

Public Participation Information
In Accordance With
20 NMAC 4.1.901
(Incorporating §124.31 *Pre-application public meeting and notice*)

The applicant shall submit a summary of the meeting, along with the list of attendees and their addresses developed under paragraph (b) of this section, and copies of any written comments or materials submitted at the meeting, to the permitting agency as a part of the part B application, in accordance with 40 CFR 270.14(b)

Summary of February 10, 2009, Meeting in Carlsbad, NM

- Introductory comments were made by HL “Jody” Plum, DOE/CBFO
- A presentation (attached) was given on Draft 3 WIPP Hazardous Waste Facility Permit Renewal Application by HL “Jody” Plum, DOE/CBFO; William A. Most, Washington Regulatory & Environmental Services; Mike Gross, MG Enterprises
- Questions regarding the Renewal Application were solicited and answers provided
- The list of attendees is attached
- No written comments were provided to the Permittees (applicants) at the Pre-Application meeting. However, comments received subsequent to the meeting are attached

Summary of February 12, 2009, Meeting in Santa Fe, NM

- Introductory comments were made by HL “Jody” Plum, DOE/CBFO
- A presentation (attached) was given on Draft 3 WIPP Hazardous Waste Facility Permit Renewal Application by HL “Jody” Plum, DOE/CBFO; William A. Most, Washington Regulatory & Environmental Services; Mike Gross, MG Enterprises
- Questions regarding the Renewal Application were solicited and answers provided
- The list of attendees is attached
- No written comments were provided to the Permittees (applicants) at the Pre-Application meeting. However, comments received subsequent to the meeting are attached

Summary of May 5, 2009, Meeting in Carlsbad, NM

- Introductory comments were made by HL “Jody” Plum, DOE/CBFO
- A presentation (attached) was given on Draft 4 WIPP Hazardous Waste Facility Permit Renewal Application by William A. Most, Washington Regulatory & Environmental Services
- Questions regarding the Renewal Application were solicited and answers provided

- The list of attendees is attached
- No written comments were provided to the Permittees (applicants) at the Pre-Application meeting. However, comments received subsequent to the meeting are attached

Summary of May 7, 2009, Meeting in Santa Fe, NM

- Introductory comments were made by HL "Jody" Plum, DOE/CBFO
- A presentation (attached) was given on Draft 4 WIPP Hazardous Waste Facility Permit Renewal Application by William A. Most, Washington Regulatory & Environmental Services
- Questions regarding the Renewal Application were solicited and answers provided
- The list of attendees is attached
- No written comments were provided to the Permittees (applicants) at the Pre-Application meeting. However, comments received subsequent to the meeting are attached

List of Attendees
February 10, 2009, Pre-Application Meeting in Carlsbad, NM

Carlsbad, New Mexico

February 10, 2009

**U.S. Department of Energy
Waste Isolation Pilot Plant Renewal Application
for the Hazardous Waste Facility Permit**

*Names appearing on this list will become part of the administrative record

Name <i>Please Print All Information Clearly</i>	Mailing Address
Jerry V. FOX PECOS MANAGEMENT SER.	P.O. BOX 13343 Albuquerque, NM 87192
Johnelle Keriota PECOS Management Services	PO BOX 13343 Albuquerque, NM 87192
FRED YARGER NM CENTER for ENERGY POLICY NM TECH	2632 N JADE AVE HOBBS, NM 88240

List of Attendees
February 12, 2009, Pre-Application Meeting in Santa Fe, NM

Santa Fe, New Mexico

February 12, 2009

**U.S. Department of Energy
Waste Isolation Pilot Plant Renewal Application
for the Hazardous Waste Facility Permit**

*Names appearing on this list will become part of the administrative record

Name <i>Please Print All Information Clearly</i>	Mailing Address
CHRISTOPHER TIMM	P.O. Box 13343 ALBUQUERQUE, NM 87192
PAUL PIERCE	P.O. Box 13343 ALBUQUERQUE, NM 87192
Kerry Rodgers	9 3510 39th St, NW, #D-664 WASHINGTON, DC 20016
Scott Kovac	NWNM
Don Hancock	JAIL, PO B 4524, A16 87196
JONI ARENDIS	CCNS
Jerry Fox	P.O. Box 13343 ALBUQUERQUE, NM 87192

Written Comments from the February 10/12, 2009 Pre-Application Meetings

(copy retained)

①

January 19, 2009
135 Rincon Valverde
Ponderosa, NM
87644-9500

Mr. Bobby St. John
c/o United States Department of Energy
Carlsbad Field Office
P.O. Box 3090
Carlsbad, New Mexico
88221-3090

Dear Mr. St. John,

Both February 10th and 12th, 2009 are days I deliver home-school instruction to my daughter. I regret that this renders me unable to attend either pre-application meetings that the U.S. Department of Energy Carlsbad Field Office and Washington TRU Solutions LLC are hosting.

I would very much like to be informed, nonetheless, of the proposed hazardous waste management activities and, after reasonable review of surface-mailed hardcopy of requested material, would like to compose questions to send to you.

(copy retained)

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However, while I am waiting for my requests to be honored, I will, for -the-record, submit this non-technical written public comment on a renewal application being considered by NMEID for defense-generated transuranic waste to be disposed of at the Waste Isolation Pilot Plant 30 miles east of Carlsbad, New Mexico before the expiration of the current permit on November 26, 2009, as follows:

-beginning-

"New Mexico Environment Department should not renew the Hazardous Waste Facility Permit for the Waste Isolation Pilot Plant 30 miles east of Carlsbad, New Mexico which would continue underground disposal of defense-generated transuranic waste in one more place in New Mexico. The disposal of byproducts of nuclear weapons research and production should be halted forever, at the Carlsbad, New Mexico (actually, as already mentioned, 30 miles east of same)

(copy retained)

3

Waste Isolation Pilot Plant after November 26, 2009, Los Alamos National Laboratory and Sandia Laboratory should be receiving huge amounts of legacy waste clean-up money. Secretary of State Clinton recently criticized the Bush Administration for having downgraded the role of arms control. Simultaneously, Energy Secretary-designate Chu wants to push these same labs to turn the focus of their missions to the energy problem and he endorses nuclear power. When November 26, 2009 comes around, whatever defense-generated transuranic waste has not been disposed of at the Waste Isolation Pilot Plant in New Mexico will have to be recycled in Eunice, sealed at Los Alamos to wait for Yucca Mountain to open, or sealed in the massive taxpayer boondoggle construction project up at Los Alamos, permanently, or if Mesa del Sol flops, out on the flats between the Sunport

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and Isleta Pueblo. Most importantly, said Renewal Application should not be submitted to New Mexico Environment Department before May 30, 2009. This will give the incoming Obama Administration the time to close down this dangerous source of pollution in New Mexico. Until I receive requested evidence to the contrary, my unamended comment is as stated."

Please send all requested documentation to:

Rebecca G. Perry-Piper
135 Rincon Valverde
Ponderosa, New Mexico
87044-9500

Respectfully,

Rebecca G. Perry-Piper

Rebecca G. Perry-Piper

(copy retained)

Page 1 of 2



February 11, 2009
135 Rincon Valverde
Ponderosa, NM
87044-9500

Mr. Steve Zappe
New Mexico Environment Department
2905 Rodeo Park Drive
Building 1
Santa Fe, NM
87505

Dear Mr. Zappe,

I originally submitted my draft low-threshold non-technical written public comment on Draft 3 WIPP Hazardous Waste Facility Permit Renewal Application Volume I&II January 2009 United States Department Of Energy Washington TRU Solution LLC, with a January 19, 2009 date, to Mr. Bobby St. John c/o United States Department Of Energy, Carlsbad Field-Office P.O. Box 3090 Carlsbad, New Mexico 88221-3090. I commend Mr. St. John for surface-mailing me requested draft so that I might review it and submit an amendment to my January 19, 2009 comment, upgrading it to one of high-threshold status. My amended for-the-record comment is as follows:

-beginning-

"New Mexico Environment Department should not renew the Hazardous Waste Facility Permit for the Waste Isolation Pilot Plant 30 miles east of Carlsbad, New Mexico, which would continue underground disposal of defense-generated transuranic waste in one more place in New Mexico. The disposal of byproducts of nuclear weapons should be halted, forever, at the Carlsbad WIPP after November 26, 2009. Most importantly, said renewal application should not be resubmitted to NMED before May 30, 2009 in order to give the new Obama Administration the time to close down and seal up this dangerous site.

In reviewing Draft 3, I, firstly, found the lack of depiction of predominant wind direction in "Wind Speed Report (Meter/Second) January 1, 2006 to December 31, 2006; Elevation 10.0 Meters (Will be updated prior to submittal)" to be inadequate for the correlation of other data depicted on groundwater surface elevation monit-

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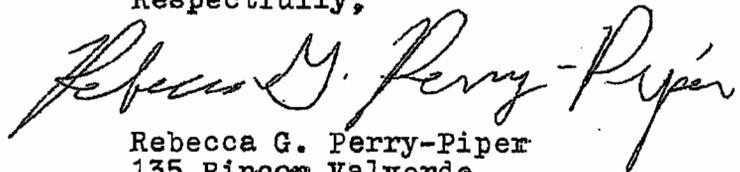
Page 2 of 2

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oring locations, cattle density, crop location, and inhabited ranches. I, secondly, was disappointed that "(Will be updated prior to submittal)" was a part of the caption of the aforementioned depiction in a draft submission subject to public review and comment, rendering the draft incomplete/invalid. I, thirdly, felt that "Figure L-18 Groundwater Surface Elevation Monitoring Locations Permit Chapter L Page L-70 of 70" gave no indication of the depth or proximity that the monitoring system functioned at, rendering the draft flawed. I, fourthly, found inconsistent the practice of letting cattle graze in areas where farmers avoided planting. I observed this when overlapping "2207 CY-Active Mines And Inhabited Ranches Within A 10-Mile Radius Of The WIPP Facility" and "2007 CY-Acres Planted In Edible Agriculture And Commercial Crops Within A 50-Mile Radius Of The WIPP Facility". Cattle should not be allowed to graze SSE/SE of WIPP for 50 miles.

All in the paragraph above reinforces my view expressed in my comment's first paragraph."
-ending-

Respectfully,



Rebecca G. Perry-Piper
135 Rincon Valverde
Ponderosa, New Mexico
87044-9500

PECOS MANAGEMENT SERVICES, INC.

February 27, 2009

Mr. Vernon Daub, Deputy Manager
U.S. Department of Energy
Carlsbad Field Office
4021 National Parks Highway
Carlsbad, NM 88221

Subject: Contract No. DE-AC30-06EW03005 "Comments on Draft 3 of the Hazardous Waste Facility Permit Renewal Application"
PECOS Document #2009-C-0026

Dear Mr. Daub:

PECOS Management Services, Inc. (PECOS) is pleased to submit the enclosed comments on the Draft 3 of the Hazardous Waste Facility Permit (HWFP) Renewal Application for the Waste Isolation Pilot Plant (WIPP), which was provided for our review in January 2009. PECOS' review was based upon our belief that the intent of the HWFP should be to enable DOE to facilitate disposal of transuranic (TRU) waste in WIPP as efficiently and safely as possible as directed by the authorizing federal legislation. From that perspective, PECOS believes that the proposed HWFP renewal should be written to ensure maximum flexibility of operations for WIPP. Further, we believe that the overall health and safety of all of the facets of characterizing, treating, transporting, and disposing TRU waste in WIPP should be evaluated and changes proposed that reduce the overall risk associated with TRU waste disposal. This evaluation should focus on decreasing the risks associated with the storage, characterization, and treatment of TRU waste at the generator sites without increasing the risks during transportation and disposal. PECOS also suggests that DOE pursue the elimination of any permit requirements that have been proven to be not necessary based upon the almost ten years of operating data. Such actions will improve the efficiency and facilitate the safe disposal of TRU waste in WIPP.

One of our major concerns is that the proposed new HWFP does not address two of the key issues with respect to the disposal of remote handled (RH) TRU waste. The first issue is to ensure that the HWFP gives DOE the ability to be able to dispose of the maximum amount possible in horizontal boreholes in Panels 5 through 8. That issue can be at least partially addressed by including in this Renewal Application a request to increase the permitted capacity for RH TRU waste disposal in Panels 5 and 6 to that permitted for Panel 7. In fact, PECOS recommends that DOE submit a Permit Modification Request (PMR) for the current permit to increase the permitted capacity for RH TRU waste disposal in Panel 5 to be the same as Panel 7 in order to improve operational flexibility.

PECOS MANAGEMENT SERVICES, INC.

