

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

Document Number: DCAS-PER-033
Effective Date: 12/9/2011
Revision No. 0

Reduction Pilot Plant TBD Revision

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RECORD OF ISSUE/REVISIONS

ISSUE AUTHORIZATION DATE	EFFECTIVE DATE	REV. NO.	DESCRIPTION
12/9/2011	12/9/2011	0	New document to determine affect of revising the Reduction Pilot Plant TBD on previously completed claims.

1.0 Description

The Reduction Pilot Plant¹ Technical Basis Document (OCAS-TKBS-0004) was issued on 8/13/2008. This document superseded the Oak Ridge Associated University versions of this TBD (ORAUT-TKBS-0004).

2.0 Issue Evaluation

Several changes in the Dose Reconstruction methodology occurred in this revision to the TBD. Most changes reflect a decrease in the estimated dose. However, the estimate of internal dose increased from 1956 through 1963 and for 1978 and 1979. The inhalation estimate for operators went from approximately 3.83 pCi/day (1400 pCi/yr) to 44 pCi/day. The original intake was the geometric mean of a lognormal distribution with a geometric standard deviation of 4.3. The new estimate is a single bounding value.

While the internal dose estimate increased, other exposure pathways decreased. Due to the nature of some of the changes, the magnitude of the effect on individual dose estimates will vary from claim to claim.

3.0 Plan for Resolution or Corrective Action

3.1 Determining the potential population of claims

¹ The Department of Labor changed the name of this site from the Huntington Pilot Plant to the Reduction Pilot Plant. The name change does not affect the NIOSH dose reconstruction. Therefore, the names are used interchangeably in this document.

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The criteria used to determine the population of claims potentially affected by this revision are:

1. Probability of Causation (PC) less than 50%;
2. Most recent version of the dose reconstruction approved by DCAS on or prior to August 13, 2008
3. Employed at the Reduction Pilot Plant between 1956 and 1963 or during 1978 or 1979.

These criteria were used to generate the list of 32 potentially affected claims.

3.2 Determination of claims which will not change due to TBD revision.

The dose for each of the 32 claims was recalculated using all current dose reconstruction methods including the current version of the TBD. From that recalculated dose, a new probability of causation was determined. The table below shows the results of the original and revised PC.

Claim	Original PC (%)	Revised PC (%)
A	0.6	3.06
B	1.14	0.3
C	1.43	8.47
D	1.53	0.95
E	1.9	2.06
F	2.17	0.37
G	3.37	0.71
H	3.4	1.69
I	4.19	0.7
J	4.82	1.16
K	5.32	1.56
L	6.85	2.36
M	9.92	2.36
N	11.82	9.6
O	11.86	2.87
P	13.45	3.92
Q	13.8	12.04
R	13.85	21.63
S	16.07	3.27
T	16.39	27.43
U	18.34	24.86
V	19.02	38.31
W	20.2	39.31
X	21.2	38.25

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Y	24.12	33.57
Z	27.53	44.96
AA	33.94	42.17
AB	36.87	15.75
AC	37.22	5.86
AD	39.18	1.47
AE	39.2	22.55
AF	46.98	26.49

The TBD revision resulted in an increase in the PC for 12 of the 32 claims (37.5%) while the PC decreased for the remaining 62.5% of the claims. The highest revised PC did not exceed 50%. Therefore, NIOSH will not ask DOL to return any of the previously completed Reduction Pilot Plant claims based on the revision to the TBD.