

**MATERIAL RELEASE WORK PLAN**  
**SONGS Tools and Equipment for Auction**

**NN-202803980**

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Radiation Protection (RP) procedure, SO123-VII-20.9.2, Material Release Surveys, provides for, in Section 6.7, the use of a material release work plan to “define the type and extent of measurements taken on large or complex release projects.”

This document provides the plan for a confirmatory sweep of the major inventory areas supporting the release of equipment, tools, and other items as part of the auction for disposition of SONGS inventory. Guidance for this document was derived from the procedure.

**SURVEY LOCATIONS:**

The major tool inventory locations for the auction are all outside Radiologically Controlled Areas (RCA) and include:

- South Yard Facility
- Mesa Buildings G49, G20, G40

**SURVEY METHODOLOGY:**

- Randomly select items for survey in a given area (for example, 10 tools on a workbench or 10% of a large box full of small tools)
- Survey using a SPA-8 or frisker for identifying suspect items
- Confirm with frisker and smears
- Look for magenta paint added to identify older tools restricted to use within the RCA
- Document surveys on survey maps with a rough estimate of the total number of tools/items surveyed in each location, total number of tools in the area, RP Tech name, date and time
- As these items are already outside the RCA, assumed to be uncontaminated, and are only being checked as a final confirmation for unconditional release, triangle-of-defense requirements are not necessary

**ACTIONS:**

- If any item is found to have detectable radioactivity above background (not associated with natural radioactivity) or magenta paint (not a manufactured color), document the location, date and time, RP Technician name, photograph the tool/item in the work area if possible
- Confiscate the item and isolate it in a controlled location away from public access
- Report to RP Supervision to determine corrective actions and further activities

- Follow-up actions, assigned by RP Supervision, may include taking the item to the 70' Radwaste Control Point and requesting a qualitative Chemistry analysis for photopeaks (specifying a 300 second count time)
- Magenta paint on an item that is free of plant-related radioactivity, may be auctioned off without restrictions

RECORDS:

- Document results of surveys in this NN. If supplementary samples beyond those required by this plan are taken and analyzed, results should be documented in this NN.

Note: A uniform sampling program is not required because these surveys are not conducted to satisfy the unconditional release of tools and equipment from an RCA but only to confirm that tools and equipment already outside the RCA are uncontaminated. Therefore, random selections and spot checking representative items are acceptable. 100% surveys are not required.

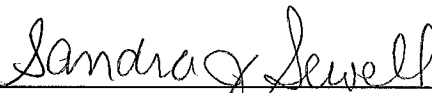
Material Release Work Plan drafted by



March 11, 2014

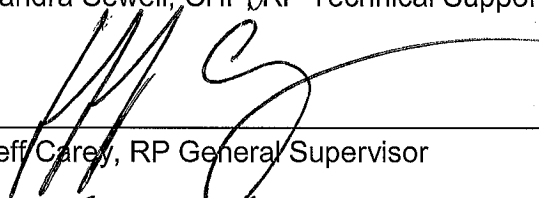
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**ADDENDUM**

**Survey Guidance:**

- For obviously used tools and equipment, survey a random selection, target 10% of items in a box or container
- For obviously new tools and equipment, spot check surfaces or use a SPA-8 over an inventory
- Survey items in side rooms including the weld shop, rigging shop, refueling mock-up shop, and machine shop cage
- Take smears of channels in stationary machines to ensure no contaminated equipment was worked on the machines leaving radioactive debris

**Documentation:**

- Document surveys completed by identifying types of tools/equipment in each box or container
- Record survey results as “no detectable” or “ND” with a notation of the background level specific to the instrument used
- If feasible, photograph the surveyed item or box and attach that to the survey
- Provide as much detail as necessary to identify items surveyed. For example, for a large stationary machine, describe machine (e.g. lathe, mill, drill press) and Lot number. For a box of tools, identify tool type (e.g. combination wrenches, taps, screwdrivers) and Lot number