

**DOCKET NO: A-93-02 (CERTIFICATION RULEMAKING)
40 CFR 191 COMPLIANCE DETERMINATION FOR THE WASTE ISOLATION
PILOT PLANT (WIPP)**

**CATEGORY II-G: DEPARTMENT OF ENERGY'S COMPLIANCE CERTIFICATION
APPLICATION FOR THE WASTE ISOLATION PILOT PLANT**

NO.	Date Sent to Docket	COMMENTER/ADDRESSEE Title and/or Subject	Date of Document
II-G-1	11/04/96	Transmittal of DOE/CAO-1996-2184 Title 40 CFR Part 191 Compliance Certification Application for the Waste Isolation Pilot Plant, containing Vols. I - XXI and References as follows:	10/96
	Vol. I	Chapter 1 Chapter 2 Chapter 3 Chapter 4 Chapter 5 Chapter 6 Chapter 7 Chapter 8 Chapter 9	Introduction Site Characterization Facility Description Waste Description Quality Assurance Containment Requirements Assurance Requirements Individual and Groundwater Protection Requirements Peer Review
	Vol. II	Appendix AIC Appendix AUD Appendix BACK Appendix BECR Appendix BH	Active Institutional Controls Audits Control of the Chemical Environment Through Implementation of an MgO Backfill Material Biennial Environmental Compliance Report Borehole Data Report
	Vols. III-IV	Appendix BIR	Transuranic Waste Baseline Inventory Report

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Vol. V		Appendix BIR (cont.) Appendix BRAGFLO Appendix CCDFGF Appendix CLI Appendix CODELINK Appendix CUTTINGS Appendix D&D Appendix DEF Appendix DEL Appendix DMP	Transuranic Waste Baseline Inventory Report WIPP Performance Assessment User's Manual For BRAGFLO Design Document For CCDFGF and GRIDFLO Long-Term Climate Variability At the Waste Isolation Pilot Plant The WIPP 1996 Performance Assessment Codes and Their Linkages WIPP Performance Assessment User's Manual for CUTTINGS_S Conceptual Decontamination and Decommissioning Plan For the Waste Isolation Pilot Plant Deformation Delaware Basin Study Delaware Basin Drilling Monitoring Plan
Vol. VI		Appendix DVR	Design Validation Report
Vol. VII		Appendix DVR (cont.) Appendix EBS	Design Validation Report Engineered Alternatives Cost/Benefit Study
Vol. VIII		Appendix EBS (cont.) Appendix EMP Appendix EPIC Appendix FAC	Engineered Alternatives Cost/Benefit Study Waste Isolation Pilot Plant Environmental Monitoring Plan Effectiveness of Passive Institutional Controls In Reducing Inadvertent Human Intrusion Into the Waste Isolation Pilot Plant For Use In Performance Assessments Facies Variability and Post-Depositional Alterations Within the Rustler Formation In the Vicinity of the Waste Isolation Pilot Plant
Vol. IX		Appendix GCR	Geological Characterization Report

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	Vol. X	Appendix GENII Appendix GTMP Appendix GWMP Appendix HYDRO Appendix IRD Appendix IRES Appendix LMP Appendix MASS	WIPP Performance Assessment User's Manual PREGENII, WIPP User's Manual GENII Geotechnical Monitoring Plan Groundwater Surveillance Program Plan Geohydrology of the Proposed Waste Isolation Pilot Plant Site, Los Medanos Area Implementation of the Resource Disincentive In 40 CFR Part 191.14(e) At the WIPP Intermediate Results Land Management Plan Supplemental Information on Modeling Assumptions
	Vol. XI	Appendix MON Appendix NUTS Appendix PANEL Appendix PAR Appendix PCS	Preclosure and Postclosure (Long-Term) Monitoring Plan WIPP Performance Assessment User' s Manual For NUTS WIPP Performance Assessment User's Manual For PANEL Parameters Detailed Design Report For an Operational Phase Panel Closure System
	Vols. XII- XV	Appendix PEER	Peer Review
	Vol. XVI	Appendix PIC Appendix PORSURF Appendix QAPD Documents Appendix RBP Appendix SA Appendix SCR Appendix SEAL	Passive Institutional Controls Conceptual Design Report Porosity Surface Method Quality Assurance Program Statistical Summary of the Radiological Baseline Program For the WIPP Sensitivity Analysis FEPs Screening Waste Isolation Pilot Plant Shaft Sealing System Compliance Submittal Design Report

