



ORAU TEAM Dose Reconstruction Project for NIOSH

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Subject Expert: Edward D. Scalsky	
Document Owner	
Approval: <u>Signature on File</u> Edward D. Scalsky, TBD Team Leader	Approval Date: <u>08/15/2005</u>
Approval: <u>Signature on File</u> Judson L. Kenoyer, Task 3 Manager	Approval Date: <u>08/15/2005</u>
Concurrence: <u>Signature on File</u> Richard E. Toohey, Project Director	Concurrence Date: <u>08/16/2005</u>
Approval: <u>Signature on File</u> James W. Neton, Associate Director for Science	Approval Date: <u>08/22/2005</u>

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PUBLICATION RECORD

EFFECTIVE DATE	REVISION NUMBER	DESCRIPTION
06/21/2005	00-A	New document to describe the contents of the Pacific Northwest National Laboratory Site Profile. Initiated by Edward D. Scalsky.
08/01/2005	00-B	Replacement for Rev 00-A to refer dose reconstructors to the Hanford Technical Basis Documents for information concerning the Medical, Environmental, Internal, and External programs related to dose reconstruction. Initiated by Edward D. Scalsky.
08/05/2005	00-C	Incorporates NIOSH review comments. Initiated by Edward D. Scalsky.
08/22/2005	00	First approved issue. Training required: As determined by the Task Manager. Initiated by Edward D. Scalsky.

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ACRONYMS

EEOICPA	Energy Employees Occupational Illness Compensation Program Act of 2000
MDA	minimum detectable activity
NIOSH	National Institute for Occupational Safety and Health
PNNL	Pacific Northwest National Laboratory
TBD	technical basis document
U.S.C.	United States Code

1.1 INTRODUCTION

Technical Basis Documents (TBDs) and Site Profile Documents are general working documents that provide guidance concerning the preparation of dose reconstructions at particular sites or categories of sites. They will be revised in the event additional relevant information is obtained about the affected site(s). These documents may be used to assist the National Institute for Occupational Safety and Health (NIOSH) in the completion of the individual work required for each dose reconstruction.

In this document the word "facility" is used as a general term for an area, building, or group of buildings that served a specific purpose at a site. It does not necessarily connote an "atomic weapons employer facility" or a "Department of Energy facility" as defined in the Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA), 42 U.S.C. § 73841(5) and (12).

1.2 SITE PROFILE DESCRIPTION

This Site Profile consists of this Introduction, and five TBDs (ORAUT 2005a, 2005b, 2005c, 2005d, 2005e).

The Site Description TBD (ORAUT 2005a) briefly describes the facilities and processes of Pacific Northwest National Laboratory's (PNNL) primary mission, which originally was research and development of nuclear energy and other peaceful uses of nuclear materials. PNNL operated seven testing, research, and demonstration reactors; several fuel fabrication facilities; a plutonium fuels pilot plant; a radiological calibration and development laboratory; and a radiochemistry laboratory in the 300 Area of the Hanford site. In addition, PNNL operated other facilities for testing chemical process improvements, materials and engineering studies, pile physics technology and metallurgical studies, post irradiation testing, environmental and bioassay programs, and many other research programs. Not all of these programs were necessarily in the 300 Area.

The Occupational Medical Dose, Occupational Environmental Dose, Occupational Internal Dose and the Occupational External Dosimetry programs at the PNNL are the same programs that existed at Hanford subsequent to 01/03/1965 when Battelle Memorial Institute (BMI) assumed responsibility for operation of the Hanford Laboratories and certain Hanford-wide services and functions as part of the Atomic Energy Commission (AEC) operations at the Hanford site. Since that is the case, it has been determined that any dose reconstructions that incorporate the dose received by PNNL employees as a result of required medical x-ray examinations, environmental releases, or from internal or external exposure to radiation will be determined based on the programs described in the corresponding Hanford TBDs (ORAUT 2003a, 2003b, 2004a, 2004b) and any associated attachments (ORAUT 2003c, 2004a).

The four PNNL TBDs have been revised to instruct dose reconstructors to refer to the equivalent Hanford TBDs for information needed to perform dose reconstructions for PNNL employees after 01/03/1965.

REFERENCES

- ORAUT (Oak Ridge Associated Universities Team), 2005a, *Technical Basis Document for the Pacific Northwest National Laboratory – Site Description*, ORAUT-TKBS-0027-2, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2005b, *Technical Basis Document for the Pacific Northwest National Laboratory – Occupational Medical Dosimetry* ORAUT-TKBS-0027- 3, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2005c, *Technical Basis Document for the Pacific Northwest National Laboratory – Occupational Environmental Dosimetry*, ORAUT-TKBS-0027-4, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2005d, *Technical Basis Document for the Pacific Northwest National Laboratory – Occupational Internal Dosimetry*, ORAUT-TKBS-0027-5, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2005e, *Technical Basis Document for the Pacific Northwest National Laboratory – Occupational External Dosimetry*, ORAUT-TKBS-0027-6, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2003a, *Technical Basis Document for the Hanford Site – Occupational Medical Dose* ORAUT-TKBS-0006- 3, Rev. 01, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2003b, *Technical Basis Document for the Hanford Site – Occupational Environmental Dose*, ORAUT-TKBS-0006-4, Rev. 00, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2003c, *Technical Basis Document for the Hanford Site – Attachment A, Occupational Environmental Dose*, ORAUT-TKBS-0006-4, Rev. 00, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2004a, *Technical Basis Document for the Hanford Site – Occupational Internal Dose*, ORAUT-TKBS-0006-5, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2004b, *Technical Basis Document for the Hanford Site – Attachment D Occupational Internal Dose*, ORAUT-TKBS-0006-5, Rev. 0, Oak Ridge, Tennessee.
- ORAUT (Oak Ridge Associated Universities Team), 2004a, *Technical Basis Document for the Hanford Site – Occupational External Dosimetry*, ORAUT-TKBS-00006-6, Rev. 01, Oak Ridge, Tennessee.