



Department of Energy
Washington, DC 20585

February 8, 2021

Mr. Brad Auman
Transportation and Waste Management, Division Director
Nuclear Fuel Services, Inc.
1205 Banner Hill Road
Erwin, TN 37650

Dear Mr. Auman:

In response to the email from Thomas C. Holly of your staff dated November 13, 2020, to Dr. James Shuler of my staff, enclosed is Department of Energy (DOE), Quality Assurance Program Approval (QAPA), Approval Number 0006, Revision 3, for Nuclear Fuel Services, Inc. (NFS), Erwin, TN. This approval for amendment and renewal of QAPA 0006 is based on DOE Packaging Certification Program (PCP)'s previous endorsement of Nuclear Regulatory Commission (NRC) Approval Number 0249, Revision 15, February 26, 2016, of NFS *Quality Assurance Program (QAP) for Shipping Packages for Radioactive Material*, Revision 15, dated August 19, 2015 and DOE PCP review of the QAP changes in Revisions: 16 (August 11, 2016), 17 (August 2, 2017) and 18 (Document #56T-20-0037 added, March 9, 2020). DOE PCP concurs that the changes to the QAP do not reduce the commitments previously approved by NRC and provide reasonable assurance to meet the requirements of 10 CFR Part 71 Subpart H.

This DOE QAPA satisfies DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*, and therefore complies with the provisions in 49 CFR 173.7(d) for DOE to maintain packaging standards equivalent to those specified in 10 CFR Part 71.

The expiration date of DOE QAPA 0006, Revision 3, is November 30, 2025. If you wish to renew, revise, or terminate approval of the QAPA 0006, please request this action in writing. Any revisions to the NFS QAP, except for spelling corrections and nonsubstantive changes to punctuation or editorial items, must be submitted and approved by DOE PCP prior to implementation of the proposed changes. Revisions for spelling corrections and nonsubstantive changes to punctuation or editorial items should be submitted to DOE PCP for reference.

Further, since NFS is an agreement state licensee (TN), NFS must not consign a DOE-certified package for shipment. Only Departmental elements or persons working under contract to DOE elements may consign a DOE certified package for shipment. However, NFS can transfer the material onsite to DOE elements or persons working under contract to DOE elements for consignment of a DOE-certified package.

If you have any questions, please contact me or Dr. Shuler at (301) 903-5513.

Sincerely,

Julia C. Shenk
Headquarters Certifying Official
Director
Office of Packaging and Transportation

Digitally signed by Julia C. Shenk
Date: 2021.02.08 10:55:10 -05'00'

Enclosure

cc: Thomas C. Holly, NFS
James Shuler, EM-4.24
QA Docket 2011-004



U.S. Department of Energy
QUALITY ASSURANCE PROGRAM APPROVAL
 For Type B and Fissile Radioactive Material Packages

1. APPROVAL NUMBER 0006
REVISION 3

Pursuant to DOE Order 460.1D, *Hazardous Materials Packaging and Transportation Safety*, subparagraph 4.a.(3), *Quality Assurance (QA)* directs that each Departmental element that participates in the use, design, purchase, fabrication, handling, shipping, storing, cleaning, assembly, inspection, testing, operation, maintenance, repair, and modification of Type B or fissile materials packaging must have and maintain a quality assurance (QA) program in accordance with 10 CFR Part 71, Subpart H that is approved by the NRC or the DOE Certifying Official, prior to the performance of those operations. The Contractors Requirements Document in Attachment 1 of Paragraph 5.a. of the Order imposes the same requirement on DOE contractors. Based on the reliance on statements and representations heretofore made in Block 5 by the organization named in Block 2, the Quality Assurance Program Description identified in Block 5 is hereby approved. This approval is issued to satisfy the requirements of the Order, 49 CFR 173.7.(d), and 10 CFR 71.101. This approval is subject to all applicable rules, regulations, and orders of the U.S. Department of Energy now or hereafter in effect and to any conditions specified below.

2. ORGANIZATION NAME Nuclear Fuel Services, Inc.			3. EXPIRATION DATE November 30, 2025
STREET ADDRESS 1205 Banner Hill Road			4. DOCKET NUMBER 2011-004
CITY Erwin	STATE TN	ZIP CODE 37650	

5. QUALITY ASSURANCE PROGRAM DESCRIPTION, REVISION, and DATE

DOE approval based on (a) endorsement of NRC Form 311, Approval Number 0249, Revision 15, February 26, 2016 of NFS *Quality Assurance Program (QAP) for Shipping Packages for Radioactive Material*, Revision 15, dated August 19, 2015 and (b) DOE review of the QAP changes in Revisions 16 (August 11, 2016), 17 (August 2, 2017) and 18 (Document #56T-20-0037 added, March 9, 2020).

6. CONDITIONS

- Activities conducted regarding Type B and fissile material transportation packagings are to be executed under applicable criteria of 10 CFR Part 71 Subpart H. Authorized activities include: design, procurement, fabrication, assembly, testing, modification, maintenance, repair and use of transportation packagings.
- Records shall be maintained in accordance with the provisions of 10 CFR Part 71. Specifically:
 - Records of each shipment of licensed material shall be maintained for 3 years after that shipment [10 CFR 71.91(a)].
 - Records providing evidence of packaging quality shall be maintained for 3 years after the life of the packaging [10 CFR 71.91(d)].
 - Records describing activities affecting packaging quality shall be maintained for 3 years after this Quality Assurance Program Approval is terminated [10 CFR 71.135].
- Planned and periodic audits of all aspects of the Quality Assurance Program shall be conducted in accordance with written procedures or checklists, by appropriately trained personnel not having direct responsibility in the areas being audited, in accordance with 10 CFR 71.137.
- In addition to the requirements of Subparts G and H of 10 CFR 71, and except as specified in Section 5(d), "Conditions," of applicable Certificates of Compliance, each package must be designed, fabricated, acceptance tested, operated, and maintained in accordance with applicable Safety Analysis Report for Packaging requirements; specifically, Chapter 7, "Operating Procedures," Chapter 8, "Acceptance Tests and Maintenance Program," and Chapter 9, "Quality Assurance."

FOR THE U.S. DEPARTMENT OF ENERGY

SIGNATURE Julia C. Shenk <small>Digitally signed by Julia C. Shenk Date: 2021.02.08 10:59:33 -05'00'</small>	DATE OF ISSUANCE February 8, 2021
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Julia C. Shenk
 DOE Headquarters Certifying Official
 Director, Office of Packaging and Transportation