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	Vol. XVII	Appendix SECOFL2D Appendix SECOTP2D Appendix SER Appendix SMP Appendix SOTERM	WIPP Performance Assessment User's Manual For SECOFL2D WIPP Performance Assessment User's Manual For SECOTP2I WIPP Site Environmental Report Subsidence Monitoring Plan Source Term
	Vol. XVIII	Appendix SUM Appendix T-LD Appendix USDW Appendix VCOMP	Summary of Site-Characterization Studies Conducted From 1983 Through 1987 Generation of an Ensemble of Culebra Transmissivity Fields Conducted to Steady-State and Transient Pressure Data Using GRASP-INV Underground Sources of Drinking Water Volatile Organic Compound Monitoring Plan
	Vol. XIX	Appendix WAP Appendix WCA Appendix WCL Appendix WRAC	Waste Analysis Plan Waste Characterization Analysis Waste Component Limits Waste Removal After Closure
	Vols. XX- XXI	Appendix XRE	Reference Expansion
II-G-2	11/18/96	COMPLIANCE APPLICATION GUIDANCE (CAG) CHECKLIST for the Waste Isolation Pilot Plant	11/96
II-G-3	12/23/96	QA packages for 13 PA Codes (supplemental Information Supporting the DOE/WIPP Compliance Certification Application	11/96
	Vol I	ALGEBRACDB SRC - Software Requirements Checklist RD & VVP - Request Document & Verification and Validation Plan VD - Validation Document, Version 1.00 ID - Implementation Document for Version 2.35 BRAGFLO UM - User's Manual for BRAGFLO, Version 4.00	

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NO.	Date Sent to Docket	COMMENTER/ADDRESSEE Title and/or Subject	Date of Document
Vol. 2		BRAGFLO (Continued) RD&VV - Requirements Document & Verification & Validation Plan for BRAGFLO (Version 4.00) VD - Validation Document, version 1.00 ID - Implementation Document for BRAGFLO (Version 4.00) CCDF-GF UM - User's Manual for CCDFGF (Version 1.00) DD - Design Document for CCDFGF and GRIDFLO	
Vol. 3		CCDF-GF (continued) RD - Requirements Document for CCDFGF (Version 1.00) ID - Implementation Document for CCDFGF (Version 1.00) VVP - Verification and Validation Plan (VVP) for CCDFGF (Version 1.00) VD - Validation Document, Version 1.00	
Vol 4.		CUTTINGS-S UM - User's Manual for Cuttings-s, Version 5.03 RD & VVP - Requirements Document & Verification and Validation Plan for CUTTINGS-S (Version 5.03) ID - Implementation Document - Version 1.1 for Cuttings-s (Version 5.03) VD - Validation Document - Version 1.00 for CUTTINGS-S (Version 5.03) DRB-BRAGFLO V 4.01 RD/VVP - Requirements Document & Verification and Validation Plan- Version 1.1 for BRAGFLO (Version 4.01)	
Vol. 5		DRB-BRAGFLO V 4.01 (continued) VD-Validation Document Version 1.1 for BRAGFLO (Version 4.01) ID-Implementation Document-Version 1.1 for BRAGFLO (Version 4.01)	

