



Department of Energy
Carlsbad Field Office
P. O. Box 3090
Carlsbad, New Mexico 88221
December 21, 2016

 ENTERED

Mr. Ed Gulbransen, Manager
Central Characterization Program
Retrieval, Characterization and Transportation
Nuclear Waste Partnership LLC
PO Box 2078
Carlsbad, NM 88221-2078

Subject: Waste Stream SR-221H-PuOx Concurrence and Approval per CBFO MP 4.15 and MP 5.11

Dear Mr. Gulbransen:

The Carlsbad Field Office (CBFO) received your request for the review and concurrence of the Chemical Compatibility Evaluation Memorandum for Waste Stream SR-221H-PuOx on February 11, 2016. The CBFO has reviewed and determined that the comments generated in review of the subject Chemical Compatibility Evaluation Memorandum (CCEM) have been adequately addressed and the document meets the CBFO requirements. The CBFO concurs with the CCE for Waste Stream SR-221H-PuOx.

The CBFO has also received your request for the review and concurrence of the Basis of Knowledge Concurrence for SR-221H-PuOx on December 20, 2016. The CBFO has reviewed the subject Basis of Knowledge memoranda and concurs with the Basis of Knowledge determination for SR-221H-PuOx.

The CBFO, therefore, approves waste stream SR-221H-PuOx. The Central Characterization Program is authorized to use waste stream SR-221H-PuOx in the Waste Data System (WDS) and to enter containers into the WDS using approved procedures for characterizing and certifying TRU waste for shipment to and disposal at WIPP.

This letter and supporting documentation fulfills the CBFO requirements of the WIPP Documented Safety Analysis, Rev 5.b, Chapter 18.8.

If you have any questions, please contact me at (575) 234-7313.

Sincerely,

J. R. Stroble, Director
CBFO National TRU Program
Compliance Division

Enclosures:
MP 4.15 Enclosures 2 and 3 for SR-221H-PuOx
MP 5.11 Enclosure 1 for SR-221H-PuOx

6-221-1212/16
CBFO:NCD:JRS:RMS:16-2565:UFC 5900.00

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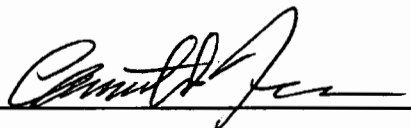
cc: w/enclosures
W. Mackie, CBFO * ED
M. Brown, CBFO ED
G. Basabilvazo, CBFO ED
T. Carver, CBFO ED
N. Castaneda, CBFO ED
C. Fesmire, CBFO ED
D. Miehl, CBFO ED
D. Standiford, CBFO ED
S. Hunt, CBFO ED
M. Ramirez, NWP ED
M. F. Sharif, NWP ED
T. Greenwood, NWP ED
Site Docs ED
WIPP Operating Record ED
CBFO M&RC ED
*ED denotes electronic distribution

CBFO Checklist for Waste Stream(s) CCP SRS CCEM Waste Stream SR-221H-PuOx

Payload Assembly(ies) SR139200, SR139201, SR139206, SR139207, SR139755, SR139756, SR139760, SR139761, SR139766, SR139767, SR139977, SR139978, SR139996, SR139997, SR140015, SR140016

	Yes, No or N/A	Comments
1. Has the payload assembly(ies) identified above been reviewed in accordance with CBFO MP 4.15 for compliance with DOE/WIPP-07-3372 Revision 5b; DOE/WIPP-02-3122 Revision 8?	Yes	See attached Checklists.
2. Is the payload assembly(ies) from LANL?	No	
2.a If NO – Mark 2.b N/A	NA	
2.b If YES – has the DOE Office of Environmental Management Chief Engineer, EM 3.3, provided written recommendation for emplacement based on an independent review of the LANL data package?	NA	
3. Has the documentation for approval and release of the payload assembly(ies) (including written EM 3.3 recommendation, if applicable) been compiled and submitted to the CBFO Contracting Officer for authorization for payload assembly(ies) emplacement?	Yes	See transmittal from NTP to Contracting Officer with checklists attached upon completion of this procedure.