Mr. Vernon Daub, Deputy Manager
U.S. Department of Energy
February 27, 2009
Page 2

The second issue is the ability to be able to continue to place RH TRU waste in rooms even after emplacement of contact handled (CH) TRU waste has started. The text in the current HWFP and in the Renewal Application basically state that once CH TRU waste begins to be emplaced in a room, the emplacement of RH TRU waste in boreholes in that room ceases, even if a substantial number of boreholes are unfilled. Rather than including that self-limiting requirement, we believe that it would add flexibility to WIPP operations if the text were changed in the new HWFP to indicate that DOE has the option to emplace RH TRU waste in the same room where CH TRU waste is being emplaced as long as all DOE health and safety requirements are met.

Another concern is with respect to the expected duration of the disposal phase. In several parts of the Renewal Application, the statement is made that the disposal phase is expected to last 25 years. Since only about 1/3 of the CH TRU waste and less than 3 percent of the RH TRU waste capacities will have been used in the first 10 years of operation, it is more likely that the disposal phase will more than 35 years. This is corroborated by the disposal phase timetable presented in Table I-1 on page I-25 of Chapter I, which indicates a disposal phase duration of over 31 years. Therefore, we suggest that DOE correct the Renewal Application and provide the best current estimate of the duration of the disposal phase throughout.

PECOS is also concerned about the inconsistency in the discussions regarding Panels 9 and 10 between various sections of the Renewal Application. Since the Part B Necessary Information Section and the changes to Appendix M2 that Panels 9 and 20 indicate that the approach to increasing the capacity of WIPP beyond the eight panels may or may not be Panels 9 and 10, it appears that this Renewal Application could be simplified by simply indicating that should there be a need to dispose of more TRU waste than authorized by the renewed permit, DOE would submit the appropriate PMR for more capacity – either by increasing the allowed capacity in the one or more of the panels as authorized by Section IV.A.1.b.ii of the current permit or by using the four access drifts or through mining more panels. Making this change would ensure maximum flexibility for DOE for future capacity expansions.

Since DOE is in the process of gaining approval to use shielded containers for disposal of TRU waste in WIPP and is also in the process of designing the Standard Waste Box 2 and the TRUPACT III to more safely accommodate disposal of larger TRU waste items, we believe that those containers should be included in the renewal application as planned future permit modification requests – a practice that is commonly called out in other sections of the current permit.

Another major concern is the number of errors and inconsistencies both within and between sections of the Renewal Application. While most of them do not impact the actual proposed operations of the WIPP, they give the impression to the readers that the quality assurance program for WIPP is not particularly effective. In addition, the formatting of the Appendices is inconsistent. Some have Tables of Contents and some don't (examples Appendices I2 and M2), some contain a

PECOS MANAGEMENT SERVICES, INC.

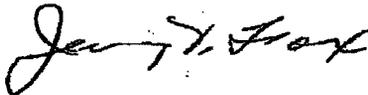
Mr. Vernon Daub, Deputy Manager
U.S. Department of Energy
February 27, 2009
Page 3

list of acronyms and abbreviations and some don't (example Appendix I3). Also, there are numerous instances of references in the text not being included in the Reference list at the end of Chapters or Appendices and the converse, namely that references on the reference list are not referenced in the text.

Finally, we understand that additional permit changes are being drafted including changes related to the prohibition of liquids in TRU waste containers and the waste characterization process. We recommend that DOE consider the information presented in our reports entitled: "*An Evaluation of the Health and Safety Risks resulting from Repackaging TRU Waste for Disposal at WIPP*", which was provided to DOE in September 2008, and "*Potential Health and Safety Impacts of Removal of Containers from the Waste Isolation Pilot Plant*", which was provided to DOE in November 2008 during the formulation of those changes. We also recommend that DOE consider modifying the volatile organic compound (VOC) monitoring program. Since the monitoring results basically have shown very low levels of VOCs for the past ten years, it appears that a reduction in the sampling and analysis requirements is justified. This type of modification would essentially be comparable to the reduction in the headspace gas sampling requirements approved by NMED in 2006 that was justified by the low concentrations of VOCs found in over 70,000 payload containers up to that point in time.

We appreciate the opportunity to review the draft and look forward to the opportunity to review the fourth draft of the renewal application including all of the proposed changes to the HWFP text and attachments. Please call me or Christopher Timm at (505) 323-8355 should you have any questions.

Sincerely,



Jerry V. Fox, PhD
Project Director

cc: M. Long, EMCBC
L. Dumont, EMCBC
R. Nelson, DOE
B. St. John, Washington TRU Solutions
S. Keeney, PECOS
C. Timm, PECOS

Enc: As Stated

PECOS MANAGEMENT SERVICES, INC.

Comments on Draft 3 Hazardous Waste Facility Permit Application – February 2009

General Comments

DOE should take this opportunity to request the increase of the allowed disposal capacity for RH TRU waste in Panels 5 and 6 to 650 m³ in order to give DOE the maximum operational flexibility.

Is the Renewal Application intended to be a 'stand alone' document or is it intended to be reviewed along with a copy of the existing permit? If it is 'stand alone' then all the references to Modules and Attachments should be changed to the appropriate Chapter or Appendix in the Application. (Ex. Chapter D, page D-5, line 3 refers to Module III of the permit. However the same description is provided in Appendix M1 of the Renewal Application.

If the Renewal Application is referring to the existing HWFP when specifying modules, then the text should read something like "Module XX of the current HWFP or Module XX of the 1999 Permit". For example, the sentence on page D-5, lines 2-3 should read "These containers are described in Module III of the current Permit".

There is extensive inconsistency in the definition and use of acronyms for the units at WIPP. For example, the hazardous waste management unit (HWMU) that consists of the Waste Handling Building is called either the Waste Handling Building (WHB) or the Waste Handling Building (WHB) Container Storage Area (WHB unit) depending on the Chapter and Appendix. Similarly, the acronyms for the other HWMU, the Parking Area Container Storage Unit, are the Parking Area Unit or PAU depending upon the Chapter and Appendix.

The Renewal Application should be reviewed to ensure that the acronyms NMED and WIPP versus the phrases "the NMED" and "the WIPP" are used properly.

The formatting of the Appendices is inconsistent. Some have Tables of Contents and some don't (examples Appendices I2 and M2), some contain a list of acronyms and abbreviations and some don't (example Appendix I3).

Unless the text refers to several different forms of each, words such as 'waste' and 'sludge' should always be singular.

Specific Comments

Table of Contents – 1) Page numbers missing on even-numbered pages. 2) Chapter M erroneously called Appendix M

Abbreviations and Acronyms – 1) Many of the acronyms and abbreviations contained in the chapters and appendices to this application are not included in this list. It should either be all inclusive for the whole application or labeled to indicate what part of the application it covers. 2) There are two different acronyms given for radiation control – pick one or the other. 3) Rather than using the same term (AC) for acre and alternating current, suggest using Ac for acre and AC for alternating current. Also, the acronym HWDU, which is used in Part A of the application, is not on the acronym list.

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Introduction – 1) The Introduction should clearly state that the mission of WIPP is for permanent disposal of radioactive waste as regulated by the EPA under 40CFR191 and 194 and that the permit is only required since some of the radioactive waste contains other waste forms regulated by RCRA. 2) On page 2, line 23, the wording after “TDSF” should be ‘*are incorporated*’ instead of ‘and incorporate’. Page 2, line 30, the last word should be singular.

Part A Certification – This section is still poorly organized and difficult to follow. 1) The RCRA Subtitle C Site Identification Form and Hazardous Waste Permit Information Form should be identified in the Table of Contents for the renewal application. 2) The Table of Contents for this section (Page A-i) is in the wrong location – it should be at the start of the section rather than after the Hazardous Waste Permit Information Form. Part 8 of the Hazardous Waste Permit Information Form should include a statement that the information for that part is continued on page A-1 of the section. Similarly, a statement should be inserted at the top of page A-1 such as “*The following information is a continuation of Part 8 of the Hazardous Waste Permit Information Form*”. Also Part 14 of the Hazardous Waste Permit Information form and several other places in this section refer to Section XII, but there is no attachment identified as Section XII. Further, there are six figures or maps at the end of the section that are not page numbered for Part A. It appears they should be part of Appendix 2. Finally, there is an un-numbered table at the end of this section that appears should either be in the Regulatory Crosswalk section or in the Part B section.

Other comments on Part A:

1. **Necessary Information.** Page 5: For RH TRU mixed waste, the amount emplaced through Panel 7 should be “no more than 1,804 m³” instead of 1,985 m³ and the amount with Panel 8 should be changed from “2,635 m³” to “2,454 m³”.
2. Page 5: In the paragraph beginning “During the ten year period...”, change ‘received’ to ‘receive’ in the second line.
3. Page 5: Insert a space after 148,500 and change m3 to m³ after 2,635.
4. Page A-1, line 18: The text indicates the acronym for hazardous waste management units is HWDU. However, the balance of the text on this page uses the acronym HWMU. It appears that the intent is to use the acronym HWMU for the above ground hazardous waste management units and the acronym HWDU (hazardous waste disposal units for the underground hazardous waste management (disposal) units. Revise the text accordingly. Also, in line 33 change ‘bill’ to ‘will’ after the acronym HWMU. Further, suggest deletion of the term S01 before HWMU on line 35 and changing S01 to HWMU after the second ‘this’ in that line. Also, in line 39, change the beginning of the sentence to read “The second HWMU in S01 is the parking area...”.
5. Page A-2: It is suggested that the capacities cited for Panels 1 through 8 be changed to reflect the actual volumes disposed as discussed in the above comment. Basically, change “148,500” to “139,340” and “2,635” to “2,454”.

Part B

PECOS MANAGEMENT SERVICES, INC.

Necessary Information

- i. General: The possibility of using the 4 “disposal area access drifts” if waste cannot be accommodated in Panels 1 – 8 is mentioned in the Necessary Information. Additional information should be presented to account for this as a real possibility in light of the current disposal rate of approximately 2 years per panel and the fact that Table I-1 (Chapter I, Page I-25) shows an expected Operations start date of January 2017 for Panel 9.
- ii. Pages 1 and 2: If filled to permitted capacity, Panels 1 through 8 would only hold approximately 151,135 m³ of TRU waste. Therefore, the last sentence on page 1 should be changed to read: “Since wastes disposal volumes permitted to be disposed in the eight panels will be less than the stated design capacity, DOE may choose to either request a permit modification to increase the allowed CH TRU waste disposal capacity in panels as authorized by Section IV.A.1.b.ii of the Permit or use the four disposal access drifts for disposal or mine additional HDWUs or a combination of these alternatives. The permit modification request would describe the design of proposed capacity increases and the controls to be exercised for personnel safety and environmental protection while disposing of wastes in the new disposal areas.
- iii. Page 2 lines 6-8:
 1. 148,500 m³ does not equal 4,605,700 ft³, please correct. Also, insert a space between the “5” and the “m” in (2,635m³).
 2. The numbers presented for CH TRU waste volume should be revised to represent the amount actually emplaced in Panels 1 through 3, which is 1,609,019 ft³ according to Table IV.A.1 in the current Permit. Since no more than 3,310,750 ft³ is/will be permitted for Panels 4 thorough 8, no more than 4,919,769 ft³ can be emplaced in Panels 1-8.
 3. The numbers presented for RH TRU waste should also be revised to represent the actual amount emplaced in Panel 4. Our estimate is that no more than 175 m³ will be emplaced in it. Therefore, since Panels 5 through 8 do/will have a permitted capacity of 2,279 m³, the number presented in the application should be changed to 2,454 m³.
 4. RH TRU waste was never emplaced in Panels 1, 2 or 3. The text on line 8 should be revised to indicate that RH TRU waste will only be emplaced in Panels 4 through 8. Also the acronym for CH was identified, but RH was not. Please insert this acronym here *and* use it on page 18.
 5. The text for lines 6-8 should be revised as follows: For the ten year term of this permit, DOE plans to dispose of up to 2,648,600 ft³ (75,000 m³) of contact-handled (CH) waste and 80,480 ft³ (2,279 m³) of remote-handled (RH) TRU mixed waste, in Panels 5 to 8. Therefore, the volume of CH TRU waste disposed in Panels 1 through 8 will be no more than 4,920,526 ft³ (139,340 m³) of CH waste, and Panels 4 through 8 will contain no more than 86,660 ft³ (2,454 m³) of RH TRU mixed waste.
- iv. Page 5 line 9: Preparedness and Prevention should be italicized.