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Vol. 6		FMT UM-User's Manual - Version 1.00 for FMT (Version 2.0) SR - Software Requirements Checklist ID - Implementation Document - Version 1.1 for FMT (Version 2.1) RD&VVP - Requirements Document and Verification And Validation Plan - Version 1.0 for FMT (Version 2.0) VD - Validation Document - Version 1.00 for FMT (Version 2.0)	
Vol. 7		GRASP-INV UM - User's Manual - Version 1.00 for GRASP-INV (Version 2.01) RD&VVP - Requirements Document and Verification and Validation Plan - Version 1.00 for GRASP-INV (Version 2.01) VD-Validation Document- Version 1.00 for GRASP-INV (Version 2.01)	
Vol. 8		GRASP-INV (continued) ID-Implementation Document-Version 1.00 for GRASP-INV (Version 2.01) LHS UM - User's Manual for LHS Version 2.41, Version 1.00 RD&VV - Requirements Document & Verification and Validation - Version 1.00 for LHS (Version 2.40) VD - Validation Document - Version 1.00 for LHS (Version 2.40) ID - Implementation Document - Version 1.00 for LHS (Version 2.41)	
Vol. 9		NUTS UM - User's Manual - Version 1.00 for NUTS (Version 2.02) RD&VVP - Requirements Document & Verification and Validation - Version 1.00 for NUTS (Version 2.02)	
Vol. 10		NUTS (continued) VD - Validation Document - Version 1.00 for NUS (Version 2.02) ID - Implementation Document - Version 1.1 for NUTS (Version 2.02)	

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	Vol. 11	<p>PANEL UM - User's Manual - Version 1.00 for PANEL (Version 3.60) RD&VVP - Requirements Document & Verification and Validation for PANEL (Version 3.60) VD - Validation Document for PANEL (Version 3.60) ID - Implementation Document - Version 1.0 for PANEL (Version 3.60)</p> <p>SANTOS QAD Quality Assurance Document - Version 1.00 for SANTOS (Version 2.0.0) V&QD - Verification and Qualification Document</p>	
	Vol. 12	<p>SECO FL2D UM-User's Manual for SECOFL2D, Version 3.01ZO, WPO 22329, September 28, 1995 RD&VVP - Requirements Document and Verification and Validation Plan for SECOFL2D Version 3.01ZO VD - Validation Document for SECOFL2D VERSION 3.01ZO ID - Implementation Documentation for SECOFL2D Version 3.01ZO</p> <p>SECOTP2D UM - User's Manual - Version 1.01 for SECOTP2D, Version 1.30 RD&VVP - Requirements Document and Verification and Validation Plan - Version 1.01 for SECOTP2D (Version 1.30) VD - Validation Document for SECOTP2D Version 1.21ZO ID -Implementation Document for SECOTP2D Version 1.21ZO</p>	
II-G-04	12/23/96	Analysis of Generation of Transmissivity Fields for the Culebra Dolomite, WPO #40517 Supporting the DOE/WIPP Compliance Certification Application	12/6/96
II-G-05	12/23/96	Analysis Package for BRAGFLO-WPO#40520, Supporting the DOE/WIPP Compliance Certification Application	12/96
II-G-06	12/23/96	Analysis Package for the Cuttings and Spalling Calculations - WPO #40527, Supporting the DOE/WIPP Compliance Certification Application (WPO #CORRECTION)	12/13/96

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II-G-07	1/06/97	Preliminary Summary of Uncertainty and Sensitivity Analysis Results Obtained in Support of the 1996 Compliance Certification for the WIPP	12/23/96
II-G-08	1/06/97	Analysis Package for the Salado Flow Calculations (Task 1) of the Performance Assessment Analysis - WPO #40514, Supporting the Compliance Certification Application	12/20/96
II-G-09	1/06/97	Analysis Package for the Salado Transport Calculations (Task 2) of the Performance Assessment - WPO #40515, Supporting the Compliance Certification Application	12/23/96
II-G-10	1/06/97	Analysis Package for the CCDF Construction (Task 7) of the Performance Assessment Analysis - WPO #40524, Supporting the Compliance Certification Application	12/20/96
II-G-11	01/15/97	Analysis Package of the Culebra Flow and Transport Calculations (Task 3) of the Performance Assessment Analysis - WPO #40516, Supporting the Compliance Certification Application Analysis - Plan 019	12/11/96
II-G-12	01/15/97	Waste Isolation Pilot Plant - Conceptual Models Supplementary Peer Review Report	12/96
II-G-13	01/15/97	Waste Isolation Pilot Plant - Engineered Systems Data Qualification Supplementary Peer Review Report	12/96
II-G-14	01/15/97	Waste Isolation Pilot Plant - Waste Characterization Analysis Supplementary Peer Review Report	12/96
II-G-15	01/15/97	Waste Isolation Pilot Plant - Passive Institutional Controls Supplementary Peer Review Report	12/96
II-G-16	02/06/97	Effectiveness of Passive Institutional Controls in Reducing Inadvertent Human Intrusion into the WIPP, WIPP/CAO-96-3168, Revision 1, November 14, 1996 with Addendum of December 6, 1996 (Transmittal letter filed A-93-02, II-I-05)	11/14/96

