



Department of Energy

Washington, DC 20585

MEMORANDUM FOR SANDRA S. ROGAN
MANAGER
PRINCETON SITE OFFICE

FROM:

JULIA C. SHENK **Julia C. Shenk** Digitally signed by Julia C. Shenk
Date: 2024.11.01 15:07:19 -04'00'
HEADQUARTERS CERTIFYING OFFICIAL
DIRECTOR
OFFICE OF PACKAGING AND TRANSPORTATION

SUBJECT: Amendment of Quality Assurance Program Approval 0044

Attached is the Department of Energy (DOE) Quality Assurance Program (QAP) Approval, 0044, Revision 1, for the Princeton Plasma Physics Laboratory's (PPPL), in response to your request dated September 30, 2024. This approval is based on independent review by the DOE Packaging Certification Program (PCP) of the changes in the PPPL *Institutional Quality Assurance Program Description*, Revision 16, dated September 2024, which did not impact *Quality Assurance Program Plan: Low Level Radioactive Waste*, No. EM-QA-20, Rev 30. This approval is limited to use of the Model 9979 Type A fissile package by PPPL for the following operations, given their limited scope (one-time receipt) and applicability of 10 CFR Part 71 Subpart H, per DOE Certificate of Compliance No. 9979, Condition 5(d)(3) (<https://rampac.energy.gov/docs/default-source/certificates/1029979.pdf>):

1. Package Unloading (Receipt of Package from carrier and removal of contents)
2. Preparation of Empty Package for Transport (49 CFR 173.428)

This DOE QAP Approval 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 Approval Number 0044, Revision 1, is March 31, 2029. If you wish to renew, revise, or terminate approval of QAP Approval 0044, please request this action in writing. Any revisions to PPPL's *Institutional Quality Assurance Program Description*, Revision 16 or EM-QA-20, Rev 30, except for spelling corrections and non-substantive changes to punctuation or editorial items, must be submitted and approved by DOE PCP prior to implementation of the proposed changes.

Please send the final approval of the PPPL QAPD with your signature, within seven days from date of this memorandum.

If you have any questions or need more details, please contact Lawrence Gelder at 803-645-3430 or lawrence.gelder@em.doe.gov.

Attachment: QAPA 0044, Rev. 1

cc: Deborah Niemenski, PSO
Andres Castaneda, PPPL
QA Docket 2023-003



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

1. APPROVAL NUMBER
0044

REVISION
1

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
Princeton Plasma Physics Laboratory

3. EXPIRATION DATE
March 31, 2029

STREET ADDRESS
100 Stellarator Rd

4. DOCKET NUMBER
2023-003

CITY STATE ZIP CODE
Princeton NJ 08540

5. QUALITY ASSURANCE PROGRAM DESCRIPTION, REVISION, and DATE
Princeton Plasma Physics Laboratory's (PPPL), *Institutional Quality Assurance Program Description*, Revision 16 dated September 2024 as supplemented by *Quality Assurance Program Plan: Low Level Radioactive Waste* No. EM-QA-20, Rev 30, effective 8/4/2023.

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

DATE OF ISSUANCE

Julia C. Shenk Digitally signed by Julia C. Shenk
Date: 2024.11.01 15:12:02 -04'00'

November 11, 2024

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