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- v. Page 5 line 28: A comma is needed between “County” and “New” in Eddy County New Mexico. The same error is on page 6, lines 9-10 and 27-28.
- vi. Page 10 line 16: A period is needed at the end of the statement. Periods are also needed on lines 18, 20, 25, and 27.
- vii. Pages 12-13: The term “ground water” is spelled three different ways (depending on its use as an adjective or noun) on these two pages: ground-water, groundwater and ground water. Select one way. Page 15 mentions that “A Class 3 permit modification request for No Further Action is pending before the NMED.” Why can’t the Class 2 PMR for training have the same wording on page 8? Also, this Class 3 permit modification request was formally approved by NMED on October 23, 2008. The wording needs to be changed to reflect this.
- viii. Page 16 lines 34-35: all of the following text should be blue *and* have a period placed at the end: “and as described in Renewal Application Chapter F-4b, *Identification of Hazardous Materials*, and Renewal Application Appendix M1, *Container Storage*”.
- ix. Page 17 lines 7 & 15: Waste Analysis Plan should be italicized.
- x. Page 17 line 34: A period is needed at the end of the sentence.
- xi. Page 17 line 36: Change the verb “does not” to “do not”.
- xii. Page 18 lines 14-21: The text should be blue, not black.
- xiii. Page 18 lines 7-10: Change the phrase “There is no change” in the first sentence to “There are no changes”.
- xiv. Page 18 line 9: Delete the phrase “TRU mixed waste for disposal”.
- xv. Page 18 line 10: Change contact-handled to “CH”
- xvi. Page 18 lines 28-29: Change the period to a comma after “264.602” and change the comma to a period at the end of the sentence.
- xvii. Page 19 lines 4-8: Change “There is no change to.....” to “There are no changes”. Also add a hyphen for the second occurrence of “land use”. Further, the first sentence is not clear and should be re-written.
- xviii. Page 19 line 18: Change “has” to “have”.
- xix. Page 19 lines 28-33: Change text color from black to blue.
- xx. Page 19 line 4: Insert a space between “1” and “w” in “§264.601 will”.

Chapter A

- 1. Page A-1 line 32: New Mexico is spelled out on this line, but abbreviated on lines 16, 20, 29.
- 2. Page A-1 line 38: The phrase “32o 22' 30" N” should be “32° 22' 30" N”.
- 3. Page A-2 line 9: Define DOE before using the acronym throughout the document.

PECOS MANAGEMENT SERVICES, INC.

4. Page A-2 lines 19-20: Suggest changing the designation of the Waste Handling Building (WHB) Container Storage Unit to just the Waste Handling Building unit (WHB unit) since there are more activities than just container storage conducted in that unit.
5. Page A-2 line 35: Define RCRA before using the acronym throughout the document.
6. Page A-3 line 24: Define NMAC.
7. Page A-4 line 10: Define NMED before using the acronym throughout the document.
8. Page A-4 line 28: Indent NMED so that it matches up with the rest of the text.
9. Page A-6 line 7: Remove the extra period after "Inc..".

Chapter B

- i. General. Review document for failure to define or other inconsistent use of acronyms. For example, the acronym "AK" is defined on page B-2 but is re-defined on page B-5 and B-15. Additionally, the term "acceptable knowledge" is used instead of the acronym AK numerous times in the chapter starting on page B-9. Also, the acronyms VOC, SVOC, TCLP, are not defined when first used (page B-14).
- ii. Page B-1 line 18: Replace "DOE" with "U.S. Department of Energy (DOE)".
- iii. Page B-4 line 21: Since this is the first use of "toxic characteristics" add the acronym (TC) after it and then change "toxic characteristic" to TC on the following pages.
- iv. Page B-9 line 37: Add the acronym "SWB" after the term "standard waste box". Then delete the term "standard waste boxes" on page B-33.
- v. Page B-14 line 14: The word "Attachment" is misspelled.
- vi. Page B-20 line 31: Use "UCL₉₀" instead of "UCL90".
- vii. Page B-21 line 11: The acronym DQO's should be DQOs (no apostrophe) as stated in line 8.
- viii. Page B-25, line 7: Replace "U.S. Department of Energy" with "DOE".
- ix. Page B-28 line 31: Change "a authorized" to "an authorized".
- x. Page B-28 line 42: "Waste Stream Profile Form" was previously identified by its acronym "WSPF". Please continue to use WSPF here and in the rest of this section.
- xi. Page B-30 line 6: The acronym SOPs was not previously defined.
- xii. Page B-32 line 30: Add a period after the word "container(s)".
- xiii. Page B-33 line 40: The acronym TDOPs was previously defined in this document. There is no need to do it again here.

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- xiv. Page B-47 and B-48 Table B-5: The phrase “statistical samplinga” needs to be changed to “statistical sampling” in two places.

Appendix B1 – Waste Characterization Sampling Methods

- i. Page B1-1 lines 8-9: Define the acronyms TRU and WIPP. Then delete the definition of TRU on page B1-15.
- ii. Page B1-1 line 15: Add the acronym HSG after “headspace gas” and substitute the acronym for that phrase throughout the Appendix. Or, if the acronym is not used, use either “headspace gas” or “headspace-gas” (see line 19) in the document.
- iii. Page B1-2 line 5: Add a space after the period in the phrase “in Table B1-9.The DAC”.
- iv. Page B1-2 line 7: Use the same type of quotes for all footnotes.
- v. Page B1-2 line 8: Adding the word “required” before the acronym DAC will make this sentence more understandable.
- vi. Page B1-2 line 19: Use DAC instead of spelling it out.
- vii. Page B1-2 line 36: Define WWIS before using it the first time.
- viii. Page B1-3 line 22: Define BWXT before using it the first time.
- ix. Page B1-3 lines 24 & 28: Remove the extra period at the end of each sentence.
- x. Page B1-4 line 11: Define VOC before using it the first time.
- xi. Page B1-6 line 1: Define PRQL before using it the first time and remove the extra space before the period at the end of the sentence.
- xii. Page B1-6 line 11: Define ppm.
- xiii. Page B1-6 line 24: Insert a comma after FTIRS.
- xiv. Page B1-8 line 14: The degree symbol in “125 degrees C” does not show up correctly (it looks like a rectangle, instead). Please use the same “degree” symbol seen earlier in this document. Make the same correction on Page B1-14 line 32.
- xv. Page B1-8 line 16: When then symbol © is used it should be a superscript (here and elsewhere in the document).
- xvi. Page B1-14 line 2: Define psig.
- xvii. Page B1-15: The reference TO-14 (EPA 1988) is not included in the list of References on Page 29.
- xviii. Page B1-16 lines 6-7: The phrase “may require no more sample than is required” might be better expressed as “may require no more samples than are required”.
- xix. Page B1-16 line 27: The phrase “light weight auger” should be “lightweight auger” (see also Figure B1-5 on page B1-51).

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- xx. Page B1-16 line 35: The word "teflon" should be "Teflon[®]".
- xxi. Page B1-17 line 25: The word "coring tools leading edge" should be "coring tool's leading edge".
- xxii. Page B1-17 line 30: The word "tools" should be "tool".
- xxiii. Page 18 makes reference to "SW-846 Manual (1996)". Because this document is very large, it might be beneficial to reference a specific part of SW-846 (many parts have been revised since Update III in December 1996). Also change "(1996)" to "(EPA 1996)".
- xxiv. Page B1-18 line 34: VOA stands for "volatile organic analysis", not "volatile organics analysis".
- xxv. Page B1-24 line 39: Insert a comma after "In this way".
- xxvi. Page B1-25 line 1: The phrase "with internal container of various sizes" should be "with internal containers of various sizes".
- xxvii. Page B1-27 line 28: "Sample Coring equipment" should be "Sample coring equipment".
- xxviii. Page B1-39: Table B1-7 has unequal row spacing which makes the middle rows difficult to read.
- xxix. Page B1-42: Table B1-9 has a different font/font size for the entry at the bottom of the page. This entry's row height is also larger than the rest.

Appendix B2 – Statistical Methods Used In Sampling and Analysis

- i. Page B2-1 lines 8-9: Define the acronyms TRU and WIPP.
- ii. Page B2-1 line 19: AK was previously defined in line 11, so use it here and everywhere else in the document.
- iii. Page B2-1 line 35: D-numbers are defined, but F-numbers are not.
- iv. Page B2-1 line 41: Change "these wastes streams" to "these waste streams".
- v. Page B2-2 line 40: Equation variable $t_{a,n0-1}$ is not listed in the definition of variables. Instead, $t_{a,n-1}$ is defined on line 6 of page B2-3.
- vi. Page B2-3 lines 7-8: Define TC and PRQL before using them for the first time.
- vii. Page B2-3 line 37: Shouldn't the phrase "the validated samples results" be "the validated samples' results"?
- viii. Page B2-4 line 4: Define WSPF.
- ix. Page B2-4 line 23: Define UCL_{90} .
- x. Page B2-4 line 42: define VOC.
- xi. Page B2-7 line 36: Starting here, UCL_{90} is italicized in the remaining text of the document. This change in text format is seen with other variables, such as n^* . Also, "the number of samples (n)" is mentioned in several places in

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the text. It was defined on page B2-2 and doesn't need to be redefined elsewhere.

- xii. Page B2-8 line 15: Remove the box from around the variable x .
- xiii. Page B2-8 line 16: The term $t_{(a,n-1)}$ shows up in equations as $t_{a,n-1}$. Consistency is warranted.
- xiv. Page B2-9: Six references are listed, but only the last two are specifically called out in the text. Also, the reference to the DOE TRU Quality Assurance Program Plan (QAPP) is out of date. According to the current QA Program Document (QAPD rev 9), the QAPP was to become "inactive" with rev 3 of the QAPD.
- xv. Page B2-13: Define the acronyms HSG and HWN in the text before using them in Figure B2-1.

Appendix B3 – Quality Assurance Objectives and Data Validation Techniques for Waste Characterization Sampling and Analytical Methods

- i. General: Some citations are listed as (DOE, 2005), while others are listed as (EPA 1996). Choose one format (with or without a comma), not both.
- ii. Page B3-3: The word "usability" is also spelled "useability" on this page. Use one form, not both.
- iii. Page B3-4 line 11: Replace the period after the word "address" with a comma.
- iv. Page B3-5: Several references are made to SW-846 without citing the source (EPA 1996). Note that eventually the source is cited on page B3-14.
- v. Page B3-5, lines 21 and 24: The word "coeluting" should be changed to "co-eluting"
- vi. Page B3-5: line 28: Add the acronym HSG after "headspace gas" and substitute the acronym for that phrase in the rest of the document.
- vii. Page B3-7: Headspace gas is not consistently hyphenated when used as an adjective on this page.
- viii. Pages B3-8 and B3-31: Some bulleted items end with periods but others do not. Be consistent.
- ix. Page B3-8 lines 21-22: Should the phrase "according to manufacturers specifications" be "according to manufacturers' specifications"?
- x. Page B3-23 line 5: The word "involves" should be "involve".
- xi. Page B3-29 line 31: Delete the extra space after "B6".
- xii. References to the two Project Demonstration Plans are outdated. The PDP for headspace gas analysis was revised in 2007 (not 2003). The PDP for solids was revised in 2006 (not 2005).

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- xiii. Reference for the WIPP Waste Information System is also outdated. The current version was updated in 2008 and goes by a different title.
- xiv. Page B3-35 line 36: Replace the comma after DOE with a period.
- xv. Table B3-4: The term MDL^b should be MDL^b.
- xvi. Table B3-5 and Table B3-7: The acronym QAO's should be QAOs.
- xvii. The following acronyms were not defined prior to first use:

Acronym	First Appears on Page	First Defined/Spelled Out on Page
TCLP	B3-5 line 11	B3-29 line 8
GC/MS	B3-5 line 12	
QC	B3-6 line 37	
PRQL	B3-7 line 7	B3-12 line 40
NIST	B3-8 line 20	
OVA	B3-8 line 21	
PRDLs	B3-9 line 41	B3-18 line 36
TSDF-WAC	B3-11 line 28	
WAP	B3-12 line 39	B3-18 line 41
ICP MS	B3-18 line 30	B3-50 line 7
TRU	B3-21 line 34	
WSPF	B3-23 line 28	B3-27 line 8
WWIS	B3-27 line 12	B3-32 line 4
UCL ₉₀	B3-28 line 4	
RCRA	B3-29 line 5	
EPA	B3-30 line 26	
NMED	B3-30 line 27	
TRUCON	B3-30 line 37	
AK	B3-31 line 15	
TWIBR	B3-31 line 17	
GC/FID	B3-40 line 15	
RT	B3-46 (Tables B3-5 & B3-7)	
CCC	B3-46 (Tables B3-5 & B3-7)	
ICP AES	B3-50 line 7	
AA	B3-50 line 8	
CVAA	B3-51 (Table B3-9)	
GFAA	B3-51 (Table B3-9)	
HAA	B3-51 (Table B3-9)	
FLAA	B3-51 (Table B3-9)	
NCRs	B3-55 (Table B3-11)	B3-33
HSG	B3-56 (Table B3-12)	

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Appendix B4 – TRU Mixed Waste Characterization Using Acceptable Knowledge

- i. Page B4-1: Define the acronyms EPA and TRU. EPA is not defined until page B4-4, and transuranic is spelled out on page B4-6. Also, because AK is defined on this page, continue to use the acronym throughout the document.
- ii. Page B4-1: There is no need to keep saying “Permit Attachment B” after WAP. It is already defined near the top of the first page.
- iii. Page B4-1: An EPA document is called out as a reference (EPA, 1994), but there are no “References” listed at the end of the document.
- iv. Page B4-2: Define WIPP.
- v. Page B4-6: Define LANL, VOC, and NMMSS.
- vi. Page B4-7: Define WSPF. Page B4-11 defines the acronym.
- vii. Page B4-11: Define DQOs before using it the first time. It is spelled out on page B4-14.
- viii. Page B4-12: Define TCLP.
- ix. Page B4-13 line 39: The verb “can not” should be “cannot”.
- x. Page B4-16: Define CARs.