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II-G-17	3/26/97	Analysis Package for the BRAGFLO Sensitivity Study, WPO#43593, Revision #1, dated 3/11/97, entitled "Sensitivity of Flow, Transport, and Direct Brine Release to Grid Refinement Using the BRAFGFLO and NUTS Computer Models." (This document is filed with transmittal letter, see A-93-02, II-I-16.)	3/11/97
II-G-18	3/26/97	Analysis of Ground Water Travel Times through Calibrated Transmissivity Fields Generated by GRASP-INV, WPO#44199 (Version 2.01) Revision O, March 1997, with Appendix A - TCSTRIP UTILITY CODE VERIFICATION Rev. O, March 1997, and Appendix B - HDSTRIP UTILITY CODE VERIFICATION Rev O, March 1997 (Transmittal letter filed A-93-02, II-I-19).	3/97
II-G-19	5/1/97	Amendments to CAO Peer Review Management Plan and Peer Review Plans for: <ul style="list-style-type: none"> - Engineered Systems, Rev. 1, 6/25/96 - Passive Institutional Controls, Rev. 0, 5/28/96 - Conceptual Models, Rev. 0, 3/3/96 - Waste Characterization, Rev. 0, 6/27/96 	10/30/96
II-G-20	5/1/97	CAO Team Procedure, Revision 1 (TP No 10.5) for Peer Review	11/5/96
II-G-21	5/1/97	Waste Isolation Pilot Plant - Conceptual Models Second Supplementary Peer Review Report	1/97
II-G-22	5/14/97	Ltr/DOE-CAO/J.A. Mewhinney to EPA/F. Marcinowski transmitting the Final Report, Waste Isolation Pilot Plant, Conceptual Models Third Supplementary Peer Review Report, April 1997	5/8/97
II-G-23	6/18/97	DOE/CAO - Spalling Release Positions Paper: Description and Evaluation of a Mechanistically Based Conceptual Model for Spall-- prepared by Sandia National Laboratories and Carlsbad Technical Assistance Contractor	5/1/97
II-G-24	6/18/97	DOE - Final Report - Expert Elicitation on WIPP Waste Particle Size Distributions During the 10,000-year Regulatory Post-Closure Period	6/3/97

