

From: Kouba, Steve - WRES <Steve.Kouba@wipp.ws>
Sent: Tuesday, October 08, 2013 6:35 AM
To: 'Brush, Laurence H' <lhbrush@sandia.gov>
Cc: Toothman, Mindy - RES <Mindy.Toothman@wipp.ws>
Subject: RE: [EXTERNAL] MgO Excess Factor as of December 31, 2012

Larry

Attached is the response I got from WDS based on your request. Let me know if this meets your needs or if you need additional information.

Steve

Steve Kouba
Nuclear Waste Partnership LLC
Regulatory Environmental Services
Contractor to the Department of Energy
4021 National Parks Hwy - MS GSA-109
Carlsbad, NM 88220
steve.kouba@wipp.ws
575 234-7443
575 302-3242 (Cell)

From: Brush, Laurence H [<mailto:lhbrush@sandia.gov>]
Sent: Monday, October 07, 2013 1:53 PM
To: Kouba, Steve - WRES
Cc: Chavez, Art V. - RES
Subject: RE: [EXTERNAL] MgO Excess Factor as of December 31, 2012

Thanks, Steve!

I appreciate your help as always, but I need more information. The information that needs to be 'backdated' to December 31, 2012, from Appendix MgO-2014, Subsection MgO-2.1.4, lines 39-43, is as follows:

"As of March 19, 2013, the DOE had emplaced 85,313 m³ of CH-TRU waste in 17,186 stacks, and 316 m³ of remote-handled transuranic (RH-TRU) waste in 631 boreholes in the repository. As of the same date, the DOE had emplaced 12,550 25-lb minisacks, 3,863 3,000-lb sacks, 71 4,100-lb supersacks, and 13,777 4,200-lb supersacks, and 142 racks. The overall MgO excess factor (see MgO-6.0) as of March 19, 2013, was 1.809 (Kouba 2013)."

Could you please have Steve Offner provide the rest of this information as of December 31, 2012?

I will ask the tech editor to update the Table of Contents by adding Subsection MgO-2.1.4 when I resubmit the revised, consolidated DRR.

Also, I just noticed that in Subsection MgO-3.1, Batchelder 2013 updated the information on the MgO reactivity test through FY 2012, not CY 2012 as you are doing. Could you please ask him to change this through December 31, 2012, as well?

Thank you very much in advance!

Larry Brush
505 844 4029
lhbrush@sandia.gov

Also, I noticed that

From: Kouba, Steve - WRES [<mailto:Steve.Kouba@wipp.ws>]
Sent: Monday, October 07, 2013 1:23 PM
To: Brush, Laurence H
Cc: Toothman, Mindy - RES
Subject: [EXTERNAL] MgO Excess Factor as of December 31, 2012

Larry

This is information I owe you as a result of the last POC review.

Call me if you have questions.

Steve

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From: Offner, Steve - NWP
Sent: Monday, October 07, 2013 12:55 PM
To: Kouba, Steve - WRES
Subject: RE: Request for MgO Excess Factor

[As requested...](#)

As of 12/31/2012:

Panel	MgO Excess Factor
1	1.873
2	2.186
3	1.998
4	1.583
5	1.626
6	1.564

Total:	1.810

[Let me know if you need anything else.](#)

Steve Offner

Government Contractor

WWIS/WDS Database Administrator

offners@wipp.ws

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575-200-5326 (cell)

From: Kouba, Steve - WRES

Sent: Monday, October 07, 2013 8:33 AM

To: Offner, Steve - NWP

Cc: Toothman, Mindy - RES; 'Brush, Laurence H'

Subject: Request for MgO Excess Factor

Steve,

I need a WDS report run that gives the MgO excess factor for the entire repository as of December 31, 2012.

Thank you.

Steve Kouba

Nuclear Waste Partnership LLC

Regulatory Environmental Services

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Panel: (null) Date: 12/31/12