Print Name COURTLAND FESWIRE

Signature 


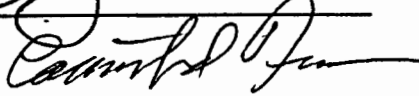
Date 21 Dec 2016

CHEMICAL COMPATIBILITY EVALUATION CHECKLIST

Site: CCP - SRS

CCEM Name: CCEM Waste Stream SR-221H-PuOx

No.	Criterion	Result/Comments
1	Has the Certified Program performed a satisfactory review of the CCEM?	Yes. Verified using the SPM Checklist.
2	Does the CCEM match the current revision of the AK Summary Report?	Yes. CCP-AK-SRS-21 Rev. 2.
3	Do the chemicals listed in the CCEM match those listed in the AK Summary Report or is there a revision pending to include those that are not listed?	No. Ammonium chloride, ethylene oxide not included in Attachment 4 of the CCEM; not significant. Constituents of decontamination agents, toluene detected in HGAS from packaging, and Pu metal contaminants identified in Attachment 4 were not included in the AKSR; not significant.
4	Are the chemicals in the CCEM assigned to the correct RGNs?	Yes
5	Are those chemicals assigned "NA" non-reactive?	Yes.
6	Do the assigned RGNs match those listed in the summarized reactions table and the binary compatibility chart?	Yes.
7	Are the assumptions used to dismiss chemicals from consideration reasonable?	Yes.
8	Are the assumptions used to assign chemical concentrations or quantities reasonable?	Yes.
9	Are there new AK source documents generated to supplement the CCEM? If so, request and review them as necessary.	Yes. P5052 is a new reference; not reviewed (chemicals were identified in other references as well so review of this source document is redundant).
10	Are the compatibility conclusions consistent with the RGN assignment and assumptions (no reaction or the reaction is not significant)?	Yes.
11	Do the compatibility conclusions justify that the waste stream is incapable of initiating an unexpected or incompatible hazardous reaction?	Yes.

Mark Doherty 
 Print and Sign _____
 Courtland Fesmire, CBFO 


12/21/2016
 Date _____
 12/21/2016

PREVIOUSLY CERTIFIED WASTE CHECKLIST

Site: CCP SRS

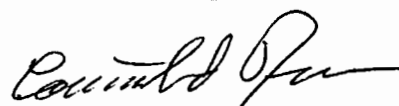
Waste Stream CCEM Waste Stream SR-221H-PuOx

No.	Criterion	Result//Comment
1	Has the Certified Program implemented an enhanced AK process including an enhanced chemical compatibility evaluation for the waste streams, or waste stream sub-populations?	Yes.
2	Has the Certified Program implemented the Basis of Knowledge document in the AK process for evaluating oxidizing chemicals in TRU waste streams to determine acceptability or need for treatment?	Yes.
3	Did CBFO concur with enhanced chemical compatibility evaluation and implementation of the Basis of Knowledge for the evaluated waste stream?	Yes.
4	Did CBFO approve waste streams with acceptable enhanced chemical compatibility evaluation documentation provided by the Certified Program?	Yes.
5	Have the WIPP M&O Contractor Payload Engineers evaluated TRUCON codes to ensure compliance with the enhanced chemical compatibility evaluation?	Yes.
6	Has the WIPP M&O Contractor implemented additional checks in the WDS for each container before those containers can be used to populate payloads in WDS?	Yes.
7	Did the WIPP M&O Contractor obtain written approval from CBFO prior to release of waste streams for shipment?	NA. This waste is stored in the WHB.
8	Has the WIPP M&O Contractor verified each container requested is part of a CBFO-approved waste stream and is it authorized for shipment in WDS?	NA. This waste is stored in the WHB.

Mark Doherty 

Print and sign

Courtland Fesmire, CBFO



12/21/2016

Date

12/21/2016