

ABRWH Potential SC&A Review Taskings for January 25, 2017

The Procedures Subcommittee recommends the following 2 procedures be tasked to SC&A for review:

- ORAUT-OTIB-0044: Historical Evaluation of the Film Badge Dosimetry Program at the Y-12 Facility in Oak Ridge, Tennessee: Part 1 – Gamma Radiation (ORAUT 2013a). This replaced OTIB-0013 of 2004 for individual workers’ dose adjustments. The Subcommittee reviewed OTIB-0013. OTIB-0044 is a substantial revision of the methods.
- ORAUT-OTIB-0064: Coworker External Dosimetry Data for the Y-12 National Security Complex (ORAUT 2013b). This replaced PROC-0042 of 2004 for coworker dose assignments. The Subcommittee reviewed PROC-0042. OTIB 0064 is a substantial revision of the methods.

For the following four PERs, the Subcommittee recommends the PER be reviewed as well as the full DR methodology for three of these, all except Bridgeport Brass. The DR methodology has yet to be reviewed by SC&A for these other three sites. See recommendation notes in this regard.

PER Description	Doses Changes	Cases Impacted	SC&A’s Recommendation
<p>DCAS-PER-059: “Norton Company” Effective Date: 4/24/2015</p> <p>No TBD exists for Norton Company. However, a ‘DR Methodology Template’ was used for completing claims, which has been modified.</p>	<p>Changes to the template include the addition of a class of employees to the SEC based on NIOSH’s inability to estimate internal and external dose between 1/1/1945 and 10/10/1962. Also, contamination depletion rates changes during the residual period starting 10/10/1962 causing an increase in dose.</p>	<p>54 initially identified cases. <u>43 cases</u> remained after removing claim that had employment only prior to 1962.</p>	<p>SC&A recommends that the PER be reviewed, since the dose reconstruction methodology used in the template has not been previously evaluated by the Board.</p>
<p>OCAS-PER-061: “Bridgeport Brass Company” Effective Date: 6/5/2015</p> <p>The TBD covers operations at the Bridgeport Brass Havens Laboratory in Bridgeport, CT as well as the Adrian Facility in Adrian, MI. This revision (Rev. 2) was issued due to a change in the facility designation for the Adrian Facility by the DOL.</p>	<p>Primary changes include (1) external dose was analyzed using OTIB-0020 in Rev. 1 of the TBD and using a Monte Carlo approach in Rev. 0, and (2) thorium intakes in Rev. 1 were assigned based on air samples, and, in Rev. 0, thorium intakes were assigned as a fraction of the uranium intake.</p>	<p>14 cases identified at Haven’s Lab; 36 cases at Adrian Facility. All <u>50 cases</u> were reevaluated.</p>	<p>SC&A recommends that this PER be reviewed, since the only review of these facilities has been performed under an expanded review of a DR audit performed in May 2008.</p>

PER Description	Doses Changes	Cases Impacted	SC&A's Recommendation
<p>DCAS-PER-063: "Aluminum Company of America – Pennsylvania (ALCOA-PN)" Effective Date: 6/15/2015</p> <p>DRs are performed using Appendix R of Battelle-TBD-6000. Revision 1 of TBD-6000 was issued to incorporate OTIB-0070 and other changes.</p>	<p>Revision 1 increased inhalation, ingestion, and external photon dose during the operation period.</p>	<p>44 cases initially identified. <u>35 cases</u> were reevaluated.</p>	<p>SC&A recommends that this PER be reviewed, since the Board has not previously evaluated the ALCOA-PN DR methodology.</p>
<p>DCAS-PER-065: "Anaconda" Effective Date: 11/30/2015</p> <p>DRs are performed using Appendix G of Battelle-TBD-6000. Revision 1 of TBD-6000 was issued to incorporate change to TBD-6000 and to make dose estimates more consistent with existing techniques.</p>	<p>External photon doses increased for all job categories in all years of operations.</p>	<p><u>10 cases</u> identified and reevaluated.</p>	<p>SC&A recommends that this PER be reviewed, since the Board has not previously evaluated the Anaconda DR methodology.</p>