Appendix B5 – Quality Assurance Project Plan Requirements

- i. Page B5-1 lines 7-8: Define the acronyms TRU and WIPP. (On Page B5-1, Waste Isolation Pilot Plant is actually spelled out in line 12, while transuranic is on line 31.)
- ii. Page B5-1 line 22. Add the acronym QA after the phrase “quality assurance” and substitute accordingly throughout the rest of the document.
- iii. Page B5-1 line 39 and Page B5-2 line 35: Delete (Permit Attachment B) from both lines.
- iv. Page B5-2 line 22: Define NMED.
- v. Page B5-2 line 32: Define DOE.
- vi. Page B5-2 line 35: Define QC.

Appendix B6 – Waste Isolation Pilot Plant Permittees’ Audit and Surveillance Program

- i. Page B6-1 line 16: Define NMED.
- ii. Page B6-1 line 18: Add the acronym DOE after “Energy”.
- iii. Page B6-3 line 12: The acronym for Quality Assurance Objectives should be QAOs not QAO.

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- iv. Page B6-4 line 13: Define QAPjP.
- v. Page B6-4 line 20: The word “laboratory” should be “laboratories”.
- vi. Page B6-6 line 10: Remove the carriage return at the end of this line.

Appendix B7 – Permittee Level TRU Waste Confirmation Processes

- i. Page B7-1 line 17: Define TRU.
- ii. Page B7-1 line 27: Define CH and RH.
- iii. Page B7-1 line 33: Define TSDF-WAC.
- iv. Page B7-3 line 12: define WSPF.
- v. Page B7-7 lines 20-29: The font size is 11, but should be 12.
- vi. Page B7-8 line 16: Either refer to WIPP as “WIPP” or “the WIPP”, but not both.
- vii. Page B7-8 line 26: Define QC.
- viii. Page B7-9 line 2: Define CAR.
- ix. Page B7-9 line 3: Define NMED.
- x. Page B7-9 line 15: The spacing between words should be corrected on this line.
- xi. Page B7-13: Define WWIS and HWFP before using them in the figure.

Chapter D.

- i. General: Add a discussion indicating that a shielded container is being proposed for approval for use by WIPP and that DOE is developing the SWB-2 for use on WIPP.
- ii. Page D-3, line 3: Where is the Operational Record maintained? Wouldn't the equipment logbook be better kept with the equipment?
- iii. Page D-3, line 3: Define the acronym CH. In line 6, define the acronym RH.
- iv. Page D-3, lines 19 and 20: Update the references to the DSA for WIPP to reflect the Combined CH-RH DSA issued in 2008.
- v. Page D-4, line 5: Substitute the phrase “inspection procedures” for the word “inspection”.
- vi. Page D-6, lines 2, 15, 17, 19, and 20: Substitute CH for contact-handled and RH for remote-handled.
- vii. Page D-7: Update reference to the most current DSA and TSR.
- viii. Page D-19 & 20: The notes on page D-20 should be moved to page D-19 for convenience to the reader.

Chapter E.

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- i. General: Other than the first usage on page E5-1, line 6, change the phrases “the WIPP facility” and “WIPP facility” to “WIPP”. Also, the use of hyphens is inconsistent – see page E-5, lines 5 and 6 for an example.
- ii. Page E-2, line 24: Change “plantwide” to “plant-wide”.
- iii. Page E-2, line 30: Change “TRU mixed wastes are” to “TRU mixed waste is”.
- iv. Page E-2, line 32: Define the acronym “WHB”.
- v. Page E-4, line 2: Add a “The” at the beginning of the sentence. Also, remove the extra space after the first parenthesis.
- vi. Page E-4, line 30: Delete the comma after the word “system”.
- vii. Pages E-4 and E-11: One page refers to domestic water and the other to potable water. They should be consistent.
- viii. Page E-5, line 23: Change “contact-handled” to CH
- ix. Page E-5, line 28: Change “10” to “ten”.
- x. Page E-6, line 17: Change “effected” to “affected”.
- xi. Page E-8, line 14: Change “allow” to “allows”.
- xii. Page E-9, line 9: Delete “DBE” since it is not used again in this chapter.
- xiii. Page E-10, line 5: Hyphenate the word “nonliquid”.
- xiv. Page E-10, line 9: Change the word “discusses” to “discuss”.
- xv. Page E-10, line 39: Hyphenate the word “nonflood”.
- xvi. Page E-11, line 32: Change the word “provide” to “provides”.
- xvii. Page E-14, line 1: Transpose the words “are” and “criteria”.
- xviii. Page E-15, line 12: Change the word “are” to “is” at the end of the line.
- xix.

Chapter F.

- i. General: This section uses the terms ‘shipping containers’ (Page F-4, line 2), CH or RH Package shipping containers (Page F-5, line 21), Contact-Handled Package (Pages F-6, F-8, and F-9), and Remote-Handled Package (Pages F-7, F-8, and F-9). It is recommended that only the terms CH shipping containers and RH shipping containers be used.
- ii. Page F-1, line 35: Are there still ten major TRU waste generator and/or storage sites now that Rocky Flats is closed?
- iii. Page F-4, Section F1-a: A discussion about the receipt and disposal of RH TRU waste needs to be added to this section.
- iv. Page F-6, Section F-1d: Add discussion of proposed addition of shielded containers and the development of the SWB-2 to the waste container list.

Chapter G.

- i. General: There are a number of acronyms on Pages G-2 and G-3 that are not on the Abbreviations and Acronym List at the beginning of the Renewal Application package.
- ii. Page G-2, lines 12 and 14: Change “Contact-Handled or Remote-Handled Packages” to “CH or RH shipping containers”.
- iii. Paragraph G-3, page G-3: This paragraph is inconsistent in that it includes the term Contact Handled (no hyphen) Packages and does not clearly indicate

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that the shipping containers for CH TRU waste are either the TRUPACT II or the HalfPACT. Similarly, the description of how RH TRU waste gets to WIPP should include mention of the RH-72B and the CNS 10-160B shipping containers.

Chapter H. This chapter should be revised to read the same as what has been submitted in the most recent Class 2 Permit Modification request for the current permit.

Chapter I.

- i. General: See Comment 18 from our review of Draft 2- it still applies.
- ii. Page I-1, line 25: Insert the word “and” after WHB
- iii. Page I-2, lines 12-13a: Use the same terminology for the WHB and PAU that are stated on Page I-1, line 15.
- iv. Page I-3, Section I-1a(1): Suggest changing the title of the section to “WHB and Parking Area HWMUs” so as to be in conformance with the introductory discussion on Page I-1.
- v. Page I-4, Section I-1a(2): This title is misleading since WIPP as a whole is defined under RCRA as a miscellaneous unit. Suggest changing the title of this section to “Waste Handling Disposal Units”.
- vi. Page I-4, lines 15-16a: The statement that post closure migration ‘will not occur’ is presumptuous. Suggest changing it to say that the Performance Assessment indicates that post closure migration will not occur.
- vii. Page I-5, Section I-1a(3): This section needs to be edited to make it clear that the 30 year post-closure period is a RCRA requirement particularly when Section I-1(g) discusses the 100 year EPA requirement.
- viii. Page I-6, Section I-1c: Add the following sentence to the end of the first paragraph: “The closure plan developed for the maximum waste inventory will be used for each of Panels 1 through 8 even if less than the maximum allowable volumes of TRU waste is disposed in any of the panels”.
- ix. Page I-6, Section I-1d and Page I-6, Section I-1d(2): The expected operational period should be changed to be more realistic given the fill-rate of WIPP. Also, the text in both these sections should be the same.
- x. Page I-7, first paragraph: Revise to reflect that Panel 2 has been closed and the explosion-isolation wall installed. Second paragraph, revise to indicate that Panel 3 has been closed per the Appendix M2.
- xi. Page I-7, line 25: Add the word “The” at the start of this line. Also, disposal of TRU mixed waste did not start until November 1999. Thus, the end of the disposal phase should be 2024 or later and should match the times shown in Table I-1.
- xii. Page I-8, line 8: The reference to the 1997 DSA has been deleted from the text, but the reference is still listed on page I-21
- xiii. Page I-11, lines 7-8: The performance standard for air emissions is not provided in Renewal Application Appendix M2. Where is it?
- xiv. Page I-16, line 25: Correct the reference to read (EPA, 1996) or correct the date on the reference on page I-21 to be 1986, whichever is correct.
- xv. Page I-21: Should the reference be to the Final Supplemental EIS issued in 1997 rather than the 1980 EIS?

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- xvi. Page I-26 & I-33: The dates in Figure I-3 don't agree with the dates in Table I-2.
- xvii. Appendix I-3, Page I3-3: First, update the SAR reference to the 2008 combined CH-RH DSA on lines 25 and 28. Second, on line 35-36, WIPP procedure WP-12-HP1100 is not included in the current Permit but rather is only available in the WIPP Operating Record. Also, the date for that procedure should be changed to 2008 – the date of the last revision.

Chapter J.

- i. Page J-2, line 10: The acronym VOCMP is not on the master abbreviation and acronym list for the renewal application.
- ii. Page J-2, line 22: Add EPA Compendium Method TO-15 to the reference list at the end of the chapter.
- iii. Page J1-3, line 33: Correct the disposal phase time period to match the period shown in Table I-2.
- iv. Page J1-4, top of page: Update this part of the text to reflect current status – 5 panels mined, 3 filled, one being filled.
- v. Pages J1-6 and J1-7: Two different fonts used on those pages.

Chapter K – Missing?

Chapter L.

- i. General: The title for Chapter L has ground water spelled two different ways (one at the top of the page, and the other at the bottom).
- ii. General: Should all the WIPP procedures (WP 02-EMXXXX) discussed in the text be listed as references? Also, should the text indicate where they can be accessed?
- iii. Many of the acronyms for this chapter are not on the master abbreviation and acronym list for the renewal application.
- iv. Page L-2: Restrictions on drilling activities are described for the 16 sections of the Land Withdrawal Act with an exception for Section 31. Suggest describing the location and significance of Section 31.
- v. Page L-15, line 29: The title of WP 13-1 should be added to the text and a footnote explaining the scope/purpose of the document added.
- vi. Page L-15, footnotes. Where is footnote 1? Does not appear on any of the previous pages of this chapter.
- vii. Page L-16, line 3: The FEIS is not referenced on the reference list at the end of the chapter nor is that acronym included on the master list. Also, shouldn't the reference be to the Final Supplemental EIS?
- viii. Page L-17, line 21: The formula is typed incorrectly. Substitute the symbol for rho (ρ) for the second p in the formula.
- ix. Page L-18, footnote 4: That procedure is already referenced by footnote 2 on page L-15, line 31.

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Chapter M.

