

Class 1 Permit Modification Notifications

**Revise Attachment B6 Checklist
Revise Working Days to Calendar Days
Correct Table B1-3
Correct Storage Capacity in Attachment F**

**Waste Isolation Pilot Plant
Carlsbad, New Mexico**

WIPP HWFP #NM4890139088-TSDF

January 2008

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Acronyms and Abbreviations

CBFO	Carlsbad Field Office
CFR	Code of Federal Regulations
DOE	Department of Energy
HWFP	Hazardous Waste Facility Permit
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
PMN	Permit Modification Notification
RCRA	Resource Conservation and Recovery Act
TSDf	Treatment, Storage and Disposal Facility
WIPP	Waste Isolation Pilot Plant
WTS	Washington TRU Solutions LLC

Overview of the Permit Modification Notification

This document contains four Class 1 Permit Modification Notifications (**PMN**) to the Hazardous Waste Facility Permit (**HWFP**) at the Waste Isolation Pilot Plant (**WIPP**), Permit Number NM4890139088-TSDF hereinafter referred to as the WIPP HWFP.

These PMNs are being submitted by the U.S. Department of Energy (**DOE**), Carlsbad Field Office (**CBFO**) and Washington TRU Solutions LLC (**WTS**), collectively referred to as the Permittees, in accordance with the WIPP HWFP, Condition I.B.1 (20.4.1.900 New Mexico Administrative Code (**NMAC**) incorporating Title 40 of the Code of Federal Regulations (40 **CFR**) §270.42(a)). The PMNs in this document are necessary for the following reasons:

- revise the checklist in Attachment B6,
- to change references from “working days” to “calendar days”,
- correct Table B1-3 to be consistent with HWFP text and
- correct the storage capacity identified in Attachment F.

These changes do not reduce the ability of the Permittees to provide continued protection to human health and the environment.

The requested modifications to the WIPP HWFP and related supporting documents are provided in this PMN. The proposed modification to the text of the WIPP HWFP has been identified using a double underline and revision bar in the right hand margin for added information, and a ~~strikeout~~ font for deleted information. All direct quotations are indicated by italicized text.

Attachment A

Description of the Class 1 Permit Modification Notifications

Table 1. Class 1 Hazardous Waste Facility Permit Modification Notification

No.	Affected Permit Section	Item	Category	Attachment A Page #
1	Attachment B6	Revise Items 304 and 313	A.1	A-3
2	Module IV Attachment M2 Attachment N	Change “working days” to “calendar days”	A.1	A-5
3	Attachment B1	Revise Table B1-3	A.1	A-8
4	Attachment F	Revise Section F-1e(1)	A.1	A-9

Item 1

Description:

Revise the HWFP to make editorial changes to two items in the B6 checklist.

Basis:

The change is administrative and informational in nature and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

Discussion:

As a result of the July 30, 2007 Hanford Site audit, the NMED approved the final audit report (Number A-07-10) on September 11, 2007. The NMED had comments on the final audit report. Comment 10 and 11 dealt with verbiage in the checklist in Attachment B6. Specifically the NMED recommended that the language in Items 304 and 313 be revised through the Class 1 modification process. This PMN addresses that recommendation.

The NMED suggested that the word “are” be added to item 304 and the word “non-transparent” be added to item 313.

Revised Permit Text:

a.1. Attachment B6, Item 304

304	Do procedures indicate that all visual examination activities <u>are</u> recorded on audio/videotape or alternatively, by using a second operator to provide additional verification by reviewing the contents of the waste container to ensure correct reporting? (Section B1-4)
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a.2 Attachment B6, Item 313

<u>313</u>	Do site procedures ensure that when liquids are found, the <u>non-transparent</u> container holding the liquid will be assumed to be filled with liquid and this volume will be added to the total liquid in the payload container? The payload container would then be rejected and/or repackaged to exclude the container if it is over the TSDF-WAC limits. (Section B-3c)
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Item 2

Description:

Change all references to “working days” to “calendar days”

Basis:

The change is administrative and informational in nature and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

Discussion:

The NMED prefers that reporting and notification requirements be in calendar days. This modification will change references from working days to calendar days. This modification will incorporate equivalent time frames taking into account weekends such that 3 working days will become 5 calendar days; 5 working days will become 7 calendar days and 10 working days will become 14 calendar days. No time extensions are being requested.

