

**Division of Compensation Analysis and
Support
Program Evaluation Report**

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Effective Date: 01/08/2018
Revision No. 0

United Nuclear Corporation

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Approval: Signature on file Date: 1/8/2018
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RECORD OF ISSUE/REVISIONS

ISSUE AUTHORIZATION DATE	EFFECTIVE DATE	REV. NO.	DESCRIPTION
01/08/2018	01/08/2018	0	New document to determine the effect of revisions to DCAS-TKBS-0008 (United Nuclear Corporation TBD) on previously completed claims.

1.0 Description

A United Nuclear Corporation (UNC) site specific appendix to Battelle-TBD-6001 (Appendix D) was issued on 3/14/2008. This appendix was revised on 4/30/2010 and then superseded by a stand-alone Technical Basis Document (TBD) on 3/21/2011 (DCAS-TKBS-0008 rev. 0). This TBD was then revised on 2/21/2017 (revision 1).

The effect of these revisions on previously completed claims is the subject of this PER.

2.0 Issue Evaluation

Revision 1 of Appendix D increased neutron, photon and beta doses during the operational period as well as adding thorium intakes in 1964. When the Appendix was converted to a stand-alone TBD (DCAS-TKBS-0008) no changes were made to the dose estimates. However, revision 1 of DCAS-TKBS-0008 increased uranium intakes in 1960-1962. This revision also increased uranium intakes during the residual period.

The overall effect of the revisions are that at least one aspect of the dose estimate increased each year during the operational and residual periods. Therefore, all previously

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completed claims with employment at UNC will be reevaluated under this Program Evaluation Report (PER).

3.0 Plan for Resolving Corrective Action

A search of the NIOSH Claims Tracking System (NOCTS) database identified 37 claims with UNC employment that had a probability of causation (POC) of less than 50%. Three of these claims had been completed after revision 1 of Appendix D was issued and had no employment in the residual period or the 1960-1962 period. Therefore, they were unaffected by the additional revisions and were eliminated from further evaluation. Another claim met the same criteria but did have some employment in the residual period. The dose reconstruction was reviewed and determined that it was not affected by additional revisions so it was also removed from further evaluation. One additional claim was determined to have been pulled from dose reconstruction because it qualified as a member of the special exposure cohort (SEC). This case was removed from further evaluation since the compensability of the claim no longer depended on a dose reconstruction.

As a result of the search, 32 claims were found that needed further evaluation. The doses for each of the 32 remaining cases were recalculated using revision 1 of the UNC TBD (DCAS-TKBS-0008), as well as the current revision of any other applicable documents.

Of the 32 claims, 31 resulted in a new POC below 45% and one resulted in a POC greater than 52%. NIOSH will provide the Department of Labor with the list of all the claims evaluated under this PER. Further, NIOSH will request the return of the 1 claim that would now result in a probability of causation greater than 50%.