- i. General: Replace the term "first ten-year term of the HWFP" with the term "current Permit" or "Initial Permit"
- ii. Page M-1, line 14: Suggest using the acronym "PAU", which is used in Chapter I, instead of "Parking Area Unit". Make the same change in the Appendices to Chapter M - see Page M1-1, M1-5,
- iii. Page M-2, Line 43: The ventilation rate for active rooms is given as 35,000 ft³ per minute. It should be shown as "35,000 scfm".
- iv. Page M-9 of 47, Line 25: The sentence needs to be completed following the word "described".
- v. Appendix M1: Add a discussion of the proposed shielded containers in anticipation of their approval for use. Also include the proposed SWB-2.
- vi. Appendix M1: Replace **contact-handled** with CH and **remote-handled** with RH throughout this Appendix.
- vii. Page M1-18, line 15: Update the reference to the 1997 SAR to the 2008 combined CH-RH DSA. Also update reference list on page M1-30 accordingly.
- viii. Page M1-19, Section M1-1d(3): A discussion about contamination surveys and cleanup to be used for RH TRU waste shipments, comparable to the discussion for CH TRU waste shipments on pages M1-16-18 needs to be added to this section. Or alternately, a separate section should be created addressing receipt, inspection, survey, and decontamination of both CH and RH shipping containers.
- ix. Page M1-35, Table M1-3: Since the weights are given in pounds, the capacities should also be given in pounds not tons (see Table M1-2).
- x. Page M2-1, lines 31 and 32. The meaning of the phrase "and any currently active panel" is unclear. Suggest replacing it with "and Panel 4 should it still be active".
- xi. Page M2-2, line 6: Change the phrase "in the first 10 year term of the HWFP" to "in the Initial Permit".
- xii. Page M-2, line 15: Is the Salt Handling Shaft still the principal personnel transport shaft?
- xiii. Page M-2, line 21: Change the cubic feet to be 5,244,000.
- xiv. Page M-2, line 25: Change 2,635 to 2,460 to reflect the actual amount of RH TRU waste disposed in Panel 4. Also, this amount could be changed to 2,775 m³ if DOE would request the RH TRU waste disposal capacity increase for Panels 5 and 6 discussed in the current HWFP.
- xv. Page M2-6, line 43: Change this sentence to show there are 8 HWDUs (Panels 1-8) covered by this permit with active disposal expected to be in Panels 5 through 8.
- xvi. Page M2-8, lines 42-43: Are the minimum ventilation rate units SCFM or ACFM?
- xvii. Page M2-9, lines 25-31: Rearrange the text on those lines as shown below since it is more logical to discuss how the panel is closed after the discussion of how the rooms are "closed".
"Once a disposal room is filled and ~~is no longer needed for emplacement activities, it will be~~ barricaded against entry and isolated from the mine

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ventilation system by removing the air regulator bulkhead and constructing chain link/brattice cloth barricades at each end. There is no requirement for air for these rooms since personnel and/or equipment will not be in these areas. *After all rooms within a panel are filled, the panel will be closed using a closure system described Renewal Application Chapter I and Renewal Application Appendix II*".

- xviii. Page M2-13, lines 15 and 20: Substitute CH for contact-handled. Also change Packaging to Package on line 20.
- xix. Page M2-13, line 16: Substitute WHB for 'waste handling building'.
- xx. Page M2-17, line 10: Delete the first sentence. Revise the second sentence to read: "*Based upon the geomechanical instrumentation experience gained in the repository to date, conditions are assessed....*".
- xxi. Page M2, lines 14-15: Suggest this discussion be updated to reflect the collection and analysis of the geomechanical monitoring data since 1999. If the reference to the Panel of Experts is still to be included, provide a reference to that presentation.

Chapter N.

- i. Page N-1, line 21: The acronym RH is not included in the Acronym and Abbreviation list at the beginning of this chapter.
- ii. Appendix N1: Should this appendix be updated to include Panel 8? Also, on the first page, the title of the Appendix should be changed to "Hydrogen and Methane Monitoring Plan".

Chapter P. Add the titles of each technical procedure to the appropriate summary sheet.

Chapter Q.

- i. Page Q – 1 of 9 is mislabeled as Page Q – 9 of 9.
- ii. Page Q – 1 of 9: The freezing point of water is listed as 460 °R. The freezing point of water is 492 °R or 32 °F. The Imperial standard state temperature is 0 °C equivalent to 32 °F rather than the listed 460 °R which is 0 °F. Also the summertime temperature is listed as 528 °R (100 °F). Five hundred twenty eight °R is 68 °F equivalent to 20 °C, which is also often taken as the standard state.
- iii. This chapter should state what standard state temperature corresponds to the 35,000 scfm flow rate requirement and the temperature in question (summertime temperature in this case).

300 Year Performance Demonstration Re-Evaluation.

- i. An introductory section should be added to this part of the renewal application package to explain the purpose for the performance demonstration – namely to respond to the requirement of 40CFR270.23 (see page 19 of the Necessary Information Section for Part). The introduction should also explain why the term of 300 years was selected since RCRA only

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- requires 30 years and the federal regulations for WIPP only require 100 years of active post-closure control for WIPP.
- ii. This section should also be referenced in the Closure Plan and Post-Closure Plan as further substantiation that those plans are more than adequate.

Materials Submitted at the Pre-Application Meetings

February 10th and 12th, 2009

**WIPP Hazardous Waste Facility
Permit Pre-Application Meetings**

Carlsbad, NM, Feb 10, 2009

Santa Fe, NM, Feb 12, 2009

Purpose of Today's Meeting

- The Pre-Application meetings are required whenever the application proposes a significant change in facility operations in accordance with NMAC 20.4.1.901, *Permitting Procedures*

- At the Pre-Application meeting, the Permittees will
 - Notify the public of the hazardous waste management activities contained in the Renewal Application
 - Receive written comments from the public

Written Comments

- Comments received prior to May 15, 2009, will be included in the administrative record and be included in the Renewal Application
- Send Comments to:

Bobby St. John

Public Affairs

P.O. Box 2078

Carlsbad, New Mexico 88221

Purpose of Today's Meeting

- Introduce WIPP's Hazardous Waste Facility Permit (**Permit**) Renewal Application
 - Background
 - Proposed Changes in Facility Operations and Waste Characterization
 - Format
 - Public Participation
 - Required Renewal Application Submittal Date
- Presentation of the Re-Evaluation of the 300-Year Performance Demonstration

Second Pre-Application Meetings

In April 2009

- Recently, additional scope has been identified that will be included in the Renewal Application
- Responding to NMED and stakeholder input
- Clarifying text

Background

- The WIPP Permit expires November 26, 2009
 - Permittees must submit a new application at least 180 days before the expiration date of the effective permit
 - The WIPP Renewal Application must be submitted on or before May 30, 2009
 - So long as the Renewal Application is “timely and complete” the current Permit remains in effect until the new Permit is issued or denied
-

Proposed Changes in Facility Operations and Waste Characterization

- Authorization to dispose of TRU-mixed waste in Panel 8
 - Currently Permittees are authorized to construct and certify Panel 8
 - Authorization to dispose of TRU waste was not requested in 2005 modification to the Permit as the planning basis did not project the need for the disposal capacity during the Permit term
-

Proposed Changes in Facility Operations and Waste Characterization

- Inclusion of Attachment Q: *Mine Ventilation Rate Monitoring Plan*
 - Submittal of Plan required by Permit Condition IV.J.
 - Permittees submitted the Plan to NMED in 2000
 - Plan has not been formally incorporated into the Permit by NMED
 - Permittees work to all requirements of the Plan including reporting data
-

Changes Not Reflected in Draft 3

- Clarification of Visual Examination Requirements
 - Clarification of the Liquid Prohibition
 - Administrative change for notification of non-administrative non-conformances
 - Distinguish between “generator” and “certified program” requirements to clearly identify who can perform characterization required by the Permit
-

Format

- Table of Contents
 - List of Tables
 - List of Figures
- Abbreviations/Acronyms
- Introduction
 - Narrative
 - Regulatory Crosswalk
- Part A Application
 - Necessary Information for Part A
 - Summary of Proposed Changes
 - Part A Application Form
 - Part A Application Certification
 - Other Environmental Permits
 - Facilities
 - Photographs
 - Maps

Format

- Part B Application
 - Required Regulatory Information

 - Public Process Pre-Submittal Meeting Information
 - Name/address of participants (if offered)
 - Written Comments
 - Presentation

 - Chapters and Appendices
 - Although not specifically required, the Permittees are choosing to provide proposed changed text in Redline/Strikeout text as a reviewer's aid.

 - Supplement
 - Re-Evaluation of the 300-Year Performance Demonstration
-

Format

- **Necessary Information**
 - **General and Specific Information Required by the Regulations**
 - **Part A § 40 CFR 270.13 Part A Information**
 - **Part B § 40 CFR 270.14 General**
 - **Part B § 40 CFR 270.15 Containers**
 - **Part B § 40 CFR 270.23 Miscellaneous Units**
 - **Response to each information requirement in summary form**
 - **Readers then directed to Renewal Application chapters and appendices for full information**
-

Format

Changes are being requested

- Language authorizing disposal in Panel 8
 - Formalization of Mine Ventilation Rate Monitoring Plan
 - Clarification of
 - VE requirements
 - Liquid Prohibition
 - Definition of generator site/certified program
 - Reporting Non-administrative non-conformances
 - Proposed verbiage for changes in Renewal Application Attachments A, B thru B7 (Waste Analysis Plan) I, M1, M2, N, N1, and Q
-

Public Participation

- **Early Informational Meetings**
 - Carlsbad 8/26/08
 - Santa Fe 8/28/08
 - Draft provided to stakeholders ahead of meetings
 - **Pre-Application Meetings**
 - Carlsbad 2/10/09
 - Santa Fe 2/12/09
 - **Next Pre-Application Meetings (Plan Dates)**
 - Carlsbad 4/28/09
 - Santa Fe 4/30/09
-

Upcoming Dates

- **Next Pre-Application Meetings (Plan Dates)**
 - Public Notice of Pre-Application Meeting: March 28, 2009
 - Copy of Draft 4 Changes to Stakeholders: April 15, 2009
 - April 28, 2009: Carlsbad
 - April 30, 2009: Santa Fe

- **May 30, 2009: Renewal Application Due Date**

Send Comments to:

**Bobby St. John
Public Affairs
P.O. Box 2078
Carlsbad, New Mexico
88221**

Presentation of Supplement A

Re-Evaluation of the 300-Year Performance Demonstration

Mike Gross

List of Attendees

May 5, 2009, Pre-Application Meeting in Carlsbad, NM

Carlsbad, New Mexico

May 5, 2009

**U.S. Department of Energy
WIPP Hazardous Waste Facility Permit Renewal Application
To the Hazardous Waste Facility Permit
Waste Isolation Pilot Plant**

Name <i>Please Print All Information Clearly</i>	Mailing Address <i>Would You Like to be on the Mailing List</i>	Yes/No	
Joey Samanco			X
David Statham			X
N.T. Rump			

List of Attendees

May 7, 2009, Pre-Application Meeting in Santa Fe, NM

Santa Fe, New Mexico

May 7, 2009

**U.S. Department of Energy
WIPP Hazardous Waste Facility Permit Renewal Application
To the Hazardous Waste Facility Permit
Waste Isolation Pilot Plant**

Name <i>Please Print All Information Clearly</i>	Mailing Address <i>Would You Like to be on the Mailing List</i>	Yes/No
Jerry Fox	PECOS MGT Ser Co 7901. Mountain Rd 87110	✓
Just Greenwood	202 Harvard SE 1016 NM 87106	✓
Dorie Bunting	202 Harvard SE 87106 06	✓
Bob Press	901 Adams Aky SE 87108	✓
Floy Barrett	316 Washington N.E Albuquerque, N.M. 87108	✓
SHERY KEENEY	PECOS management Services PO Box 13343, Albuq. NM 87112	✓
CHRISTOPHER M. TIMM	PECOS Management Services P.O. Box 13343, ALBUQ. NM 87112	✓

Written Comments from the February 10/12, 2009 Pre-Application Meetings

Most, Wille

From: Plum, Jody - DOE
Sent: Thursday, May 14, 2009 7:04 AM
To: Most, Wille; St. John, Bobby
Subject: FW: Permit renewal application

IMPORTANT - a comment.

-----Original Message-----

From: Don Hancock [mailto:sricdon@earthlink.net]
Sent: Wednesday, May 13, 2009 3:34 PM
To: Plum, Jody - DOE
Subject: Permit renewal application

Jody,

I'm sending this to you, since the email address that I have for Bobby St. John doesn't seem to work.

This quick email is to try to emphasize one point I made at the May 7 pre-application meeting, but is not a finely crafted comment as SRIC normally does because of time constraints that I have.

I strongly encourage the permittees to NOT change "Generator/Storage Site" to "Certified Characterization Program/"

Such a change requires dozens (if not hundreds) of changes in the existing permit. I believe that the change is unnecessary, since the permittees have not identified the problem with the existing language, which has been in place for the last 10 years (and in the drafts of the original permit application). The existing generator/storage site language is well established in RCRA, so the new language also is confusing. ("Generator site" also is used hundreds of times in the CCA and is not being proposed to be changed in the RCA filed in March with EPA, so changing it in the RCRA permit is inconsistent and confusing.) I believe that there are likely to be unintended consequences with the proposed new language. One example is that it might require some discussion of CCP in the LANL permit renewal, which has been the subject of months long negotiations.

There are other concerns about the change, but I hope that the point -- and the importance of the issue -- has been made. Please return to the language in Draft 3, which retained the "generator/storage site" language of the existing permit.

Don Hancock
Southwest Research and Information Center PO Box 4524 Albuquerque, NM 87196
505/262-1862

PECOS MANAGEMENT SERVICES, INC.

