

April 15, 2014

Mr. Robert E. Hypes
Columbiana Hi Tech, LLC
1802 Fairfax Road
Greensboro, North Carolina 207407

SUBJECT: SECOND REQUEST FOR ADDITIONAL INFORMATION FOR REVIEW OF THE
CERTIFICATE OF COMPLIANCE NO. 9291, FOR THE MODEL NO.
LIQUI-RAD TRANSPORT UNIT PACKAGE (TAC NO. L24783)

Dear Mr. Hypes:

On November 27, 2014, the staff issued a request for additional information (RAI) (ADAMS Accession Number ML13333C082) to Columbiana Hi Tech, LLC (the applicant). The applicant requested a revision to the certificate of compliance (CoC) for the Model No. Liqui-Rad transport unit package. The application proposes revising the following: (1) the design of the Liqui-Rad for making the draw pipe an optional component for this transportation unit; and (2) the definition of the containment boundary. The staff received the responses to the RAIs by letter dated February 5, 2014 (ADAMS Accession Number ML14050A112). On March 12, 2014, the staff and the applicant participated on a telephone call to discuss the responses to the RAIs (ADAMS Accession Number ML14072A364).

In connection with our review, we need additional information as identified in the enclosure to this letter. To assist us in scheduling staff review of your response, we request that you provide this information by May 23, 2014. Inform us at your earliest convenience, but no later than April 25, 2014, if you are not able to provide the information by that date. If you are unable to provide a response by May 23, 2014, our review may be delayed.

Please reference Docket No. 71-9291 and TAC No. L24783 in future correspondence related to this request. The staff is available to meet to discuss your proposed responses. If you have any questions regarding this matter, I may be contacted at (301) 287-9185.

Sincerely,

/RA/

Norma Garcia-Santos, Project Manager
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-9291
TAC No. L24783

Enclosure: Request for Additional Information Number 2

Mr. Robert E. Hypes
 Columbiana Hi Tech, LLC
 1802 Fairfax Road
 Greensboro, North Carolina 207407

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Docket No. 71-9291
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Enclosure: Request for Additional Information Number 2

Distribution: SFST r/f NMSS r/f MFerdas, RI SVias, RII ROrlikowski, RIII
 BSpitzberg, RIV NGarcia-Santos DMarcano

ADAMS P8 Accession No.: ML14105A289

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DATE	4/4/2014		4/7/2014		4/7/2014		4/7/2014		4/8/2014	
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DATE	4/8/2014		4/9/2014		4/15/14					

C=Without attachment/enclosure E=With attachment/enclosure N=No copy

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Second Request for Additional Information
U.S. Department of Energy
National Nuclear Security Administration
Docket No. 71-9291
Certificate of Compliance No. 71-9291
Model No. Liqui-Rad Transport Unit Package

By application dated August 27, 2013, Columbiana Hi Tech, LLC (the applicant), requested a revision to the certificate of compliance (CoC) for the Model No. Liqui-Rad transport unit package. The application proposes revising the following: (1) the design of the Liqui-Rad for making the draw pipe an optional component for this transportation unit; and (2) the definition of the containment boundary.

This request for additional information (RAI) identifies information needed by the U.S. Nuclear Regulatory Commission staff in connection with its review of the application. NUREG-1609, "Standard Review Plan for Transportation Packages for Radioactive Material," was used by the staff in its review of the application.

RAI-3.1* Provide the definition of the:

- a. secondary wall of the Liqui-Rad transportation package; and
- b. containment boundary to include the primary and secondary lid closure bolts.

Note: NUREG-1609, Section 4.5.1.1, mentions that the exact boundary of the containment system may include the containment vessel, welds, seals, lids, cover plates, valves, and other closure devices.

Revise the safety analysis report (SAR) to include these definitions and ensure consistency throughout the document, including Sections 1.2.1.6 and 4.1.

This information is required to determine compliance with 10 CFR 71.33(a)(4) which mentions that the description of the package must include identification of the containment system.

RAI-5.1† Describe the proposed special controls and precautions for handling and unloading and identifying the appropriate method to open the package. Revise Sections 7.1 and 7.2 of the SAR to ensure each closure device of the package is properly installed to account for the potential for a shorter draw pipe or a failed draw pipe-to-primary lid weld.

The staff notes that if the draw pipe does not extend to the bottom of the tank, or the draw pipe-to-primary lid weld fails, the primary lid may have to be removed and secured as part of the unloading and subsequent reloading of the vessel. Additionally, in terms of the containment definition, the filter requirements of paragraph 7.2.g of the SAR should be applied to paragraph 7.2.f when removing the secondary lid.

This information is needed to meet the requirements of 10 CFR 71.89 for opening instructions.

* Related to response to RAI-3 dated February 5, 2014.

† Related to response to RAI-5 dated February 5, 2014.