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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.~~

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1 Procedure Summaries

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

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

6 ~~Procedure Summary~~

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

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

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18 ~~Record.~~

19 ~~Procedure Summary~~

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

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

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30 ~~Record.~~

31 ~~Procedure Summary~~

32 WP 02-EM1006, *Final Sample and Serial Sample Collection*, is a technical procedure that  
33 provides step-by-step instructions for acquiring ground-water samples from the Water Quality  
34 Sampling Program (WQSP) wells in the vicinity of WIPP. The procedure addresses the

1 equipment in general, lists precautions and limitations which assure that only qualified  
2 individuals operate the equipment, and prerequisite actions which assure the data quality. The  
3 procedure addresses collection of samples from private wells, collection of serial ground-water  
4 samples, the collection of final samples for submittal to the laboratory, and data review by the  
5 monitoring task leader.

6 WP 02 EM1014, *Groundwater Level Measurement*

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10 ~~Procedure Summary~~

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

17 WP 02-EM3001, *Administrative Processes for Environmental Monitoring and Hydrology*  
18 *Programs*

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21 ~~Record.~~

22 ~~Procedure Summary~~

23 WP 02-EM3001, *Administrative Processes for Environmental Monitoring and Hydrology*  
24 *Programs*, is a management control procedure to provide the administrative guidance to be used  
25 by Environmental Monitoring (**EM**) personnel to maintain quality control (**QC**) associated with  
26 EM sampling activities and to assure that data acquired under the WIPP Environmental  
27 Monitoring Program are valid. The precautions and limitations portion of this procedure assure  
28 that only qualified personnel acquire samples under the EM program, that cross contamination of  
29 sampling equipment is prevented, and that sample hold times are not exceeded. The  
30 Performance portion of the procedure provides step-by-step instructions for Quality  
31 Assurance/Quality Control (**QA/QC**) implementation, the use of data sheets and sample tracking  
32 logbooks, sample tacking from collection to submittal, and actions to take if sample results  
33 indicate the potential for exceeding a regulatory limit.

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

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5 ~~Procedure Summary~~

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

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

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15 ~~Procedure Summary~~

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

25 **WP 02-RC.04**

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29 **Document Summary**

30 ~~WP 02-RC.04 defines the process for evaluating, tracking and maintaining the Resource~~  
31 ~~Conservation and Recovery Act (RCRA) training requirements contained in 20.4.1.300, 500,~~  
32 ~~600, and 900 NMAC (incorporating 40 CFR §262, §264, §265, and §270). Personnel of the~~  
33 ~~Waste Isolation Pilot Plant (WIPP) must successfully complete training consisting of classroom~~  
34 ~~instruction and applicable on-the-job training. Training includes instruction in hazardous waste~~  
35 ~~management procedures relevant to the position in which they are employed. The HWFP has~~

1 ~~been integrated into this plan. The WIPP Renewal Application stipulates that within 30 days of~~  
2 ~~employment, individuals working at WIPP successfully complete the General Employee~~  
3 ~~Training (GET) class. GET provides initial RCRA training to each employee by providing~~  
4 ~~instruction and information on radiation safety, emergency preparedness, spill response, safety,~~  
5 ~~security, hazard communications, and a brief history and overview of the RCRA. GET also~~  
6 ~~includes a policies and procedures overview and first responder awareness training in which each~~  
7 ~~individual is instructed in how to initiate an emergency response sequence by notifying the~~  
8 ~~Central Monitoring Room (CMR). Additionally, more detailed hazardous waste, emergency~~  
9 ~~response and similar training may be required dependent upon the employee's job description.~~  
10 ~~Those job descriptions and their associated level of training is outlined in the HWFP Renewal~~  
11 ~~Application Chapter H. This plan also addresses the mechanism for addressing changes in the~~  
12 ~~employees duties, job descriptions and position.~~

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

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17 ~~Document Summary~~

18 WP 10-AD3029, *Calibration and Control of Monitoring and Data Collection Equipment*,  
19 provides the step-by-step protocols for the establishment and maintenance of a master database  
20 of monitoring and data collection (M&DC) equipment, the recall process for equipment needing  
21 calibration, the performance of calibrations, the management of calibration results to determine  
22 the adequacy of recall frequencies, functional testing of M&DC equipment, and reporting  
23 including out-of-tolerance reporting and expired calibration reporting. In addition, the procedure  
24 provides step-by-step process for the storage of calibrated M&DC equipment and the use of  
25 rental equipment.

26 WP 12-HP1100, *Radiological Surveys*

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

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

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5 ~~Document Summary~~

6 WP 13-1 *Washington TRU Solutions LLC Quality Assurance Program Description*, identifies  
7 federal and industry quality requirements applicable to the Management and Operating  
8 Contractor (**MOC**) quality assurance program. This document establishes the minimum quality  
9 requirements for MOC personnel and guidance for the development and implementation of  
10 quality assurance programs by all MOC departments. Requirements and guidance are based on  
11 criteria contained in applicable Federal Regulations, DOE Directives, EPA requirements  
12 documents, industry standards and the U.S. Department of Energy (**DOE**) Carlsbad Field Office  
13 Quality Assurance Program Document (**QAPD**). Source documents, which fall into one of three  
14 categories:

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