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**RENEWAL APPLICATION
CHAPTER P**

**WIPP TECHNICAL PROCEDURE SUMMARIES OF WIPP TECHNICAL
PROCEDURES REFERENCED IN OTHER CHAPTERS ATTACHMENTS**

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**RENEWAL APPLICATION
CHAPTER P**

**WIPP TECHNICAL PROCEDURE SUMMARIES OF WIPP TECHNICAL
PROCEDURES REFERENCED IN OTHER CHAPTERS ATTACHMENTS**

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~~The most current revision of the complete document or procedure is maintained within the WIPP
Operating Record.~~

Waste Isolation Pilot Plant
Hazardous Waste Facility Permit
Draft Renewal Application
May 2009

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1 Procedure Summaries

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3 WP 02-EM1002, *Electric Submersible Pump Monitoring System Installation and Operation*

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6 ~~Procedure Summary. The complete and current procedure is retained within the WIPP Operating~~
7 ~~Record.~~

8 ~~Procedure Summary~~

9 WP 02-EM1002, *Electric Submersible Pump Monitoring System Installation and Operation*, is a
10 technical procedure that provides step-by-step instructions for acquiring ground-water samples
11 using electric submersible pumps (**ESPs**). The procedure addresses the equipment in general,
12 lists precautions and limitations which assure that only qualified individuals operate the
13 equipment, prerequisite actions which assure the correct installation and operation. The
14 procedure details how to install the various subsystems such as the surface discharge and
15 pressure monitoring system and the pressure monitoring bubbler and how to start up and shut
16 down the ESP.

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19 WP 02-EM1005, *Groundwater Serial Sample Analysis*

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24 ~~Procedure Summary~~

25 WP 02-EM1005, *Groundwater Serial Sample Analysis*, is a technical procedure that provides
26 step-by-step instructions for on site analysis of ground water to determine ground-water stability
27 prior to the collection of final samples for analysis. The procedure addresses the equipment in
28 general, lists precautions and limitations which assure that only qualified individuals operate the
29 equipment, prerequisite actions which assure data quality. The procedure addresses the field
30 measurement of Eh, pH, temperature, specific gravity, specific conductance, alkalinity, chloride,
31 divalent cation, and total iron as indicators of ground-water stability.

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34 WP 02-EM1006, *Final Sample and Serial Sample Collection*

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38 ~~Record.~~

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1 WP 02-EM1006, *Final Sample and Serial Sample Collection*, is a technical procedure that
2 provides step-by-step instructions for acquiring ground-water samples from the Water Quality
3 Sampling Program (WQSP) wells in the vicinity of WIPP. The procedure addresses the
4 equipment in general, lists precautions and limitations which assure that only qualified
5 individuals operate the equipment, and prerequisite actions which assure the data quality. The
6 procedure addresses collection of samples from private wells, collection of serial ground-water
7 samples, the collection of final samples for submittal to the laboratory, and data review by the
8 monitoring task leader.

9 WP 02 EM1014, *Groundwater Level Measurement*

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13 ~~Record.~~

14 ~~Procedure Summary~~

15 WP 02-EM1014, *Groundwater Level Measurement*, is a technical procedure that specifies the
16 steps followed by Environmental Monitoring (EM) personnel for making manual ground-water
17 level measurements in ground-water wells in the vicinity of the WIPP facility. The procedure
18 provides general instructions including prerequisites, safety precautions, performance frequency,
19 quality assurance, and records. Specific instructions are included for using the water level
20 measurement electrical conductance probe and data management.

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23 WP 02-EM3001, *Administrative Processes for Environmental Monitoring and Hydrology*
24 *Programs*

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29 ~~Procedure Summary~~

30 WP 02-EM3001, *Administrative Processes for Environmental Monitoring and Hydrology*
31 *Programs*, is a management control procedure to provide the administrative guidance to be used
32 by Environmental Monitoring (EM) personnel to maintain quality control (QC) associated with
33 EM sampling activities and to assure that data acquired under the WIPP Environmental
34 Monitoring Program are valid. The precautions and limitations portion of this procedure assure
35 that only qualified personnel acquire samples under the EM program, that cross contamination of
36 sampling equipment is prevented, and that sample hold times are not exceeded. The
37 Performance portion of the procedure provides step-by-step instructions for Quality
38 Assurance/Quality Control (QA/QC) implementation, the use of data sheets and sample tracking

1 logbooks, sample tacking from collection to submittal, and actions to take if sample results
2 indicate the potential for exceeding a regulatory limit.

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5 WP 02-EM3003, *Data Validation and Verification of RCRA Constituents*

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11 WP 02-EM3003, *Data Validation and Verification of RCRA Constituents*, is a management
12 control procedure to provide Environmental Monitoring (EM) personnel instructions on
13 performing validation and verification of laboratory data containing the analysis results of non-
14 radiological samples. This procedure is used only on the analytical results of the non-
15 radiological environmental surveillance sampling performed around the WIPP site.

