

# Savannah River Site Status Update

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**Advisory Board on Radiation and Worker Health 116<sup>th</sup> meeting**

Naperville, Illinois

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# Status of Deliverables

| # | Issue Topic             | Deliverable                                | Initial Completion | Status    |
|---|-------------------------|--|--------------------|-----------|
| 1 | Co-worker Models        | Initial or interim ORAUT-OTIB-0081 (Rev 3) | Oct . 2016         | Nov. 2016 |
|   |                         | Full ORAUT-OTIB-0081 (Rev 4)               | Feb. 2017          | Jun. 2017 |
| 2 | Neptunium               | ORAUT-RPRT-0065 – Np Operations            | Aug. 2016          | Sep. 2016 |
|   |                         | ORAUT-RPRT-0077 - Identification           | Sep. 2016          | Nov. 2016 |
|   |                         | ORAUT-RPRT-0080: <i>PuFF Construction</i>  | Dec. 2016          | Feb. 2017 |
| 3 | Thorium                 | ORAUT-RPRT-0070: Thorium Exposures - 1972  | Jan. 2017          | Apr. 2017 |
|   |                         | ORAUT-RPRT-0081: Thoron Exposures          | Jan. 2017          | Apr. 2017 |
| 4 | Metal Hydrides          | ORAUT-RPRT-0072: Metal Hydride exposures   | Oct. 2016          | Jan. 2017 |
| 5 | Subcontractor Follow-up | Job Plan Evaluation of Construction work   | Feb. 2017          | Jun. 2017 |

# Co-worker models

- ✓ Revision 3 sent to Advisory Board on Radiation and Worker Health in November
- ✓ Revision 4 of ORAUT-OTIB-0081 to contain all remaining radionuclides of interest<sup>1</sup>

**Additional NOCTS data has been coded, Data completeness and QA verification is progressing.**

**Scheduled completion June 2017**

<sup>1</sup>Plutonium, uranium, neptunium, mixed fission products, strontium, cesium, and cobalt

# **ORAUT-RPRT-0070: *Thorium Exposures post 1972 at the Savannah River Site***

- ✓ Post-1972 Thorium (Th) exposures report to describe SRS Th work and dose reconstruction (DR) methods from 1972-1980 and 1980-1995
- ✓ After May 1980, will support use of 10% of the DAC to bound the Th doses when Th operations and inventory were minimal (Evaluation based on air monitoring and contamination surveys)

**Draft Report is undergoing internal review.**

**Scheduled completion April 2017**

# ***ORAUT-RPRT-0081: Thoron Exposures at the Savannah River Site***

- ✓ This report will demonstrate the appropriateness of a bounding approach based on tank farm air monitoring.

**Schedule delay due to non-uniformity in the thoron computation methodology. Generic methodology to be used for all sites is being published in ORAUT-RPRT-0084. ORAUT-RPRT-0081 is being revised to incorporate uniform methodology.**

**Scheduled completion April 2017**

# ORAU-RPRT-0083: Subcontractor Evaluation

- ✓ NIOSH sampled the Job Plans and randomly selected 110 construction trades workers for follow up
- ✓ Data capture for radiological records conducted week of November 14, 2016

**Records received from SRS on January 26, 2017, which has delayed the report**

**Scheduled completion for this effort is June 2017**