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II-G-25	6/25/97	Sandia National Laboratories - Waste Isolation Pilot Plant - Expedited CCA Activity - WPO #44158 Supplementary Analyses of the Effect of Salt Water Disposal and Waterflooding on the WIPP including: Atch 1: Injection Methods: Current Practices and Failure Rates in the Delaware Basin DOE.WIPP-97-2240, June 1997 Atch 2: Technical Review by Swift, et al of the HARTMAN Scenario: Implications for the WIPP by John Bredehoeft, June 13, 1997 (This document is filed with the transmittal letter at A-93-02, II-I- 36.)	6/17/97
II-G-26	7/29/97	Summary of EPA-Mandated Performance Assessment Verification Test (Replicate 1) and Comparison with the Compliance Certification Application Calculations	7/25/97
II-G-27	7/29/97	Memorandum to Docket No. A-93-02, Sandia National Laboratories - WIPP Records Center, with attachment entitled, "Process for Obtaining Additional WIPP Records that are Available through Sandia National Laboratories"	Not Dated
II-G-28	8/15/97	Supplemental Summary of EPA-Mandated Performance Assessment Verification Test (All Replicates) and Comparison with the Compliance Certification Application Calculations - WPO#46702	8/8/97
II-G-29	9/4/97	EPA Memo to files E.K. Forinash - Complete Compliance Certification Application	5/22/97
II-G-30	9/4/97	Summary of Uncertainty and Sensitivity Analysis Results for the EPA- Mandated Performance Assessment Verification Test - WPO #46912	8/22/97
II-G-31	9/4/97	CAO-94-1045: Performance Demonstration Program Plan for Nondestructive Assay for the TRU Waste Characterization Program. Revision 1 (Enclosure 2) (Transmittal letter with Enclosure 1 is filed docket A-93-02, II-I-51)	5/97
II-G-32	9/4/97	Information Sheet - How to Obtain Records at the U.S. Department of Energy's Carlsbad Area Office for the Waste Isolation Pilot Plant Compliance Certification Application, 97-006, 8/97	8/97

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II-G-33	9/4/97	WPO 46124 April 21, 1997 memorandum from Craig F. Novak to R. Vann Bynum " <i>Calculation of Actinide Solubilities in WIPP SPC and ERDA6 Brines Under MgO Backfill Scenarios Containing Nesquehonite or Hydromagnesite as the MgO-CO₃ Solubility-limiting Phase</i> ".	4/21/97
II-G-34	9/4/97	WPO 46646 June 27, 1997 memorandum from Yifeng Wang and Kurt Larson to Margaret Chu " <i>Estimate Waste Critical Shear Stress for WIPP PA Caving Model</i> "	6/27/97
II-G-35	9/4/97	WPO 46411 July 21, 1997 memorandum from S. Howarth and Palmer Vaughn to Margaret Chu " <i>Changes in Classification of Data Category' Column in the EPA Parameter Database</i> "	7/21/97
II-G-36	9/4/97	WPO 46936 August 5, 1997 memorandum from Yifeng Wang to Margaret CCU " <i>Estimate WIPP Waste Particle Sizes on Expert Elicitation Results: Revision 1</i> "	8/5/97
II-G-37	9/16/97	Transcripts for Sessions 1-8, Public Meetings held in Carlsbad, NM, May 5-7, 1997, regarding "Expert Elicitation on WIPP Waste Particle Diameter Size Distribution(s) During the 10,000-Year Regulatory Post-Closure Period" (Transmittal Letter filed A-93-02, Item II-I-61)	5/5-7/97
Supplement	9/29/97	Transcripts for Sessions 9-11, Public Meetings held in Carlsbad, NM, May 8-9, 1997, regarding "Expert Elicitation on WIPP Waste Particle Diameter Size Distribution(s) During the 10,000-Year Regulatory Post-Closure Period"	5/8-9/97
II-G-38	9/16/97	DOE/CAO-95-2119 - Generator Site Certification Guide, Revision 1	8/97
II-G-39	9/16/97	Summary of the EPA-Mandated Performance Assessment Verification Test Results for the Individual and Groundwater Protection Requirements, WPO#47258. (The transmittal letter is filed A-93-02, Item II-I-65)	9/12/97

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II-G-40	9/29/97	WPO#47309 - Summary of the EPA-Mandated Performance Assessment Results for Individual Protection Requirements: Estimated Doses to Internal Organs and Total Body from Groundwater Ingestion and to the Total Body from Beef Consumption, Vegetable Consumption and Inhalation of Soil (The transmittal letter is filed A-93-02, Item II-I-68)	9/29/97
II-G-41	9/29/97	WPO#47308 - Analysis Report of an Evaluation of the Dose Contribution of Electron and Photon Emissions to Critical Organs Related to Drinking Water Consumed for the Undisturbed Performance supporting the Compliance Certification Application (The transmittal letter is filed A-93-02, Item II-I-68)	9/29/97