Panel	Room	CH Waste & MgO Rows	CH Waste Stacks	CH Waste Volume (m3)	RH Bore Holes	RH Waste Volume (m3)	First Disposal	Most Recent Disposal	MgO 25-lb Sacks	MgO 3000-lb Sacks	MgO 4100-lb Sacks	MgO 4200-lb Sacks	MgO Stacks (BRTs)	MgO Excess Factor
1	7	173	519	2,315.58			26-MAR-99	23-AUG-01	12,528		71	448		2.007
	6	39	117	512.66			24-AUG-01	12-NOV-01				117		1.438
	5	39	117	504.95			14-NOV-01	16-JAN-02				117		1.562
	4	40	120	521.64			18-JAN-02	26-FEB-02				120		1.509
	3	181	543	2,360.34			01-MAR-02	17-JUL-02				543		1.670
	2	180	540	2,582.47			19-JUL-02	21-NOV-02	11			540		2.169
	1	108	324	1,699.01			26-NOV-02	12-MAR-03				324		2.138
	Panel Totals:		760	2,280	10,496.65			26-MAR-99	12-MAR-03	12,539		71	2,209	
2	7	180	540	2,935.95			13-MAR-03	16-JUL-03				540		2.086
	6	172	516	2,845.00			17-JUL-03	12-NOV-03				516		2.204
	5	173	519	2,903.47			13-NOV-03	04-APR-04	11			519		2.284
	4	171	513	2,880.43			06-APR-04	16-JUL-04				513		2.171
	3	180	540	2,920.31			17-JUL-04	12-NOV-04				540		2.270
	2	169	507	2,657.47			13-NOV-04	06-APR-05				507		2.623
	1	81	213	855.04			07-APR-05	15-OCT-05				363	30	1.707
Panel Totals:		1,126	3,348	17,997.67			13-MAR-03	15-OCT-05	11			3,498	30	2.186
3	7	168	504	2,574.31			27-APR-05	21-AUG-05				504		3.832
	6	167	501	2,713.51			24-AUG-05	14-DEC-05				501		1.931
	5	147	417	2,160.92			14-DEC-05	27-FEB-06				537	24	1.697
	4	164	489	2,562.38			01-MAR-06	05-JUN-06				504	3	1.786
	3	163	489	2,651.23			05-JUN-06	29-AUG-06				489		1.894
	2	165	495	2,735.93			30-AUG-06	16-NOV-06				495		2.023
	1	112	333	1,693.78			16-NOV-06	15-FEB-07				348	3	1.757
Panel Totals:		1,086	3,228	17,092.06			27-APR-05	15-FEB-07				3,378	30	1.998
4	7	165	495	2,621.39			16-FEB-07	14-MAY-07				495		1.901
	6	158	471	2,335.87	10	3.30	28-JAN-07	17-OCT-07				486	3	1.714
	5	166	498	2,437.23	28	11.14	03-APR-07	17-FEB-08				498		1.712
	4	153	436	2,049.10	61	20.33	27-JUN-07	18-MAY-08				551	23	1.756
	3	143	398	1,830.81	39	18.57	07-JAN-08	08-OCT-08				533	27	1.701
	2	151	444	1,844.80	34	19.22	29-APR-08	12-MAR-09				489	9	1.216
	1	97	276	1,138.34	26	11.68	02-OCT-08	14-MAY-09				351	15	1.229
	Panel Totals:		1,033	3,018	14,257.54	198	84.24	28-JAN-07	14-MAY-09				3,403	77
5	7	160	477	2,061.39	20	11.10	06-MAR-09	24-AUG-09				492	3	1.283
	6	157	471	2,139.63	28	22.32	13-MAY-09	13-NOV-09				431		2.853
	5	173	519	2,209.98	41	22.29	28-JUL-09	13-APR-10			40	140		1.242
	4	167	501	2,541.65	36	21.66	23-OCT-09	19-JUL-10			379	399		1.636
	3	175	525	2,718.18	45	25.53	02-MAR-10	02-NOV-10				525		1.613
	2	179	537	2,610.49	49	28.45	18-JUN-10	03-MAY-11				537		1.839
	1	119	357	1,645.61	45	22.02	15-OCT-10	07-JUL-11				357		1.747
Panel Totals:		1,130	3,387	15,926.93	264	153.37	06-MAR-09	07-JUL-11			2,237	1,165	3	1.626
6	7	183	547	2,726.61	33	14.07	24-MAR-11	30-OCT-11				547		2.109
	6	167	490	2,320.40	18	7.42	07-JUL-11	22-APR-12				490		1.743
	5	150	422	2,152.73	22	10.72	05-OCT-11	29-AUG-12				301	2	1.236
	4	142	376	1,864.64	25	12.70	10-JAN-12	22-DEC-12				222	89	1.250
	3	6	12	57.33	25	14.25	11-JUL-12	27-DEC-12				10		.938
	2				35	12.91	13-SEP-12	27-DEC-12						
	1													
Panel Totals:		648	1,847	9,121.72	158	72.07	24-MAR-11	27-DEC-12			1,570	123	2	1.564
Grand Totals:		5,783	17,108	84,892.57	620	309.68	26-MAR-99	27-DEC-12	12,550	3,807	71	13,776	142	1.810