May 14, 2009

Mr. Vernon Daub
Deputy Manager
U.S. Department of Energy
Carlsbad Field Office
P.O. Box 3090
Carlsbad, NM 88221

Subject: Contract No. DE-AC30-06EW03005 "Comments on Draft No. 4 of the Hazardous Waste Facility Permit Renewal Application"
PECOS Document #2009-C-0029

Dear Mr. Daub:

PECOS Management Services, Inc. (PECOS) is pleased to submit the enclosed comments on the Preliminary Draft Hazardous Waste Facility Permit (HWFP) Renewal Application for the Waste Isolation Pilot Plant (WIPP), which was provided for our review on April 23, 2009. The PECOS review was based upon our belief that the intent of the HWFP should be to enable DOE to facilitate disposal of transuranic (TRU) waste in WIPP as efficiently and safely as possible as directed by the authorizing federal legislation. From that perspective, PECOS believes that the proposed HWFP renewal should be written to ensure maximum flexibility of operations for the WIPP while maintaining a high standard of health and safety for the workers and public. Further, we believe that the overall health and safety of all of the facets of characterizing, treating, transporting, and disposing TRU waste in WIPP should be evaluated and changes proposed to the permit that reduce the risk associated with characterization and treatment without increasing the risks during transportation and disposal. PECOS also suggests that DOE pursue the elimination of any permit requirements that have been proven to be not necessary based upon the over ten years of operating data. Such actions will improve the efficiency and facilitate the safe disposal of TRU waste in WIPP.

Based on the above concepts, PECOS first suggestion is to revise the proposed language in Chapter B and its appendices regarding prohibited items as shown on Attachment A. You will note that our proposed revisions address several issues. With respect to the liquid limits, we suggest that the permit language be changed to a limit of one percent of the volume of the acceptable waste containers. We have not found any literature documenting that there is a greater risk that eliminating the volumetric constraint on liquids in internal containers will cause a breach in any waste container, particularly since corrosive and reactive wastes are prohibited in general. This proposed change is further supported by the experience of WIPP with the transport and disposal of acceptable waste containers that were found to have liquids in excess of the current permit limits. The safe transport, placement, recovery, and return transport of acceptable waste containers with liquids over the current permit limits indicate that there is minimal risk with the transport and disposal of large volumes of liquids in acceptable waste containers in the first place.

PECOS MANAGEMENT SERVICES, INC.

Mr. Vernon Daub
U.S. Department of Energy
May 14, 2009
Page 2

In contrast, efforts to re-package TRU waste to remove liquids has resulted in several workers being exposed to radiation despite the stringent health and safety practices being used for re-packaging or treatment to reduce the liquids in acceptable waste containers to below permit limits. One example is the accident that occurred at the Savannah River Site in 2006, where an operator received a puncture wound on his left thumb and clothing/skin contamination while repackaging TRU waste. Our reports entitled "*An Evaluation of the Health and Safety Risks resulting from Repackaging TRU Waste for Disposal at WIPP*", which was provided to DOE in September 2008, and "*Potential Health and Safety Impacts of Removal of Containers from the Waste Isolation Pilot Plant*", which was provided to DOE in November 2008 provides further discussion to support the revision of the liquid limits.

A second suggested change is to revise the restriction on compressed gas containers inside acceptable waste containers. As with liquids, it appears that the health and safety risks to the workers who have to remove any pressurized internal containers from the payload containers is greater than the potential risk of a deflagration of a pressurized internal container during transport or disposal.

A third suggested change is to delete all of the requirements for headspace gas (HSG) sampling. The gas monitoring tests specified in the CH-TRAMPAC in response to Department of Transportation and Nuclear Regulatory Commission requirements are sufficient to protect worker and public health and safety, which negate the need for HSG sampling. In addition, the data collected since the HSG monitoring requirements were changed in 2006 indicate that there are such low concentrations of volatile organic compounds (VOC) present that continued sampling and testing is not warranted. Our evaluation indicates that the earlier conclusion by the National Research Council report in 2000 that there is no utility in the information provided by HSG is still valid.

We also suggest that the VOC monitoring requirements be amended in the new permit. The current VOC monitoring requirements were predicated on protecting worker health and safety in the event of a roof fall or other accident that would cause an instantaneous release of high concentrations of VOCs from the disposed waste. However, the results of the HSG sampling over the past ten years indicate that the concentrations of VOCs in the waste containers is orders of magnitude less than originally projected and would not result in ambient concentrations in WIPP anywhere near the action levels specified in the current permit. Further, the current VOC monitoring program does not provide any instantaneous warning of ambient VOC concentrations that exceed the permit action levels so does not provide effective worker health and safety protection. It is suggested that DOE consider replacing the current VOC monitoring system with a system that is triggered by the shock wave that would be generated if there were a sizeable roof fall or if a stack of waste containers fell over.

PECOS MANAGEMENT SERVICES, INC.

Mr. Vernon Daub
U.S. Department of Energy
May 14, 2009
Page 3

In addition to the above suggested changes, the statement is made on page 2 of the necessary information Section of Part B, that “*The DOE plans to dispose of up to 4,919,769 ft³ (139,312 m³) of contact-handled (CH) waste and 93,050 ft³ (2,635 m³) of remote-handled (RH) TRU mixed waste in Panels 1 to 8.*” However, based upon how much RH TRU waste has actually been disposed in Panels 1 through 4 and assuming the current disposal plan of horizontal boreholes for RH TRU waste is continued for Panels 5 through 8, no more than 2,454 m³ can be emplaced in Panels 1-8. Therefore, the renewal application should describe how DOE plans to emplace the additional 181 m³. If the intent is to accomplish this through the use of shielded containers, then a discussion on shielded containers should be added to all the appropriate parts of the renewal application.

We also reiterate the concerns raised in our May 12, 2009 letter commenting on draft No. 3 of the renewal application. Specifically, we recommend that DOE includes in this renewal application:

- A request to increase the permitted capacity for RH TRU waste disposal in Panels 5 and 6 to that permitted for Panel 7,
- The option to emplace RH TRU waste in the same room where CH TRU waste is being emplaced as long as all DOE health and safety requirements are met,
- A description of shielded containers, the Standard Waste Box 2 and the TRUPACT III as planned future permit modification requests – a practice that is commonly called out in other sections of the current permit.

With respect to the substantial number of nomenclature changes and general clarification type revisions proposed by DOE in this renewal application, we believe that the application package should provide a clear justification of the reason for and benefit of those types of changes. For example, the while the discussions about the certified characterization program are intended to simplify the permit from DOE’s perspective, they are confusing to much of the general public. Similarly, the deletion of entire sections or paragraphs without an explanation as to why they are being deleted (which could be accomplished by a parenthetical statement in the text) causes unnecessary confusion.

Finally, given the increased emphasis of this Administration on implementing ‘green’ practices and approaches, we suggest that DOE either provide paper copies as double-sided copies or delete the numerous pages annotated “This page intentionally left blank” in all single-sided copies.

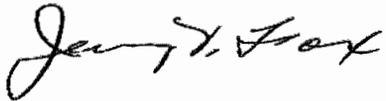
Notwithstanding the above comments, we do want to commend the renewal application preparation team in that draft No. 4 is much better edited than the previous drafts. However, we still noted numerous grammatical errors; identifications of which are provided in Attachment B.

PECOS MANAGEMENT SERVICES, INC.

Mr. Vernon Daub
U.S. Department of Energy
May 14, 2009
Page 4

We appreciate the opportunity to review the draft and look forward to the opportunity to review the complete application including all of the proposed changes to the HWFP text and attachments. Please call me or Christopher Timm at (505) 323-8355 should you have any questions.

Sincerely,



Jerry V. Fox, PhD
Project Director

cc: M. Long, EMCBC
R. Nelson, DOE
J. Plum, DOE
B. St. John, WRES
S. Kilgore, PECOS
C. Timm, PECOS

PECOS MANAGEMENT SERVICES, INC.

ATTACHMENT A

PROPOSED REVISED LANGUAGE FOR THE HAZARDOUS WASTE FACILITY PERMIT – MODULE II.

II.C.3. Treatment, Storage, and Disposal Facility Waste Acceptance Criteria (**TSDF-WAC**)

The Permittees shall not accept TRU mixed wastes at WIPP for storage, management, or disposal which fail to meet the treatment, storage, and disposal facility waste acceptance criteria as presented in Permit Conditions II.C.3.a through II.C.3.j of this Permit.

II.C.3.a. Liquids - the volume of liquid present in any acceptable waste container (See Condition III.C.1) may not exceed 1 percent volume of that container. If either the 85 gallon drum or ten drum overpack are used as overpacks to transport and dispose of other acceptable waste containers, the volume of liquid present in the overpack shall not exceed one percent of the volumes of the acceptable waste containers within the overpack container.

II.C.3.b. Pyrophoric materials - non-radionuclide pyrophoric materials, such as elemental potassium, are not acceptable at WIPP.

II.C.3.c. Non-mixed hazardous wastes - hazardous wastes not occurring as co-contaminants with TRU wastes (nonmixed hazardous wastes) are not acceptable at WIPP.

II.C.3.d. Chemical incompatibility - wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes are not acceptable at WIPP.

II.C.3.e. Explosives and compressed gases - wastes containing explosives or more than one unvented internal container of compressed gases greater than one liter in volume are not acceptable at WIPP.

II.C.3.f. PCB waste - wastes with polychlorinated biphenyls (**PCBs**) not authorized under an EPA PCB waste disposal authorization are not acceptable at WIPP.

II.C.3.g. Ignitable, corrosive, and reactive wastes - wastes exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003) are not acceptable at WIPP.

II.C.3.h. Unvented waste containers. All acceptable waste containers must be vented as specified in Att. M1 including those used as overpacks.

PROPOSED CHANGE IN TEXT FOR THE HAZARDOUS WASTE FACILITY PERMIT RENEWAL APPLICATION, CHAPTER B

B-1c Waste Prohibited at the WIPP Facility

The following TRU mixed waste are prohibited at the WIPP facility:

- Liquids in waste containers. None of the acceptable waste containers (Module III, Section III.C.1) shall contain liquids in excess of one percent of the volume of that container. This limit includes any liquids observed in internal containers (jars, cans, bags, tubing, etc.) located within the waste and any liquids that can be discerned as liquids either in the waste (a pocket of liquid) or between the waste and the sides of the waste container, including any liquids present between any inner liners and the sides of the waste container.
- Liquids in overpack containers. When one of the acceptable waste containers (restricted to the 85 gallon drum and the ten drum overpack) is used to overpack other waste containers, the total volume of liquids in the overpack container is limited to one percent of the volumes of the waste containers in the overpack container.
- Payload containers with U134 waste shall have no detectable liquid in either internal containers or in the waste container.
- Non-radionuclide pyrophoric materials, such as elemental potassium.
- Hazardous wastes not occurring as co-contaminants with TRU mixed wastes (non-mixed hazardous wastes).
- Wastes incompatible with backfill, seal and panel closures materials, container and packaging materials, shipping container materials, or other wastes.
- Wastes containing explosives or unvented internal containers of compressed gases greater than 1 liter in volume.
- Wastes with polychlorinated biphenyls (PCBs) not authorized under an EPA PCB waste disposal authorization.
- Wastes exhibiting the characteristic of ignitability, corrosivity, or reactivity (EPA Hazardous Waste Numbers of D001, D002, or D003).
- Any waste container (including overpacks) that has not been vented as specified in App M1.
- Any waste container from a waste stream (or waste stream lot) which has not undergone either radiographic or visual examination of a statistically representative subpopulation of the waste stream in each shipment, as described in Permit Attachment B7
- Any waste container from a waste stream which has not been preceded by an appropriate, certified WSPF (see Section B-1d).

Before accepting a container holding TRU mixed waste, the Permittees will perform waste confirmation activities on each waste stream shipment to confirm that the waste does not contain ignitable, corrosive, or reactive waste and the assigned EPA hazardous waste

PECOS MANAGEMENT SERVICES, INC.

numbers are allowed for storage and disposal by this Permit. Waste confirmation activities will be performed on at least 7 percent of each waste stream shipped, equating to examination of at least one of fourteen containers in each waste stream shipment. If a waste stream shipment contains fewer than fourteen containers, one container will be examined to satisfy waste confirmation

requirements. Section B-4 and Permit Attachment B7 include descriptions of the waste confirmation processes that the Permittees will conduct prior to receiving a shipment at the WIPP facility.

To ensure the integrity of the WIPP facility, waste streams identified to contain incompatible materials or materials incompatible with waste containers cannot be shipped to WIPP unless they are treated to remove the incompatibility. Only those waste streams that are compatible or have been treated to remove incompatibilities will be shipped to WIPP.

