

**Waste Isolation Pilot Plant  
 Necessary Information for the Hazardous Waste Facility Permit  
 Renewal Application — Part B  
 Maps and Illustrations**

Regulatory Citation	Requirement	Comment	Identification №
40 CFR §270.14(b)(19)	A topographic map showing a distance of 1,000 feet around the facility at a scale of 2.5 centimeters (1 inch) equal to not more than 61.0 meters (200 feet). Contours must be shown on the map. The contour interval must be sufficient to clearly show the pattern of surface water flow in the vicinity of and from each operational unit of the facility. For example, contours with an interval of 1.5 meters (5 feet), if relief is greater than 6.1 meters (20 feet), or an interval of 0.6 meters (2 feet), if relief is less than 6.1 meters (20 feet). Owners and operators of HWM facilities located in mountainous areas should use large contour intervals to adequately show topographic profiles of facilities. The map shall clearly show the following:	As the Waste Isolation Pilot Plant (WIPP) facility is a large facility consisting of 16 sections (each section containing 640 acres) several maps and figures were employed so that the information that is required by 40 CFR §270.14(b)(19) <i>et seq.</i> can be better illustrated. Map scale and contours are noted on the appropriate figures and maps. To place all information on one topographic map would make it difficult to review.  This table was provided to make it easier for the reviewer to locate the information.	Figure 2-3 This figure is shown under Tab Part A Appendices.
40 CFR §270.14(b)(19)(i)	Map scale and date	There are multiple maps and engineered drawings provided to illustrate the required information. All appropriate maps and figures depict map scale, date.  2007 CY – Active Mines and Inhabited Ranches within a 10-Mile Radius of the WIPP Facility	Figure 2-3. This figure is shown under Tab Part A Appendices.  Demographic A

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		2007 CY - Maximum Yearly Cattle Density within a 50-Mile Radius of the WIPP Facility	Demographic B
		2007 CY - Natural Gas Pipelines within a 5-Mile Radius of the WIPP Facility	Demographic C
		2000 CY – Population within a 50-Mile Radius of the WIPP Facility	Demographic D
		2007 CY – Acres Planted in Edible Agriculture and Commercial Crops within a 50-mile Radius of the WIPP Facility	Demographic E
		Major Parks and Recreation Areas in Lea and Eddy Counties, September 2009	Demographic F
		Land Withdrawal Area Location of Facilities	Drawing 23-C-007-W
		WIPP Site Facility Masterplan	Drawing 24-C-022-W
		Sanitary Sewage Lagoon Liner Replacement project, Site Plan and Details	Drawing 24-C-066-W1
		Salt Pile Infiltration Controls, New Design	Drawing 23-C-011-W1
		Underground Mine Plan Structure of Base of Orange Marker Band	Drawing 22-V-001-W

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40 CFR §270.14(b)(19)(ii)	100-year floodplain area	The WIPP facility is not in the 100-year floodplain	NA
40 CFR §270.14(b)(19)(iii)	Surface waters including intermittent streams	There are no surface waters or intermittent streams	NA
40 CFR §270.14(b)(19)(iv)	Surrounding land uses	<p>2007 CY - Mines and Inhabited Ranches within a 10-Mile Radius of the WIPP Facility</p> <p>2007 CY - Maximum Yearly Cattle Density within a 50-Mile Radius of the WIPP Facility</p> <p>2007 CY - Natural Gas Pipelines within a 5-Mile Radius of the WIPP Facility</p> <p>2000 CY – Population within a 50-Mile Radius of the WIPP Facility</p> <p>2007 CY – Acres Planted in Edible Agriculture and Commercial Crops within a 50-Mile Radius of the WIPP Facility</p> <p>Major Parks and Recreational Areas in Lea and Eddy Counties</p>	<p>Demographic A</p> <p>Demographic B</p> <p>Demographic C</p> <p>Demographic D</p> <p>Demographic E</p> <p>Demographic F</p>
40 CFR §270.14(b)(19)(v)	A wind rose	Wind Speed Report (meters/second), January 1, 2008 to December 31, 2008, Elevation 10.0 meters	Wind Rose
40 CFR §270.14(b)(19)(vi)	Orientation of the map	Each map contains a north orientation compass	See list in 40 CFR §270.14(b)(19)(i), (iv), and (v)

