

Division of Compensation Analysis and Support Program Evaluation Report	Document Number: DCAS-PER-056 Effective Date: 9/12/2014 Revision No. 0
BWXT Virginia	
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RECORD OF ISSUE/REVISIONS			
ISSUE AUTHORIZATION DATE	EFFECTIVE DATE	REV. NO.	DESCRIPTION
9/12/21014	9/12/2014	0	New document to determine the effect on previously completed claims due to changes in methods used in BWXT claims.

1.0 Description

No Technical Basis Document was written for the BWXT site. However, methods used in one dose reconstruction were often carried forward to the next as applicable. Many of these utilized the ORAUT-OTIB-00070 depletion factor. OTIB-0070 was revised on 3/5/2012, and this revision could affect previously completed BWXT claims. The OTIB-0070 factors only affect dose reconstruction during residual contamination periods. BWXT has three separate contract periods with residual contamination periods after each. The residual contamination periods include the following years: 1960-1967, 1973-1984, and 2002- March 1, 2011.

Also, in 2010 an SEC was designated for BWXT that covered 1959 and 1968 through 1972. In 2011 an additional SEC covering 1985 through 11/30/1994 was designated.

2.0 Issue Evaluation

The depletion factor in ORAUT-OTIB-0070 is used to estimate the reduction in contamination levels during the residual period. The revision to OTIB-0070 changed this factor so that the contamination level is assumed to decrease more slowly. This results in an increase in the dose estimate for most years of the residual period.

3.0 Plan for Resolution or Corrective Action

The population of potentially affected claims includes those with employment in any of the residual contamination periods that were completed prior to the 3/5/2012 revision to OTIB-0070. A search of claims completed prior to that date with a probability of causation (POC) below 50% resulted in a list of 82 claims. A review of each claim indicated that four had employment only during the contract periods and were not

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affected by OTIB-0070. Those four claims were removed from further evaluation, leaving 78 claims.

The doses for all 78 claims were recalculated using the revised OTIB-70 depletion factor. No claim had a probability of causation of greater than or equal to 50% as a result of this reanalysis. One claim, however, had probability of causation between 45% and 50%. For that claim, the IREP program was run 30 times at 10,000 iterations in accordance with NIOSH procedures. The probability of causation remained below 50%.

NIOSH will provide the Department of Labor with the list of all the claims evaluated under this PER. Since all claims were below 50%, NIOSH will not request the return of any of the claims.