

**SC&A Status Summary for SRS:  
Review of Subcontractor Records  
Review of ORAUT-OTIB-0081, Revision 03  
Review of Neptunium White Papers**

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**Status Briefing to the  
Advisory Board on Radiation and Worker Health  
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# Review of Subcontractor Records for Completeness

- SRS subcontractor records not yet validated and verified (V&V) for adequacy and completeness.
- In 2014, learned that subcontractor records kept separately in “company files” and migrated to electronic databases in mid/late 1980s.
- NIOSH has not been able to V&V these records via NOCTS and U.S. Department of Labor databases.
- SC&A concerns two-fold:
  1. How complete are company files, particularly beyond 1980s when more work was outsourced?
  2. To what extent was internal dose information for subcontractors migrated to SRS databases being used by NIOSH, and can complete bioassay results be found for subcontractor where indicated?

# NIOSH Current Review

- Some 3,000 pages of construction job plans found for 773A for 1981–1985.
- As briefed in July 2016, NIOSH intends to identify subcontractors from these job plans, select a suitable sample, and ascertain whether matching bioassay records exist.
- Advisory Board members expressed concern over scope of sampling review and whether this level of V&V would suffice, given the broad scope of operations and time periods at SRS.

# Status

- **SC&A tasked with expanding scope of V&V sampling to encompass additional time periods and facilities/operations at SRS.**
- **Progress to date:**
  - Used SRS online secure document search system (EDWS) to identify safe work permits, construction job plans, and any rosters including Construction Trade Worker (CTW) subcontractors, with focus on 1980–1995, with expanded focus on diverse operations and facilities such as D&D, tank farms, canyons, etc.
  - Submitted data capture request based on search to SRS for box pulls.
  - Two onsite visits completed: Feb. 13–16 and Feb. 27–Mar. 2, 2017.
  - Screened boxes and selected relevant records containing CTW subcontractor ID information and Radiation Work Permits (RWPs).
  - Matched subcontractor personnel with both SRS electronic dose records database (ProRad), and individual hard files and microfiche record files; ascertained subcontractor status via payroll codes and company names.

# Expanded Scope

## **SRS Operations/Facilities:**

FB-Line, 321-M, 20-CP, 300 Area, C005, B005, 105K, 221H, K Area, C Area, 105L, 105P, 410N, C-154, C-134, C-158, E071, F151, F-cell, 690N, 313

## **Timeframe:**

1976, 1982

1985–1987

1989–1995

## **CTW subcontractors identified to date:**

Bechtel (BSRI), MK Construction, Raytheon, Miller and Dunn, North Brothers, EBASCO, UESC

# CTW Crafts Covered

- Construction (general)
- Pipefitters
- Electricians
- Painters
- Carpenters
- Pipefitters
- Laborers
- Boilermakers
- Millwrights
- Riggers
- Sheet Metal Workers
- Transportation
- Quality Control

# “Early” Preliminary Results

- 360 subcontractors identified and reviewed to date.
- Subcontractor workers not found in SRS records (ProRad, hard file, microfiche): 29 (8%).
- Likely bioassay mismatches identified (between corresponding RWP and bioassay timeframes; needs further follow-up).
- Documentation (RWPs and bioassay records) currently being reviewed by SRS classification office.
- Upon release of records, SC&A will conduct further review and more fully validate subcontractor status, RWP status, and matching timeframes of RWPs and bioassays.
- SC&A will report its formal review, with supporting documentation, to the SRS Work Group on an expedited basis.

# Additional SRS Activities Update

- **Neptunium, Specific Taskings:**

- **ORAUT-RPRT-0065:** *Evaluation of Neptunium Operations at Savannah River Site* (Effective 9/19/2016) → SC&A review in internal comment phase (expected delivery in late March 2017)
- **ORAUT RPRT-0077:** *Evaluation of Health Physics Area and Health Physics Department Codes to Identify Neptunium Workers at the Savannah River Site* (Effective 11/8/2016) → SC&A review in internal comment phase (expected delivery in late March 2017)
- **ORAUT RPRT-0080:** *Potential Neptunium Exposure to Plutonium Fuel Facility Construction Workers in Building 235-F at the Savannah River Site* (Effective 2/7/2017) → expected delivery in June 2017

- **Coworker Modeling:**

- **ORAUT-OTIB-0081, Rev. 03:** *Internal Coworker Dosimetry Data for the Savannah River Site* (Effective 12/5/2016) → SC&A focused review to be delivered to SRS Work Group in late March 2017