**Department of Energy**
**Washington, DC 20585**

August 31, 2015

Mr. Stephen Ralls
Croft Associates Limited
F4 Culham Science Center
Abingdon, Oxfordshire
United Kingdom
OX14 3DB

Dear Mr. Ralls:

Enclosed is the Department of Energy (DOE) Quality Assurance Program (QAP) Approval, Approval Number 0009, Revision 1, for Croft Associates Limited, in response to your request to my staff dated August 11. This approval is based DOE endorsement of the Nuclear Regulatory Commission (NRC) approval of your QAP, NRC Approval No. 0939, Revision 1, issued on March 28, 2014 with an expiration date of March 31, 2018.

This DOE QA Approval satisfies DOE Order 460.1 C, *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 0009, Revision 1 is March 30, 2018. Please notify my office, in writing, of any changes to the status of your QAP approval by NRC.

This approval memorandum also serves as a reminder that DOE Order 460.1 C requires each DOE entity that offers for transportation or transports radioactive material for DOE in Type B or fissile material packaging certified by the Headquarters Certifying Official (HCO) or the NRC shall be registered in writing with the HCO. Refer to the following URL for registration instructions: http://rampac.energy.gov.

Sincerely,

Frank Marcinowski
Headquarters Certifying Official
Deputy Assistant Secretary for
Waste Management

Enclosure: QAPA 0009, Rev.1

cc: Lawrence Gelder, SRNL
Roberta Riel, ANL

QA Docket File 2011-009

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

1. APPROVAL NUMBER
0009

REVISION
1

Pursuant to DOE Order 460.1C, *Packaging and Transportation Safety*, subparagraph 4.a.(3), *Quality Assurance (QA)* directs that each entity that participates in the design, fabrication, procurement, use, or maintenance of a hazardous materials packaging must have a QA Program approved and audited by the Headquarters Certifying Official that satisfies the requirements of 10 CFR Part 71, Subpart H, QA, for certified Type B and fissile radioactive materials packagings. The Contractors Requirements Document in Attachment 1 of Paragraph 6 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 | | | 3. EXPIRATION DATE |
|---|---|---|---|
| Croft Associates Limited | | | March 31, 2018 |
| STREET ADDRESS<br>F4 Culham Science Center | | | 4. DOCKET NUMBER |
| CITY<br>Abingdon, Oxfordshire, United Kingdom | STATE<br>- | ZIP CODE<br>OX14 3DB | 2011-009 |

5. QUALITY ASSURANCE PROGRAM DESCRIPTION, REVISION, and DATE
*Quality Assurance Program Description Manual for 10 CFR Part 71, Subpart H*, QAR 144, Issue B, November 12, 2013 (DOE endorses NRC Approval No. 0939, Revision 1 dated March 28, 2014)

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 |
|---|---|
| | 5/28/15 |

Frank Marcinowski
DOE Headquarters Certifying Official
Deputy Assistant Secretary for Waste Management