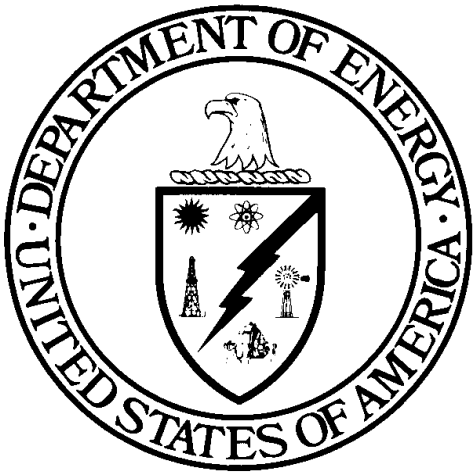
Title 40 CFR Part 191
Subparts B and C
Compliance Recertification
Application
for the
Waste Isolation Pilot Plant

Appendix PEER-2004



United States Department of Energy
Waste Isolation Pilot Plant

Carlsbad Field Office
Carlsbad, New Mexico

Appendix PEER-2004

FOREWORD

Appendix PEER-2004 contains primarily the documents related to peer reviews performed after the submission of the Compliance Certification Application (CCA). The documents included in CCA Appendix PEER are not repeated in this Appendix, with one exception. All documents related to the Conceptual Models Peer Review (CMPR), contained in Appendix PEER are copied in Appendix PEER-2004. This is because the peer review panel, whose work was reported in CCA Appendix PEER, conducted three supplementary peer reviews after the submission of the CCA. Also, two peer reviews performed in 2003, while conducted by new peer review panels, are related to the CMPR panel's work performed in 1996-97.

In addition to the peer reviews conducted in accordance with NUREG-1297 in specific compliance with 40 CFR section 194.27 (a), CCA Appendix PEER included reviews performed by a number of review and oversight groups. This appendix includes additional reviews performed by the National Academy of Sciences (NAS), International Atomic Energy Authority (IAEA) and Nuclear Energy Authority (NEA) of the Organization for Economic Cooperation and Development (OECD), Institute for Regulatory Science (RSI), and Environmental Evaluation Group (EEG).

Chapter 9 of the Compliance Recertification Application (CRA) contains discussion of the peer review process and results, including detailed summaries of the peer reviews conducted since the submittal of the CCA in 1996.

Appendix PEER-2004 is divided into 38 attachments. These attachments break the appendix into major topical areas. Within each attachment there may be several documents of interest, as outlined in the Table of Contents.

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PEER-2004 4.4.3	EEG-66: Individual Radiation Doses from Transuranic Waste Brought to the Surface by Human Intrusion at the WIPP (February 1998)
PEER-2004 4.4.4	EEG-68: Evaluation of the WIPP Project's Compliance with the EPA Radiation Protection Standards for Disposal of Transuranic Waste (March 1998)
PEER-2004 4.4.5	EEG-69: Sensitivity Analysis of Performance Parameters Used in Modeling the Waste Isolation Pilot Plant (May 1998)
PEER-2004 4.4.6	EEG-75: Evaluation of Risks and Waste Characterization Requirements for the Transuranic Waste Emplaced in WIPP During 1999 (May 2000)
PEER-2004 4.4.7	EEG-77: Plutonium Chemistry Under Conditions Relevant for WIPP Performance Assessment. Review of Experimental Results and Recommendations for Future Work. (September 2000)
PEER-2004 4.4.8	EEG-82: Evaluation of Proposed Panel Closure Modifications at WIPP (December 2001)
PEER-2004 4.4.9	EEG-83: Identification of Issues Relevant to the First Recertification of WIPP (September 2002)
PEER-2004 4.4.10	EEG-85: Analysis of Emplaced Waste Data and Implications of Non-Random Emplacement for Performance Assessment for the WIPP (May 2003)
PEER-2004 4.4.11	EEG-86: Contact Handled Transuranic Waste Characterization Requirements at the Waste Isolation Pilot Plant (September 2003)