

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



August 20, 2015

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

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

Dear Ms. Podolak:

By letter dated October 22, 2014, as supplemented on February 25, March 3, and June 25, 2015, 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 November 15, 2015. Inform us at your earliest convenience, but no later than November 1, 2015, 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.

Please reference Docket No. 71-9357 and TAC No. L24960 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. L24960

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 October 22, 2014, as supplemented on February 25, March 3, and June 25, 2015, 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 November 15, 2015. Inform us at your earliest convenience, but no later than November 1, 2015, 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.

Please reference Docket No. 71-9357 and TAC No. L24960 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.

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Docket No. 71-9357
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Enclosure: Request for Additional Information

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DATE	8/18/15	8/ 18 /15	8/ 19 /15	8/20/15	8/20/15

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

By application dated October 22, 2014, as supplemented on February 25, March 3, and June 25, 2015, 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 867 package will meet the dose rates after the tests for hypothetical accident conditions given modifications to the raised rear plate assembly.

As requested in the request for additional information (RAI) dated April 14, 2015, it is unclear how the SENTRY 867 package will perform after the 30-foot drop test for hypothetical accident conditions when the package is oriented such that the rear plate assembly would be a recipient of a direct strike. In its response dated June 15, 2015, the applicant provided drop test data (2 drops) for such a scenario outlined in Test Plan 213, which was then followed by a puncture scenario. However, it was reported that a direct strike to the rear plate assembly for the 30-foot drop test could not be obtained due to package rotation.

Because the rear plate assembly could not be directly impacted, it is still unclear how the rear plate assembly will perform when subjected to the 30-foot drop followed by the puncture test. On page 19 of Test Plan 213 the applicant mentioned that a similar situation occurred (two non-direct strikes) for specimen TP180A detailed in Test Plan 180. However, page 2-26 of the safety analysis report indicates that a direct strike to the rear plate assembly was reported in one of these two tests for specimen TP180A. In addition, a direct strike to the rear plate assembly of another specimen (TP180D) used for the SENTRY 330 (page 2-28 of the SAR) was achievable.

This information is required to determine compliance with Title 10 of the *Code of Federal Regulations* (10 CFR) 71.41(a), 10 CFR 71.51, and 10 CFR 71.73.