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40 CFR §270.14(b)(19)(vii)	Legal boundaries of the HWM facility site	Topographic Map with Underground Facilities and Land Withdrawal Area/Location of Facilities	Part A Application Figure 2-3
40 CFR §270.14(b)(19)(viii)	Access control	WIPP Site Facility Masterplan	Drawing 24-C-022-W
40 CFR §270.14(b)(19)(ix)	Injection and withdrawal wells both on-site and off-site	Topographic Map with Underground Facilities	Part A Application Figure 2-3
40 CFR §270.14(b)(19)(x)	Buildings; treatment, storage, or disposal operations; or other structure (recreation areas, runoff control systems, access and internal roads, storm, sanitary, and process sewerage systems, loading and unloading areas, fire control facilities, etc.)	WIPP Site Facility Masterplan  Underground Mine Plan Structure Contour of Base of Orange Marker Band  Sanitary Sewage Lagoon Liner Replacement Project Site Plan and Details  Salt Pile Infiltration Controls New Design	Drawing 24-C-022-W  Drawing 22-V-001-W  Drawing 24-C-066-W1  Drawing 23-C-011-W1
40 CFR §270.14(b)(19)(xi)	Barriers for drainage or flood control	Salt Pile Infiltration Controls New Design  WIPP Site Finish Grading and Paving	Drawing 23-C-011-W1  Drawing 24-C-028-W1
40 CFR §270.14(b)(19)(xii)	Location of operational units within the HWM facility site, where hazardous waste is treated, stored, or disposed	WIPP Site Facility Masterplan  Underground Mine Plan Structure Contour of Base of Orange Marker Band  Topographic Map with Underground Facilities	Drawing 24-C-022-W  Drawing 22-V-001-W  Part A Application: Figure 2-3

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<b>The Following Drawings Contain New/Revised Information and Are Being Submitted With the Renewal Application – Part B</b>			
40 CFR §270.15(a)(1)	A description of the containment system to demonstrate compliance with §264.175. Show at least the following:  (1) Basic design parameters, dimensions, and materials of construction.	WIPP Site Facility Masterplan	Drawing 24-C-022-W
40 CFR §270.15(a)(1)	A description of the containment system to demonstrate compliance with §264.175. Show at least the following:  (1) Basic design parameters, dimensions, and materials of construction.	WIPP Site Finish Grading and Paving	Drawing 24-C-028-W1
40 CFR §270.15(a)(1)	A description of the containment system to demonstrate compliance with §264.175. Show at least the following:  (1) Basic design parameters, dimensions, and materials of construction.	Site Work Finish Grading and Paving Sections and Details	Drawing 24-C-028-W2
40 CFR §270.15(a)(1)	A description of the containment system to demonstrate compliance with §264.175. Show at least the following:  (1) Basic design parameters, dimensions, and materials of construction	Salt Pile Infiltration Controls New Design	Drawing 23-C-011-W1

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40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	Waste Handling Building 411 Fire Protection Sprinkler System P & ID	Drawing 41-S-003-W1
40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	Waste Handling Building 411 Fire Protection Sprinkler System P & ID	Drawing 41-S-003-W2
40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	Waste Handling Building 411 Fire Protection Sprinkler System P & ID	Drawing 41-S-003-W3
40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	Waste Handling Building 411 Fire Protection Sprinkler System P & ID	Drawing 41-S-003-W4
40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	Waste Handling Facilities TRUPACT Dock Equipment Arrangement	Drawing 41-M-001-W

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40 CFR §270.15(a)(1)	<p>A description of the containment system to demonstrate compliance with §264.175. Show at least the following:</p> <p>(1) Basic design parameters, dimensions, and materials of construction.</p>	CH Area Constant Volume CH Area HVAC Flow Diagram Supply Air	Drawing 41-B-010-W1
40 CFR §270.23(a)(1)	<p>A detailed description of the unit being used or proposed for use, including the following:</p> <p>(1) Physical characteristics, materials of construction, and dimensions of the unit;</p>	<p>Underground Mine Plan Structure Contour of Base of Orange Marker Band</p> <p>Underground Utilities Fire Panel 534-FP-0320</p> <p>Underground Utilities Fire Panel 534-FP-00601</p> <p>Underground Mine Plan Shaft and Drift Dimensions</p>	<p>Drawing 22-V-001-W</p> <p>Drawing 53-J-039-W</p> <p>Drawing 53-J-042-W</p> <p>Drawing 54-W-009-W</p>