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18 WP 02-RC.01, *Hazardous and Universal Waste Management Plan*

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23 ~~Procedure Summary~~

24 WP 02-RC.01, *Hazardous and Universal Waste Management Plan*, is a step-by-step procedure
25 that defines site-generated non-radioactive hazardous waste and lists responsibilities of waste
26 management organizations including the generator, waste handlers, sampling personnel, safety
27 personnel, and compliance personnel. In addition, the procedure defines training requirements,
28 container marking requirements, spill response, and lists waste disposal prohibitions. A Section
29 of the procedure is focused on waste management practices including the management in
30 satellite accumulation areas, the hazardous waste staging area (which includes, but is not limited
31 to, materials awaiting analysis), the establishment of accumulation times, and hazardous waste
32 disposal.

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34 **WP 02-RC.04**

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Document Summary

2 ~~WP 02-RC.04 defines the process for evaluating, tracking and maintaining the Resource~~
3 ~~Conservation and Recovery Act (RCRA) training requirements contained in 20.4.1.300, 500,~~
4 ~~600, and 900 NMAC (incorporating 40 CFR §262, §264, §265, and §270). Personnel of the~~
5 ~~Waste Isolation Pilot Plant (WIPP) must successfully complete training consisting of classroom~~
6 ~~instruction and applicable on-the-job training. Training includes instruction in hazardous waste~~
7 ~~management procedures relevant to the position in which they are employed. The HWFP has~~
8 ~~been integrated into this plan. The WIPP Renewal Application stipulates that within 30 days of~~
9 ~~employment, individuals working at WIPP successfully complete the General Employee~~
10 ~~Training (GET) class. GET provides initial RCRA training to each employee by providing~~
11 ~~instruction and information on radiation safety, emergency preparedness, spill response, safety,~~
12 ~~security, hazard communications, and a brief history and overview of the RCRA. GET also~~
13 ~~includes a policies and procedures overview and first responder awareness training in which each~~
14 ~~individual is instructed in how to initiate an emergency response sequence by notifying the~~
15 ~~Central Monitoring Room (CMR). Additionally, more detailed hazardous waste, emergency~~
16 ~~response and similar training may be required dependent upon the employee's job description.~~
17 ~~Those job descriptions and their associated level of training is outlined in the HWFP Renewal~~
18 ~~Application Chapter H. This plan also addresses the mechanism for addressing changes in the~~
19 ~~employees' duties, job descriptions and position.~~

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23 *WP 10-AD3029, Calibration and Control of Monitoring and Data Collection Equipment*

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28 Document Summary

29 *WP 10-AD3029, Calibration and Control of Monitoring and Data Collection Equipment,*
30 *provides the step-by-step protocols for the establishment and maintenance of a master database*
31 *of monitoring and data collection (M&DC) equipment, the recall process for equipment needing*
32 *calibration, the performance of calibrations, the management of calibration results to determine*
33 *the adequacy of recall frequencies, functional testing of M&DC equipment, and reporting*
34 *including out-of-tolerance reporting and expired calibration reporting. In addition, the procedure*
35 *provides step-by-step process for the storage of calibrated M&DC equipment and the use of*
36 *rental equipment.*

1 WP 12-HP1100, *Radiological Surveys*

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4 ~~Operating Record.~~

5 ~~Document Summary~~

6 WP 12-HP1100, *Radiological Surveys*, provides specific methods and guidance for performing
7 surface contamination, dose rate surveys of items, equipment, and areas. Radiological surveys
8 are to be performed: (1) routinely, as specified by Attachment 4, Radiological Survey
9 Frequencies, and as scheduled by the Operational Health Physics (**OHP**) Manager; (2) in
10 association with a Radiation Work Permit (**RWP**); and/or (3) upon a special request. This
11 procedure does not cover monitoring of personnel. The limits for performing radiological receipt
12 surveys are driven by 10 CFR 835.

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16 WP 13-1, *Washington TRU Solutions LLC Quality Assurance Program Description*

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20 ~~Operating Record.~~

21 ~~Document Summary~~

22 WP 13-1 *Washington TRU Solutions LLC Quality Assurance Program Description*, identifies
23 federal and industry quality requirements applicable to the Management and Operating
24 Contractor (**MOC**) quality assurance program. This document establishes the minimum quality
25 requirements for MOC personnel and guidance for the development and implementation of
26 quality assurance programs by all MOC departments. Requirements and guidance are based on
27 criteria contained in applicable Federal Regulations, DOE Directives, EPA requirements
28 documents, industry standards and the [U. S.](#) Department of Energy (**DOE**) Carlsbad Field Office
29 Quality Assurance Program Document (**QAPD**). Source documents, which fall into one of three
30 categories:

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- 33
- Regulatory documents that define the requirements necessary for WIPP to be granted a certificate of compliance by the federal government and permit(s) by state governmental agencies to dispose of mixed transuranic (**TRU**) wastes in the WIPP repository
- 34
- Commitment documents that are imposed by DOE
- 35
- Guidance documents that provide additional information useful in developing quality assurance programs
- 36