PECOS MANAGEMENT SERVICES, INC.

ATTACHMENT B

General and Editorial Comments

The following comments are organized by renewal application part, chapter, appendix or addendum. Within each of those categories, they are presented as General comments first and then by page and line number.

Abbreviations and Acronyms:

General: Master list does not contain many of the acronyms and abbreviations used in Chapter L

List of Figures

General: Does not include the figures presented in Part A .

Page 4, Line beginning with I2-7: "Multid-deck" should be "Multi-deck"

Page 5, Line beginning with L1-11: "withGypsum" should be "with Gypsum"; line beginning with J1-4 "Fenceline" should be "Fence line"

Page 6, Line beginning with L1-19 "Drillholes" should be "Drill holes"

Introduction

Page 3, Line 27: should end with a close quotation mark

Necessary Information Part B

Page 2, Line 1: "Sections 17 to 22" should read "Sections 15-22"

Page 2, line 12: "CH" should be bolded.

Page 6, line 28: The second instance of "Eddy County" should be followed by a comma.

Page 7, line 14: The second instance of "Eddy County" should be followed by a comma.

Page 11, line 9: This sentence should end with a period.

Pages 12-13: The term "ground water" is being written inconsistently and should be revised after selecting one way of being written.

PECOS MANAGEMENT SERVICES, INC.

Page 18, line 24: This paragraph should end with a period.

Page 19, line 7: Waste Analysis Plan should be italicized.

Page 20, line 25: The period after "264.602" should be changed to a comma.

Page 20, line 26: "RCRA Part B Application" should be followed with a period.

Page 21, line 1: "There is no change" should read "There are no changes"

Page 21, line 4: "land use" should be changed to "land-use"

Chapter A

Page 2, lines 33 & 34: Since Panels 9 and 10, as currently planned and shown on various figures in this renewal application (Part A, Figure 3-2 for example), will not have seven rooms, the text on line 33 should be modified.

Chapter B

Page 8, line 17: The phrase "headspace gas" should be removed.

Page 9, line 11: TSDF-WAC does not need to be bolded.

Page 12, lines 34-37: This text should be moved to Appendix M1, Section M1-1b – it is more appropriate there.

Page 22, lines 2-3: The phrase "acceptable knowledge" should be removed.

Page 25, line 23: "TC" should replace "toxicity characteristic"

Page 25, line 31: "Transuranic" should replace "TRU"

Page 25, line 44: The phrase "drum age criteria" should be removed.

Page 36, line 7: The phrase "Carlsbad Field Office" should be removed.

Page 41, line 19: Replace "SWBs" with "standard waste boxes (**SWBs**)"

Page 41, lines 19-20: Replace "TDOPs" with "ten drum overpacks (**TDOPs**)"

Page 65, line 5: Replace "Contract" with "Contact"

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Addendum B1

Page 1, line 9: The first instance of "RTL" should be bolded.

Page 1, line 11: "TC" should be bolded.

Page 1, line 13: "TCLP" should be bolded.

Page 1, line 17: "Pb" should be bolded.

Page 2, line 15: "EPA" should be bolded.

Addendum B2

Page 1, line 8: "CH", "RH", and "TRU" should be bolded.

Page 1, line 9: "WTWBIR" should be bolded.

Page 1, line 16: "EPA" should be bolded.

Appendix B1

Page 3, line 26: Insert "*the Determination of Drum Age Criteria and Prediction Factors Based on Packaging Configurations*" before the word "BWXT" and change BWXT (2000) to [BWXT (2000)]

Page 31, line 7: Insert (Lockheed) after "Company"

Appendix B2

Page 4, line 14: "WSPF" should be bolded.

Appendix B3

Page 30, Lines 8-10: Complete bullet should be removed since only toxicity characteristic organics are being reported.

Page 33, Line 14: Complete bullet should be removed since only toxicity characteristic organics are being reported.

Page 62 (Table B3-13): The TIC evaluation line needs to be removed since only toxicity characteristic organics are being reported.

Appendix B4

Page 2, line 38: Replace “AK Sufficiency Determination” with “AKSD”

Page 7, line 22: “WSPF” should be bolded.

Chapter D

Page 1, line 15: Replace “WIPP” with “Waste Isolation Pilot Plant (**WIPP**)”

Page 2, line 15: Include a definition for the term “CHAMPS”

Chapter E

Page 1, line 10: Replace “WIPP” with “Waste Isolation Pilot Plant (**WIPP**)”

Page 2, line 36: Replace “TRU mixed wastes are handled” with “TRU mixed waste is”

Page 5, line 39: Replace “10 55-gallon drums” with “ten 55-gallon drums”

Page 10, line 23: Replace “discusses” with “discuss”.

Chapter F

Page 1, line 13-14: Replace “New Mexico Administrative Code” with “New Mexico Administrative Code (**NMAC**)”

Chapter G

Page 1, line 5: Replace “WIPP” with “Waste Isolation Pilot Plant (**WIPP**)”

Page 3, line 32: “SWB” should be bolded.

Appendix H1

Page 1: Provide a definition for the term “TRU”

Appendix H2

General: Many acronyms in this section are used without having been defined prior to their use.

Chapter I

Page 1, footnote 1: In the second sentence, the term "VOCs" should be bolded.

Page 25, page 8: Remove the number 4 from the first sentence.

Appendix I1

General: Some acronyms are defined and bolded twice within this part of the document.

Chapter L

General: The acronyms and abbreviations included in Chapter L are not always included in the Master Acronym and Abbreviation List for the renewal application.

Page 22, footnote 7: Replace "prior to the" with "prior to the"

Addendum L

General: Figures L-1 and L-2 are not indicated in the text.

Page 48, line 35 and page 49, line 22: Room Q, which is mentioned on both these pages, is not identified in any figure or otherwise described in the text.

Page 56, line 28: The text refers to Figure 2-36, which is not one of the figures listed for this addendum.

Chapter M

Page 1, Lines 18 and 24-25: The use of HWMU in line 18 is contradictory to the use of hazardous waste disposal units in lines 24-25 since line 18 refers to units in the repository as do lines 24-25. Suggest changing HWMU to HWDU in line 18.



May 15, 2009

Bobby St. John
WTS Public Affairs
PO Box 2078
Carlsbad, NM, 88221

Sent via email to bobby.stjohn@wipp.ws

Dear Bobby,

Nuclear Watch New Mexico respectfully submits these comments on the April 21, 2009 revision of the WIPP HWFP renewal application. Quotes from the renewal application are in italics, followed by our comments. Thank you for your continuing efforts to involve the public.

Introduction

Pg. 2

- *Change “Generator/Storage Site” to “Certified Characterization Program” to identify responsibilities for characterizing waste to the WIPP Waste Analysis Plan (WAP).*
- *Delineate CCP and AMWTP as the only certified characterization programs*
- *Change “Site” to U. S. Department of Energy (DOE) TRU waste site or DOE contract TRU waste site (i.e., TRU waste site)*

This seems to be a major change. Please provide some more explanation. The existing language was working, so why change it? “Generator/Storage Site” is a clearly-defined, broadly used RCRA term. Is this just a change in terminology or does this indicate a change in procedures as well? How will this impact possibly existing permits, such as the LANL RCRA permit? How will this impact past record-keeping?

- *Removed the distinction between newly generated waste characterization requirements and retrievably stored waste*

Why was this changed and what are the impacts?

Pg. 4

The version of the Permit used to create the Renewal Application is the version the NMED has posted on its web page as of May 29, 2009, and includes any approved permit modifications.

May should be March.

Slide 16 of your public presentation mentioned eliminating Permittee Management Representative review. This does not show up in your Introduction or Summary of Changes.

Summary of the proposed changes

Please also list the page and line number of the first instance of a specific change in the summary of proposed changes.

For instance, where can the “information to authorize the disposal of TRU waste in Panel 8” mentioned under the Chapter A paragraph be located?

Waste Analysis Plan Chapter B through B7

An actual list of the changes would be good here. Your Introduction is a much better summary and maybe should be re-titled “Introduction to Changes”.

Necessary Information for the WIPP Ten Year Renewal Application, Part A

(a) The activities conducted by the applicant which require it to obtain a permit under RCRA.

No changes are being proposed to the activities conducted at the Waste Isolation Pilot Plant (WIPP) that entails receiving, unloading, and transferring radioactive-mixed waste from the surface of the site to the underground hazardous waste management units. Waste will be emplaced in an underground geologic repository horizon located in a deep-bedded salt formation approximately 2,150 feet beneath the surface.

Are there really no changes? How about emplacement of MgO on racks?

(i) A description of the processes to be used for treating, storing, and disposing of hazardous waste, and the design capacity of these items.

The Permittees propose no change in the manner in which they store or dispose of TRU mixed waste, except for requesting the authorization for the disposal of TRU-mixed waste in Panels 8. The Permittees do not treat TRU mixed waste.

Are there really no changes? How about emplacement of MgO on racks?

Chapter A

Pg. A-2

The WIPP underground area is designated as Panels 1 through 10, although only Panels 1 through 7 and any current active panel will be used to receive TRU waste for disposal under the terms of this Permit permit. Each of the seven rooms is approximately 300 feet long, 33 feet wide and 13 feet high.

Please add a line that Panel 8 is being added to the permit instead of only just changing the number “7” to “8”. Please explain why this Panel is being included in the permit.

Chapter B

Pg. B-1

Before the Permittees manage, store, or dispose transuranic (TRU) mixed waste from a U.S. Department of Energy (DOE) TRU waste site or DOE contract TRU waste site (TRU waste site) generator/storage site (site), the Permittees shall require that site the Carlsbad Field Office (CBFO) certified waste characterization program (certified characterization program) established at the TRU waste site to implement the applicable requirements of this WAP. Certified characterization programs are limited to the Central Characterization Project characterizing TRU mixed waste (after receiving certification at that site) and the Advanced Mixed Waste Treatment Project characterizing TRU mixed waste at the Idaho National Laboratory. The TRU mixed waste that may be stored or disposed at WIPP is are or was were generated at TRU waste DOE generator/storage sites by various specific processes and activities.

Maybe some definitions are order for “U.S. Department of Energy (DOE) TRU waste site” and “DOE contract TRU waste site”. And/or maybe you should list all the sites and state which is which.

Pg. B-2

~~Some TRU mixed waste is retrievably stored at the DOE generator/storage sites. Additional TRU mixed waste will be generated and packaged into containers at these generator/storage sites in the future. TRU mixed waste will be retrieved from storage areas at a DOE generator/storage site. Retrievably stored waste is defined as TRU mixed waste generated after 1970 and before the New Mexico Environment Department (NMED) notifies the Permittees, by approval of the final audit report, that the characterization requirements of the WAP at a generator/storage site have been implemented. Newly generated waste is defined as TRU mixed waste generated after NMED approves the final audit report for a generator/storage site. Acceptable knowledge (AK) information is assembled for both retrievably stored and newly generated waste. Waste characterization of retrievably stored TRU mixed waste will be performed on an ongoing basis, as the waste is retrieved. Waste characterization of newly generated TRU mixed waste is typically performed as it is generated, although some characterization occurs post-generation. Waste characterization requirements for newly generated and retrievably stored TRU mixed wastes differ, as discussed in Sections B-3d(1) and B-3d(2).~~

Why was this removed?

Pg. B-31

B-4a(7) Records Management

Where did this go?

Pg. B-65

~~Generator TRU Waste Site Name:~~

~~Generator TRU Waste Site EPA ID:~~

Does EPA issue ID numbers for “TRU Waste” sites or does it still use the term “generator site”?

App I

Nuclear Watch New Mexico • Comments on WIPP HWFP renewal

Figures I1-1 to I1-7 could not be read on my computer. (They would not show up.) I assume that there were no changes to these figures.

App M-1

Pg. 20

Off-normal events could interrupt normal operations in the waste management process line. These off normal events fall into the following categories:

Waste management system equipment malfunctions

Waste shipments with unacceptable levels of surface contamination

Hazardous Waste Manifest discrepancies that are not immediately resolved

A suspension of emplacement activities for regulatory reasons

Shipments of waste from the generator ~~TRU waste~~ sites will be stopped as appropriate for in any events which results in an interruption to normal waste handling operations that exceeds three days.

Please remove “as appropriate” and add “any” back in, or define “as appropriate” and list events that will not stop shipments.

App M-2

Pg. 8

Typical emplacement configurations are shown in Figure ~~M2-4s~~ M2-5 and M2-5a.

~~Backfill may also be emplaced on racks which allow for orderly stacking. Quality control will be~~ provided within standard operating procedures to record that the correct number of sacks ~~are~~ is placed and that the condition of the sacks is acceptable.

&

Figure M2-5

RESERVED

Please be sure and include a picture of the rack emplacement.

