



DOE Openness: Human Radiation Experiments: Roadmap to the Project



Uranium Miners Resources

[HOME](#)
[ROADMAP](#)
[WHAT'S NEW](#)
[MULTIMEDIA](#)
[RELATED SITES](#)
[FEEDBACK](#)
[DOE Roadmap](#)
[Experiments List](#)
[Oral Histories](#)
[Records Series
Descriptions](#)
[Overview
Documents](#)
[Declassified
Documents](#)
[Project Events](#)
[ACHRE Report](#)

Uranium Miners
Resources

[Building Public
Trust](#)
[Department of
Defense Report](#)

FINAL REPORT OF THE RADIATION EXPOSURE COMPENSATION ACT COMMITTEE

SUBMITTED TO THE HUMAN RADIATION INTERAGENCY WORKING GROUP



JULY, 1996

CONTENTS

[Executive Summary](#)

[Proposed Amendments to the Statute](#)

[Recommended Modifications to the Department of Justice](#)

[Regulations](#)

[Introduction](#)

[Issues Relating to Compensation for Lung Cancer](#)

[Statutory and Regulatory Framework for Compensation](#)

[Fairness of the Present Statutory Compensation Criteria](#)

[Alternative Compensation Criteria](#)

[Description of the Relative Risk Model Used to Derive](#)

[Proposed Alternative Criteria, and Model Parameters](#)

[Proposed Alternative Compensation Criteria](#)

[Proposed Modifications to the Definition of Smoking in
the Regulations](#)

Navajo and Smoking
Cessation of Smoking
Comparison of the Compensable Risk Thresholds Required of Uranium Miners and Downwinders

Issues Relating to Compensation for Nonmalignant Respiratory Diseases

Statutory and Regulatory Background
Recommendations Regarding Statutory Compensation Criteria
Proof of Radon Progeny Exposure as a Condition for Compensation for Pulmonary Fibrosis
Proof of Radon Exposure as a Condition for Compensation for Silicosis or Pneumoconiosis
Recommendations for Modification of the Existing Regulations Governing Proof of a Nonmalignant Respiratory Disease
Requirement That Claimant Prove Functional Impairment in Addition to the Presence of Disease
Regulations Governing Proof of Disease Process
Regulation Requiring Proof of Disease Process Where a Claimant Can Prove Impairment
Lack of Authority in the Regulations for Proof of Disease By HRCT Scans
Lack of Authority in the Regulations for Proof of Disease By Biopsy in Living Miners
Requirement That Chest Radiographs Be Interpreted Only By "B"-Readers
Regulations Regarding Proof of Impairment
Pulmonary Function Test Standards
Required Reduction in Lung Function to Qualify as Impaired

Appendix A. Establishment of Data-Based Criteria for Radon-Associated Lung Cancer

Introduction
Scientific Basis for the Association of Radon Progeny Exposure and Lung Cancer
Effects of Radon Progeny in Underground Miners
Effects of Smoking on Risk of Lung Cancer Due To Radon Progeny Exposure
Effect of Radon Progeny Exposure in Native Americans
Cohort Studies of U.S. Uranium Miners
Colorado Plateau Uranium Miners
New Mexico Uranium Miners
Material and Methods of Analysis

[Topic 1: Modeling Lung Cancer Risk and WLM](#)
[Topic 2: Cigarette Smoking and Lung Cancer Risk Due To Radon](#)
[Topic 3: Radon Risk Among Native Americans](#)
[Topic 4: Risk Modeling Based on Duration of Exposure and Year First Exposed](#)
[Topic 5: Comparisons PCs for Data-Based Risk Model and RECA-Based Models](#)
[Development of Model-Based Compensation Criteria](#)

Figures

[Figure 1: Mean levels of radon decay products measured in Working Levels \(WL\) in uranium mines surveyed during the periods 1950-1969](#)

[Figure 2: Number of measurements of radon decay products in uranium mines surveyed during the period 1950-1969](#)

[Figure 3: Comparison of \$PC_{RECA}\$ and \$PC_{WLM}\$](#)

[Figure 4: \$PC_{WLM}\$ by cumulative radon progeny exposure](#)

[Figure 5: Comparison^s of \$PC_{WLM}\$ and \$PC_{dur}\$](#)

Tables

[Table 1](#)

[Table 2](#)

[Table 3a](#)

[Table 3b](#)

[Table 3c](#)

[Table 4a](#)

[Table 4b](#)

[Table 4c](#)

[Table 5a](#)

[Table 5b](#)

[Table 5c](#)

[Table 6a](#)

[Table 6b](#)

[Table 6c](#)