Revised Permit Text:

a.1. Module IV, Section IV.F.1.c

Notification of adverse conditions - when evaluation of the geomechanical monitoring system data identifies a trend towards unstable conditions which requires a decision whether to terminate waste disposal activities in any Underground HWDU, the Permittees shall provide the Secretary with the same report provided to the WIPP Operations Manager within ~~five (5) working~~ seven (7) calendar days of its issuance, as specified in Permit Attachment M2, Section M2-5b(2)(a), "Description of the Geomechanical Monitoring System".

a.2. Module IV, Section IV.F.2.c

Notification requirements - the Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the concentration of any VOC specified in Table [IV.D.1](#) exceeds the concentration of concern specified in Table [IV.F.2.c](#) below.

The Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the running annual average concentration (calculated after each sampling event) for any VOC specified in Table [IV.D.1](#) exceeds the concentration of concern specified in Table [IV.F.2.c](#) below.

a.3. Module IV, Section IV.F.3.b.

Notification requirements - the Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the concentration of any VOC specified in Table [IV.D.1](#) in any closed room in an active panel or in the immediately adjacent closed room exceeds the action levels specified in Table [IV.F.3.b](#) below.

a.4 Module IV.F.4.c

Notification requirements - the Permittees shall calculate the running annual average mine ventilation exhaust rate on a monthly basis. In addition, the Permittees shall evaluate compliance with the minimum active room ventilation rate specified in Permit Condition [IV.E.3.b](#) on a monthly basis. Whenever the evaluation of the mine ventilation monitoring program data identifies that the ventilation rates specified in Permit Condition [IV.E.3.b](#) have not been achieved, the Permittees shall notify the Secretary in writing within ~~five (5) working~~ seven (7) calendar days.

a.5 Section M2-5b(2)(a)

The stability of an open panel excavation is generally determined by the rock deformation rate. The excavation may be unstable when there is a continuous increase in the deformation rate that cannot be controlled by the installed support system. The Permittees will evaluate the performance of the excavation. These evaluations assess the effectiveness of the roof support system and estimate the stand-up time of the excavation. If an open panel shows the trend is toward adverse (unstable) conditions, the results will be reported to determine if it is necessary to terminate waste disposal activities in the open panel. This report of the trend toward adverse conditions in an open HWDU will also be provided to the Secretary of the NMED within ~~5-working~~ seven (7) calendar days of issuance of the report.

a.6 Section N-3e(1)

As specified in Permit Module IV, the Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the concentrations of any target VOC listed in exceeds the concentration of concern specified in Permit Module IV, Table IV.F.2.c.

The Underground HWDU VOC emission concentration for each target VOC that is calculated for each sampling event will then be averaged with the Underground HWDU VOC emission concentrations calculated for the air sampling events conducted during the previous 12 months. This will be considered the running annual average concentration for each target VOC. For the first year of air sampling, the running annual

average concentration for each target VOC will be calculated using all of the previously collected data.

As specified in Permit Module IV, the Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the running annual average concentration (calculated after each sampling event) for any target VOC exceeds the concentration of concern specified in Permit Module IV, Table IV.F.2.c.

If the results obtained from an individual air sampling event do not trigger the notification requirements of Permit Module IV, then the Permittees will maintain a database with the VOC air sampling data and the results will be reported to the Secretary as specified in Permit Module IV.

a.7 Section N-3e(2)

When the Permittees receive laboratory analytical data from an air sampling event, the data will be validated as specified in Section N-5a, within ~~ten (10) working~~ fourteen (14) calendar days of receiving the laboratory analytical data. After obtaining validated data from an air sampling event, the data will be evaluated to determine whether the VOC concentrations in the air of any closed room, the active open room, or the immediately adjacent closed room exceeded the Action Levels for Disposal Room Monitoring specified in Permit Module IV, Table IV.F.3.b.

