirements after the tests for normal conditions of transport and hypothetical accident conditions given modifications to the shield ring welds.

Previously, the shield ring shown in Drawing No. R8600, Revision P, Sheet No. 2 Section B2-B2 had a 1/16-inch fillet weld attaching it the shell (all the way around weld symbol). The current amendment requests a staggered tack weld with undefined spacing in lieu of the aforementioned fillet weld.

Provide calculations and/or other supporting information indicating how the shield ring weld will perform when tacked after the tests for normal conditions of transport and hypothetical accident conditions. The staff is concerned that vibrational effects and/or damage from the drop tests could allow the depleted uranium shield to become detached from the shell and increase dose rates.

This information is required to determine compliance with Title 10 of the *Code of Federal Regulations* (10 CFR) 71.47, 10 CFR 71.51(a)(2), 10 CFR 71.71 and 10 CFR 71.73.