

Office of Compensation Analysis and Support
Program Evaluation Report

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Chapman Valve TBD Revision

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RECORD OF ISSUE/REVISIONS

ISSUE AUTHORIZATION DATE	EFFECTIVE DATE	REV. NO.	DESCRIPTION
9/20/2007	9/20/2007	0	New document to determine which previously completed claims require evaluation for the effect of revising the Chapman Valve TBD.

1.0 Description

The Chapman Valve Technical Basis Document (ORAUT-TKBS-0033) was revised on 10/16/2006. The original version was issued on 2/22/2005. Prior to that, ORAUT-OTIB-0004 was used as an overestimating approach on some claims.

2.0 Issue Evaluation

The revisions to the Chapman Valve TBD revised the Dose Reconstruction methodology for internal dose. Revision 1 provides a constant intake of uranium while revision 0 provided for a lognormal distribution of intakes. The constant value in revision 1 falls between the 50th and the 95th percentile of the revision 0 distribution. It is therefore difficult to determine the effect on dose and probability of causation without a new dose estimate.

Prior to revision 0, ORAUT-OTIB-0004 was used to overestimate some claims. The values in Revision 1 are below those in ORAUT-OTIB-0004 so there is no need to reconsider claims completed using this document.

3.0 Plan for Resolution or Corrective Action

There were 31 Chapman Valve claims completed with a probability of causation below 50% prior to the revision to the TBD. Twenty one of these were completed using ORAUT-OTIB-0004. Since that document describes a higher dose estimate than the revision to ORAUT-TKBS-0033, no further evaluation is necessary for those claims. The remaining 10 Chapman Valve claims were completed using revision 0 of the Technical Basis Document. NIOSH is requesting that these claims be returned for a new dose estimate. A new dose reconstruction will be completed for each of the claims using the latest revision to the Chapman Valve TBD.