



Department of Energy
Washington, DC 20585

August 10, 2021

Richard L. Byars
Group Director Quality Assurance, WM
EnergySolutions
740 Osborn Road
Barnwell, SC 29812

Dear Mr. Byars:

In response to your request emailed August 3, 2021, to Dr. James Shuler of my staff, enclosed is Department of Energy (DOE), Quality Assurance Program Approval (QAPA), Approval Number 0001, Revision 5, for EnergySolutions (ES). This approval for revision of QAPA 0001 is based on DOE Packaging Certification Program (PCP) endorsement of the Nuclear Regulatory Commission (NRC) Approval Number 0935, Revision 10, dated July 5, 2019, of ES *Quality Assurance Program* (QAP), ES-QA-PG-001, Revision 6, dated June 4, 2019, and DOE PCP staff's confirmatory review that changes in Revisions 7 and 8 of the QAP do not reduce ES' commitments in the QAP (Rev. 6) previously approved by the NRC.

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 0001, Revision 5, is April 30, 2025. If you wish to renew, revise, or terminate approval of the QAPA 0001, please request this action in writing. Any revisions to the ES QAP, except for spelling corrections and non-substantive changes to punctuation or editorial items, must be submitted and approved by the DOE PCP prior to implementation of the proposed changes. Revisions for spelling corrections and non-substantive changes to punctuation or editorial items should be submitted to DOE PCP for reference.

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

**Julia C.
Shenk**

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Julia C. Shenk
Date: 2021.08.10
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Julia C. Shenk
Headquarters Certifying Official
Director
Office of Packaging and Transportation

Enclosure

cc: James Shuler, EM-4.24



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

1. APPROVAL NUMBER
0001

REVISION
 5

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
 Energy Solutions

3. EXPIRATION DATE
 April 30, 2025

STREET ADDRESS
 740 Osborn Road

4. DOCKET NUMBER

CITY
 Barnwell

STATE
 SC

ZIP CODE
 29812

2010-001

5. QUALITY ASSURANCE PROGRAM DESCRIPTION, REVISION, and DATE
Quality Assurance Program, ES-QA-PG-001, Revision 8, effective date July 26, 2021

6. CONDITIONS

1. 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.
2. Records shall be maintained in accordance with the provisions of 10 CFR Part 71. Specifically:
 - a. Records of each shipment of licensed material shall be maintained for 3 years after that shipment [10 CFR 71.91(a)].
 - b. Records providing evidence of packaging quality shall be maintained for 3 years after the life of the packaging [10 CFR 71.91(d)].
 - c. Records describing activities affecting packaging quality shall be maintained for 3 years after this Quality Assurance Program Approval is terminated [10 CFR 71.135].
3. 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.
4. 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

DATE OF ISSUANCE
 August 10, 2021

**Julia C.
 Shenk**

*Digitally signed by Julia C. Shenk
 Date: 2021.08.10 09:00:13 -04'00'*

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