



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

April 14, 2015

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

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

Dear Ms. Podolak:

By letter dated October 22, 2014, as supplemented on February 25, and March 3, 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 on the request and responses for the request for additional information, we need the information identified in the enclosure to this letter. We request that you provide this information by May 8, 2015. Inform us at your earliest convenience, but no later than May 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
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Dear Ms. Podolak:

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Enclosure: Second Request for Additional Information

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

By application dated October 22, 2014, as supplemented on February 25, and March 3, 2015, QSA Global, Inc., requested approval of an amendment for Certificate of Compliance No. 9357 for the Model No. SENTRY transportation package.

This request for additional information (RAI) identifies information needed by the U.S. Nuclear Regulatory Commission (NRC) staff in connection with its review of the application and responses to the first RAI. 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

1. Provide supporting information (calculations, drop testing, etc.) to show that the SENTRY package will maintain its ability to meet the acceptance criteria in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 71 after the tests for normal conditions of transport (NCT) and hypothetical accident conditions (HAC) given the raised rear plate assembly beyond the port tube.

Drawing No. R86000, Revision J, sheet No. 6 of 10, Section A6-A6, details a cover shield made of tungsten in the rear plate assembly and the same sections on Drawing No. R86000, Revision K and Revision L, detail an optional spacer ring behind this cover plate. Response of QSA Global Inc., to the RAI, dated Feb 25, 2015, indicated that the dust cover in this section will now protrude beyond the port tube a total of 0.3 inches from an original 0.1 inches due to the inclusion of the aforementioned tungsten cover shield. Since this change could potentially alter the load path through the rear assembly plate during drop and penetration conditions listed under NCT and HAC, supporting calculations/information should indicate how the rear plate will perform under these conditions. The applicant mentioned that the port tube may have been engaged under previous drop testing which is now a less likely scenario due to the greater protrusion. Note that the original drop testing did not incorporate an optional spacer ring or a tungsten cover shield.

Describe how the optional spacer ring and dust cover will affect the performance of the package when subjected to NCT and HAC tests. If the package's ability to perform acceptably under these conditions depends at all on the spacer ring or dust cover, provide material properties of these components and list them on the drawings as needed. Note that the original drop testing did not incorporate an optional spacer ring or a tungsten cover shield.

This information is required to determine compliance with 10 CFR 71.41(a), 10 CFR 71.43(f), 10 CFR 71.51, 10 CFR 71.71, and 10 CFR 71.73.

2. Provide all necessary dimensions of the rear plate assembly on all sheets of Drawing No. R86000.

Dimensions are required in order to make a determination of compliance. Specifically, on Drawing No. R86000, Revision L, sheet No. 6 of 11, Section A6-A6, does not indicate how wide the dust cover assembly is, nor how wide the other components in the rear plate assembly are. A dimensioned, spatial relation of the rear plate assembly to the port tube should also be shown, as it is unclear how far the rear plate assembly protrudes beyond it, nor how close it is to the port tube. Dimensions indicating thickness of the dust cover, particularly over the tungsten cover shield, should also be indicated as well as any missing dimensions (length, width, and depth) for all components in the view. Any other sheets, such as Drawing No. R86000, Revision L, sheet No. 10 of 11, that display components in Section A6-A6 on Drawing No. R86000, Revision L, sheet No. 6 of 11, should also show dimensions that would not be appropriate in the Section A6-A6 on sheet No. 6.

This information is required to determine compliance with 10 CFR 71.33.