The Permittees shall notify the Secretary in writing, within ~~five (5) working~~ seven (7) calendar days of obtaining validated analytical results, whenever the concentration of any VOC specified in Permit Module IV, Table IV.D.1 exceeds the action levels specified in Permit Module IV, Table IV.F.3.b.

a.8 Section N-5d

Electronic Data Deliverables (**EDDs**) are provided by the laboratory prior to receipt of hard copy data packages. EDDs will be evaluated within ~~three (3) working~~ five (5) calendar days of receipt to determine if VOC concentrations are at or above action levels in Table IV.F.3.b for disposal room monitoring data or concentrations of concern in Table IV.F.2.c for repository monitoring data. If the EDD indicates that VOC concentrations are at or above these action levels or concentrations, the hard copy data package will be validated within ~~three (3) working~~ five (5) calendar days as opposed to the ~~ten (10) working~~ fourteen (14) calendar day time frame provided by Section N-3e(2).

Item 3

Description:

Revise Table B1-3 of the HWFP to be consistent with the text in sections B1-1b(1) and B1-1b(2).

Basis:

The change is administrative and informational in nature and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

Discussion:

Attachment B1 indicates that field blanks and equipment blanks shall be acceptable if the concentration of each VOC analyte is less than or equal to three times the method detection limit. In Table B1-3 the “less than” sign was inadvertently retained instead of the “less than or equal to” sign in the “Acceptance Criteria” column and the “greater than or equal to” sign was inadvertently retained instead of the “greater than” sign in the “Corrective Action” column. This modification will correct those errors.

Revised Permit Text:

**TABLE B1-3
SUMMARY OF SAMPLING QUALITY CRITERIA
SAMPLE ACCEPTANCE CRITERIA**

QC Sample	Acceptance Criteria	Corrective Action ^a
Field blanks	VOC amounts $\leq 3 \times$ MDLs in Table B3-2 for GC/MS and GC/FID; < PRQLs in Table B3-2 for FTIRS	Nonconformance if any VOC amount $\geq 3 \times$ MDLs in Table B3-2 for GC/MS and GC/FID; \geq PRQLs in Table B3-2 for FTIRS
Equipment blanks	VOC amounts $\leq 3 \times$ MDLs in Table B3-2 of for GC/MS and GC/FID; < PRQLs in Table B3-2 for FTIRS	Nonconformance if any analyte amount $\geq 3 \times$ MDLs in Table B3-2 for GC/MS and GC/FID; \geq PRQLs in Table B3-2 for FTIRS

Field reference standards or on-line control sample	70 - 130 %R	Nonconformance if %R < 70 or > 130
Field duplicates or on-line duplicate	RPD \leq 25	Nonconformance if RPD > 25

Item 4

Description:

Revise section F-1e(1) of the HWFP to be consistent with the storage volumes and locations specified in Module III, Table III.A.1.

Basis:

The change is administrative and informational in nature and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

Discussion:

The Contingency Plan describes CH Bay operations which include where and how much waste may be stored in the CH Bay. These volumes and locations were revised during a recent permit modification process. This section was inadvertently not updated with the correct information. This modification will correct this inconsistency.

Revised Permit Text:

F-1e(1) CH Bay Operations

Once unloaded from the Contact-Handled Package, CH TRU mixed waste containers (7-packs of 55-gal drums, 3-packs of 100-gal drums, 4-packs of 85-gal drums, SWBs, or TDOPs) are placed in one of two positions on the facility pallet. The waste containers are stacked on the facility pallets (one- or two-high, depending on weight considerations). The use of facility pallets will elevate the waste at least 6 inches (in.) (15 centimeters [cm]) from the floor surface. Pallets of waste will then be ~~relocated to the northeast area of the~~ stored in the CH bay for normal storage. This storage area will be clearly marked to indicate the lateral limits of the storage area. This storage area will have a maximum capacity of ~~seven~~ thirteen facility pallets of waste during normal operations. These pallets will typically be staged in this area in the CH Bay storage area for a period of up to five days.