From: Offner, Steve (CONTR)
To: Foli, Isaac David
Subject: [EXTERNAL] RE: WDS Data Query for Appendix MgO CRA 2026
Date: Tuesday, March 11, 2025 8:48:35 AM
Attachments: TMW, LWA definitions.pdf

ISAAC FOLI (Affiliate)
Digitally signed by ISAAC FOLI (Affiliate)
Date: 2025.03.20 11:28:16 -06'00'

> You don't often get email from steve.offner@wipp.doe.gov. Learn why this is important

Hi Isaac,

I inserted the requested values in your message below…

A few comments:

- As of today, the only underground panels in which waste has been emplaced are panels 1 through 8, so regardless of whether the repository will ultimately consist of 14 or 19 panels, the only data available in the WDS today are for panels 1 through 8.
- Regarding the CPR values, I provided the C, P, and R values separately in order that the weighting factor of 1.7 may be applied to the P (plastics) value as you see fit. (The P values below do NOT include the weighting factor.)
- Regarding the waste volumes, I provided both the Land Withdrawal Act (LWA) and TRU Mixed Waste (TMW) volumes as defined in the attachment.

Let me know if you have any questions.

Steve Offner
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From: Foli, Isaac David <idfoli@sandia.gov>
Sent: Monday, March 10, 2025 11:20 AM
To: Offner, Steve (CONTR) <Steve.Offner@wipp.doe.gov>
Subject: WDS Data Query for Appendix MgO CRA 2026

WARNING - EXTERNAL EMAIL
****
This message does not originate from a known WIPP email system.
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for information.
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Hello Steve,

Information Only

I am responsible for updated the Appendix MgO of the CRA for 2026 which includes details pertinent to the MgO and CPR emplacement figures as they stand by the data cut off. This year there is some uncertainty as to what we may need/should include based on the EPA requirement to complete both a 14 and 19 panel performance assessment. Consequently, the appendix will probably need to include both emplacement numbers for 14/19 panels, essentially considering two independent states where the repository consists of either 14 panels or 19 panels. Hence for the data query it is not necessary that figures are broken down by panel just that the sums are reflective of 14 panels and/or 19 panels, hopefully this will make the retrieval easier.

To that end, would it be possible for you to query the WDS system and return:

- The summed weight of MgO emplaced in Panels 1-14 and also Panels 1-19 from January 8th 2018 – January 10th 2025

  2,912,749.966 kg

  - The total cumulative weight of MgO in Panels 1-14 and also Panels 1-19 as of Jan 10th 2025

    35,803,727.219 kg

- The summed weight of CPR materials emplaced in Panels 1-14 and also Panels 1-19 from January 8th 2018 – January 10th 2025

  C: 410,755.350 kg
  P: 597,913.620 kg
  R: 36,543.830 kg

  - The total cumulative weight of CPR present in Panels 1-14 and also Panels 1-19 as of Jan 10th 2025

    C: 4,247,639.235 kg
    P: 5,354,872.926 kg
    R: 406,388.410 kg

- The summed volumes of CH and RH waste emplaced in Panels 1-14 and also Panels 1-19 from January 8th 2018 – January 10th 2025

Handling Code	LWA Volume (m3)	TMW Volume (m3)
CH	12,502.93	16,323.70
RH	11.44	21.84
Totals:	12,514.37	16,345.54

  - The total cumulative volumes of CH and RH waste emplaced in Panels 1-14 and also Panels 1-19 as of Jan 10th 2025

Handling Code	LWA Volume (m3)	TMW Volume (m3)
CH	77,957.59	108,209.37
RH	368.00	663.64
Totals:	78,325.59	108,873.01

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The # and type of sacks in which the MgO was emplaced in Panels 1-14 and also Panels 1-19 from January 8th 2018 – January 10th 2025

Sack Type	Count
3000 Pound Supersack	1,571
4200 Pound Supersack	407
Total:	1,978

  - (For example, broken down like: (149 3000-lb. Supersacks, 258 4200-lb. supersacks, etc. also no need to be specific to room)

Sack Type	Count
25 Pound Minisack	12,550
3000 Pound Supersack	6,086
4100 Pound Supersack	71
4200 Pound Supersack	14,304
Total:	33,011

- The average MgO excess factor for Panels 1-14 and also Panels 1-19 as it stood on January 10th 2025

Panel	MgO Excess Factor
1	1.873
2	2.186
3	1.998
4	1.583
5	1.626
6	1.481
7	1.426
8	1.308

For records purposes its best if these figures could be summarized in a reply to this email, or in an attachment to an reply to this chain. Please let me know if there is any additional information I can provide.

If you are no longer the best point of contact to obtain this information please let me know who I should reach out to instead.

Thank you so much for your time,

Best,
Isaac

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From the amended Permit dated 1/20/2019:

1.5.21. TRU Mixed Waste RCRA Volume
"TRU Mixed Waste RCRA Volume (**TRU Mixed Waste Volume**)" means the gross internal volume of the outermost disposal container of TRU mixed waste pursuant to waste volumes in this Permit. For purposes of this Permit, all TRU waste is managed as though it were mixed. This volume is tracked and reported by the Permittees relative to the authorized maximum capacities in Permit Part 4, Table 4.1.1.

1.5.22. Land Withdrawal Act TRU Waste Volume
"Land Withdrawal Act TRU Waste Volume (**LWA TRU Waste Volume**)" means the volume of TRU waste inside a disposal container. This volume is tracked and reported by the DOE internally relative to the WIPP Land Withdrawal Act total capacity limit of 6.2 million ft3 (175,564 m3) (Pub. L. 102-579, as amended). For informational purposes, the LWA TRU Waste Volume is included in Table 4.1.1.

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