Thank you for your consideration,
Scott

Scott Kovac
Operations and Research Director
Nuclear Watch New Mexico
551 Cordova Road #808
Santa Fe, NM, 87501
505.989.7342 office & fax
www.nukewatch.org

Scott, Susan

From: St. John, Bobby
Sent: Monday, May 18, 2009 11:15 AM
To: Scott, Susan
Subject: FW: Ten Year WIPP Renewal Process.

Comments 2 of 2

-----Original Message-----

From: Marina Day [mailto:marinaday123@yahoo.com]
Sent: Fri 5/15/2009 6:55 PM
To: St. John, Bobby
Subject: Ten Year WIPP Renewal Process.

May 15, 2009, Friday.

WIPP Worker Bobby St. John,

I am not going to comment on all aspects of the ten year WIPP renewal of the permit issued by the state of New Mexico Environment Department because it is too broad for me to want to deal with.

I do not like the proposed change of language on Chapter B, Section B-0d from confirmation prior to shipment to "prior to receipt" because prior to receipt could mean that trucks with shipment of nuclear waste could be confirmed right before they arrive at WIPP, and if there are errors, and the wrong waste is shipped then the trucks might have to go all the back to the generator site that is came from.

I would much rather catch errors at the generator sites before shipping the nuclear waste and not after shipping the nuclear waste and finding out errors on the way to WIPP.

Also, Bobby St. John, I am glad that I received your e-mail address of bobby.stjohn@wipp.ws partly because I did not use any paper to submit this e-mail to you, which is less demand to cut down trees, and it is more environmentally friendly.

I suggest that if you continue to be the contact person for WIPP related matters then not only included a mailing address in which people can mail letters to you using the U.S. postal service, but also include your telephone number and your e-mail address.

I am also sending a copy of this e-mail within a few minutes of the time I send you this e-mail to Steve Zappe who is a state of New Mexico Environment Department WIPP regulator.

Thank you for your time in these matters.

Sincerely,

Marina Day

WIPP Renewal Application Permit Comments

Some Areas of Concern

The Document

Though DOE's application, which is the size of two phone books, is well-formatted, it is a muddled document; in the permit application it is not always clear where the new language DOE wants to insert begins and what the older, accepted language is, so it is often necessary to ask DOE to clarify what they are intending to do and what the language is that they want to insert. The changes that DOE proposes are not properly referenced.

AKSD

Some waste that comes to WIPP is verified by Acceptable Knowledge Sufficiency Determination. The standards for this method of determination are necessarily high since no visual examination is done on the wastes before shipping to WIPP. DOE is changing the language concerning AKSD. Why are they doing this? What is the exact change? Will this change weaken the strict standards for using AKSD?

Liquid Prohibition

Liquids have always been prohibited at WIPP -- since the first discussions about the facility in the 1970s. Weapons plants have flammable and explosive liquids that substantially raise the risk of fires, explosions and other problems in shipment, storage, and disposal. Liquids are also susceptible to leaks and spills, which are dangerous. So they have been, and should be, prohibited at WIPP.

The new language that DOE is proposing seems to loosen the restriction of liquids at WIPP. LANL, especially, and other sites, have lots of sludges with liquids, so this is not an appropriate time to loosen requirements. We are playing with fire (and explosions) if we weaken the restrictions on liquids in WIPP drums.

Visual Examination

Pages of description of how VE is to be done have been crossed out in the Permit Renewal Application; in their place are a few short paragraphs. Because of the way this strike out and replacement wording has been done, it is difficult to understand what has been taken out and what has been left

in. It seems like the requirements for visual examination of drums have been diminished. CARD objects to diminishing the requirements for visual examination, the cornerstone of safe shipping and disposal at WIPP.

Confirmation

Confirmation means the use of visual examination or radiography on a representative subpopulation of each waste stream-at least seven percent- to confirm that the waste does not contain ignitable, corrosive or reactive waste. The DOE is required to do this examination and provide the state with the pertinent documents before waste leaves the generator site for WIPP. In the Permit Renewal Application, DOE would not be required to execute the confirmation or submit the relevant documents until after the waste has arrived at WIPP. CARD sees this change as a slippage in safety standards and objects to the change.

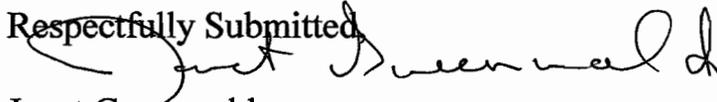
Why Drums are Vented

The permit, according to the Permit Renewal Application now reads: "Containers are vented through filters, allowing any gasses that are generated by radiolytic and microbial processes within a waste container to escape, thereby preventing over pressurization or development of conditions within the container that would lead to the development of ignitable, corrosive, reactive, or other characteristic wastes."(B-12, lines 34-37) The Permit Renewal Application would strike the words after 'over pressurization', giving an incomplete picture of why WIPP drums are vented.

300 Year Performance Demonstration Reevaluation and Water Monitoring

CARD will comment concerning these subjects after Rick Boheim's report and the results of DOE/NMED negotiations concerning water monitoring are made available to the public.

Respectfully Submitted,



Janet Greenwald

Co-coordinator Citizens for Alternatives to
Radioactive Dumping, CARD

I certify that these comments were mailed to Bobby St. John, PO Box 2078,
Carlsbad, New Mexico 88221 on May 15, 2009.



Materials Submitted at the Pre-Application Meetings

May 5th, 2009

*WIPP Hazardous Waste Facility
Permit Renewal Application*

Carlsbad, NM, May 5, 2009

Santa Fe, NM, May 7, 2009

Renewal Application

- Per Permit Condition I.B.2, *The Permittees may renew this Permit by submitting an application for a new Permit at least one hundred eighty (180) calendar days before the expiration date of this Permit*
- Renewal Application will be submitted to NMED no later than May 29, 2009

Public Participation

- Informal informational meeting with stakeholders in August 2008 to discuss the approach to the Renewal Application
 - Informal informational meeting with stakeholders on April 24, 2009, to present changes to Renewal Application since Draft 3 (Waste Analysis Plan changes)
-

Renewal Application

- **First set of Pre-Application Meetings** (required per 20.4.1.901C(1) NMAC incorporating 40 CFR 124.31)
 - February 10, 2009, Carlsbad, New Mexico
 - February 12, 2009, Santa Fe, New Mexico
 - Permittees introduced changes that would be in the draft Renewal Application and introduced the need to revise the Waste Analysis Plan chapter of the Renewal Application
 - Permittees requested public comment

Renewal Application

Second set of Pre-Application Meetings (required per 20.4.1.901C(1) NMAC incorporating 40 CFR 124.31)

- May 5, 2009, Carlsbad, New Mexico
- May 7, 2009, Santa Fe, New Mexico

- **Posted Draft WIPP Hazardous Waste Facility Permit Renewal Application - April 2009 on WIPP Homepage** (consistent with 20.4.1.901.E NMAC incorporating 40 CFR 124.33)

- http://www.wipp.energy.gov/library/rcrappermit/Draft_Renewal_Application_4_24_09.htm

Summary of Changes

- Revised information is provided to reflect TRU waste disposal in Panel 8
- Disposal unit waste disposal capacities were added to Appendix M2. Made a statement that backfill (MgO) may also be emplaced on racks.

Summary of Changes

- Clarified historical and descriptive text in Chapter L
 - Addendum L1 (Site Characterization) to Chapter L has been added to present updated information

 - Added tables regarding storage capacities to Appendix M1

 - Clarified in Appendix M1 container accountability practices upon receipt
-

Summary of Changes

- Added Tables in Chapter N and Appendix N1 identifying concentrations of concern, limits, and action levels for Volatile Organic Compound and Hydrogen/Methane Monitoring
- Included the WIPP Mine Ventilation Rate Monitoring Plan as Chapter Q

Summary of Changes

- Added information “addenda” to provide reviewers information on:
 - Totals vs. Toxicity Characteristic Leaching Procedure analytical methodology
 - Compatibility analysis
 - Dispute resolution
 - Site characterization information update
 - 300-year Performance Demonstration Re-evaluation

Summary of Changes

- Included documents used as references in electronic format as “Supplemental Information”
 - Revised Waste Analysis Plan
 - Included “reviewer’s guide” for the Waste Analysis Plan to identify sections where corresponding changes have been made
-

Summary of Waste Analysis Plan Changes

- Deleted redundant text
- Re-ordered Chapter B, Section B-3 to correspond with the order in which characterization is typically performed
- Tech edits throughout
 - Typographical corrections
 - Editorial changes
 - Reference corrections

Summary of Waste Analysis Plan Changes

- Clarified text by:
 - Changing “Generator/Storage Site” to “Certified Characterization Program” or “TRU Waste Site” to identify responsibilities for characterizing waste to the WIPP Waste Analysis Plan
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Summary of Waste Analysis Plan Changes

- Clarified text by (cont.)
 - Clarifying the Liquid Waste Prohibition
 - How it applies to internal containers, payload containers, internal containers inside overpack containers and overpack payload containers
-

Summary of Waste Analysis Plan Changes

- Clarifying the Liquid Waste Prohibition (cont.)
 - The observable free-standing liquid and total residual liquid inside a payload container shall be no more than one percent of the payload container volume
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Summary of Waste Analysis Plan Changes

- Clarified text by (cont.)
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 - Deleting non-Toxicity Characteristic constituents from tables and deleted Tentatively Identified Compound evaluation requirements
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Summary of Waste Analysis Plan Changes

- Clarified text by (cont.)
 - Revising Appendix B7 to focus confirmation on ignitable, corrosive, and reactive waste and hazardous waste numbers
 - Eliminated Permittee Management Representative review and revised training requirements

Summary of Waste Analysis Plan Changes

- Clarified text by (cont.)
 - Revising the solids sampling Quality Assurance Objective to address completeness when either core or non-core sampling is being used
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 - Deleting visual examination in lieu of radiography
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Summary of Waste Analysis Plan Changes

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 - Revising requirement that a minimum of 5 samples is to be obtained from S3000/S4000 waste streams that consist of less than 5 containers
 - One sample of each container will be taken to achieve 100% representativeness

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 - Revising text to require estimation of material parameter weights from Acceptable Knowledge information when a Scenario 1 or 2 Acceptable Knowledge Sufficiency Determination is being requested

Comments on Renewal Application

(to Permittees by May 15, 2009)

■ **Send Comments to:**

Bobby St. John
WTS Public Affairs
P.O. Box 2078
Carlsbad, New Mexico 88221

Materials Submitted at the Pre-Application Meetings

May 7th, 2009

Pre-Application Meetings

Waste Isolation Pilot Plant



May 5, 2009
5 to 7 p.m.
WIPP Information Center
Skeen-Whitlock Building
4021 National Parks Highway
Carlsbad, New Mexico

May 7, 2009
2 to 4 p.m.
6 to 8 p.m.
Courtyard by Marriott
3347 Cerrillos Road
Santa Fe, New Mexico

The U.S. Department of Energy Carlsbad Field Office and Washington TRU Solutions (co-permittees) are hosting pre-application meetings regarding the Hazardous Waste Facility Permit (HWFP) renewal application for the Waste Isolation Pilot Plant (WIPP).

This notice is to inform the public of the pre-application meeting for the WIPP HWFP Renewal Application, as required by the New Mexico Hazardous Waste Management Regulations. The purpose of the pre-application meetings for the WIPP HWFP Renewal Application is to inform stakeholders of the proposed hazardous waste management activities and to solicit questions. The radioactive components of WIPP waste are regulated separately by the U.S. Environmental Protection Agency.

The effective term for the WIPP HWFP is ten years. At least 180-days before the expiration of the current permit (November 26, 2009), the Permittees must reapply for a permit. The Renewal Application must be submitted to NMED no later than May 30, 2009.

The WIPP facility, located 30 miles east of Carlsbad, New Mexico, is designed for permanent disposal of defense-generated transuranic waste, the byproduct of nuclear weapons research and production. WIPP is permitted to dispose only this type of waste. Project facilities include disposal rooms excavated 2,150 feet underground in a stable salt formation.

To obtain information regarding the reapplication or about WIPP operations, contact Mr. Bobby St. John at 1-800-336-9477. The draft renewal application submittal may also be viewed on the WIPP web site, <http://www.wipp.energy.gov>, and at the WIPP Information Center, Skeen-Whitlock Building, 4021 National Parks Highway, Carlsbad, New Mexico.

Persons requiring special assistance to participate in these meetings may also contact Mr. St. John at the telephone number noted above at least 72 hours prior to the meeting.

**WIPP Hazardous Waste Facility
Permit Renewal Application**

Santa Fe, NM, May 7, 2009

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124.33)

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(to Permittees by May 15, 2009)

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