

From: Steven Orth ²³
To: Larry Haskell
Date: Tue, Jan 24, 2006 3:23 PM
Subject: Re: Braidwood Tritium Sampling

Larry,

We have compiled the attached comparisons of NRC results to the licensee's results. We still have a number of results that we have not received from our contract laboratory.

Our initial data review indicates generally very good agreement between the laboratories. As I discussed with Rich Allen yesterday, a few results have a greater difference than I expected, but were still within a reasonable variance. In some cases, we have asked our laboratory to recount the samples.

Since this information is part of an ongoing NRC inspection, we request that you use the attached information for internal use/review only. We plan to issue our results in an upcoming inspection report.

We are also very interested in your results and would appreciate a copy of your spreadsheet.

If you have any questions, please contact me via email or at 630/829-9827 or contact John Cassidy at 630/829-9667.

Steven Orth
US NRC Region III
Division of Reactor Safety

>>> "Haskell, Larry" <Haskell@iema.state.il.us> 01/24/06 10:04 AM >>>
Mr Orth:

My name is Larry Haskell and I am with the Illinois Emergency Management Agency, Division of Nuclear Safety. I am coordinating the State's receipt and analysis of samples from Exelon's special sampling efforts around the Braidwood station. I understand that you have a similar set of data, collected by the NRC. Would you be willing to swap data sets?

Exelon has been providing us with duplicates of all samples they collect and analyze. Currently I have received approximately 200 samples and our lab has provided me with results for half of these samples. All these samples are comprised of between 100 -1000 ml of water which is analyzed by liquid scintillation for tritium. Exelon staff members at Braidwood have provided me with their results from most of the 200 samples. If you would be interested in these results, please let me know. I would be most interested in any results of independent analyses that you have.

Larry Haskell
Illinois Emergency Management Agency
Division of Nuclear Safety
Haskell@iema.state.il.us
217.786.6760

CC: John Cassidy; R_Allen@iema.state.il.us; Roland Lickus

Information in this record was deleted
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Act, exemptions 6
F.J.A. 2006-14

G-113

Sample Designation	Sample ID	Collection Date	NRC Split Sample Results			Notes
			pCi/L	Results (pCi/L)	NRC Sample ID	
P-1	GW-120105-DS-P-1	12-01-05	2484	2930±330	NRC-1-R3	
P-4	GW-120105-DS-P-4	12-01-05	33041	33630±810	NRC-2-R3	
P-5	GW-120105-DS-P-5	12-01-05	6621	6820±410	NRC-3-R3	
P-8	GW-120105-DS-P-6	12-01-05	450	190±270	NRC-4-R3	
P-7	GW-120105-DS-P-7	12-01-05	1210	1200±290	NRC-5-R3	
P-8	GW-120105-DS-P-8	12-01-05	2998	2720±330	NRC-6-R3	
RW-1	Split from GW-120105-JL-RW-1	12-01-05	2050	2650±330	NRC-7-R3	
RW-2	GW-120105-JL-RW-2	12-01-05	33738	34760±820	NRC-8-R3	
BL-17	GW-120105-DS-BL-17	12-01-05	25	240±120	NRC-9-R3	
BL-18	GW-120105-DS-BL-18	12-01-05	108	150±120	NRC-10-R3	
BL-19	GW-120105-DS-BL-19	12-01-05	37	300±120	NRC-11-R3	
PW-9	Finks Well	12-05-05	142	-340±120	NRC-12-R3	Well collected 12/5
PW-11	Gonis Well	12-05-05	99	100±120	NRC-13-R3	Well (250ml bottle) collected 12/5
PW-4	GW-120205-██████████	12-02-05	43	200±120	NRC-14-R3	collected 12/2 2:35 pm
SW-4	██████████ Lake (S.E. corner of western Lake	12-02-05	83	210±120	NRC-15-R3	██████████ Lake collected 12/3 2:00 pm SW-4
PW-8	██████████ Well	12-03-05	1151	1490±140	NRC-16-R3	Well collected 12/3 1:28 pm
D-3	GW-120205-MK-D-3	12-02-05	137	-60±270	NRC-17-R3	
RW-3	GW-120205-JL-RW-3	12-02-05	197	140±280	NRC-18-R3	
RW-4	GW-120205-JL-RW-4	12-02-05	380	420±270	NRC-19-R3	
P-2	GW-120205-MK-P-2	12-02-05	4344	2750±340	NRC-20-R3	
P-3	GW-120205-MK-P-3	12-02-05	3258	2470±320	NRC-21-R3	
VB3-7	GW-120205-MK-VB-3-7	12-02-05	169	-90±270	NRC-22-R3	
VB3-8	GW-120205-MK-VB-3-8	12-02-05	171	110±280	NRC-23-R3	
PW-1	██████████ Well	11-30-05	-26	200±120	NRC-24-R3	
PW-2	██████████ Well	11-30-05	48	180±120	NRC-25-R3	██████████ Well (BQWW-6691)
PW-3	██████████ Well	11-30-05	25	-250±120	NRC-26-R3	(#4 on cap) collected 11/30 500ml bottle

PW-8	Well	12-06-05	1524	1020±130	NRC-27-R3	Well collected 12/6			
SW-1	Lake #1 (S.W. corner of Eastern Lake)	11-30-05	2464	2480±210	NRC-28-R3	Lake #1 (BDWW-6688) (#1 on cap) collected 11/30 SW-3			
SW-2	Lake #2 (S.E. corner of Eastern Lake)	11-30-05	2347	2490±190	NRC-29-R3	Lake #2 (BDWW-6689) (#2 on cap) collected 11/30 SW-4			
G-1	GW-120605-JL-G-1	12-06-05	133	290±270	NRC-30-R3				
G-2	GW-120605-JL-G-2	12-06-05	87	230±270	NRC-31-R3				
G-3	GW-120605-JL-G-3	12-06-05	81	140±270	NRC-32-R3				
P-9	GW-120505-JL-P-9	12-05-05	1346	-40±270	NRC-33-R3				
P-10	GW-120505-JL-P-10	12-05-05	1934	2120±330	NRC-34-R3				
P-11	GW-120505-JL-P-11	12-05-05	1681	1770±320	NRC-35-R3				
P-12	GW-120505-JL-P-12	12-05-05	1535	1400±310	NRC-36-R3				
S-1	GW-120505-JL-S-1	12-05-05	-21	-70±270	NRC-37-R3				
S-2	GW-120505-JL-S-2	12-05-05	95	110±280	NRC-38-R3				
S-3	GW-120505-JL-S-3	12-05-05	145	140±280	NRC-39-R3				
S-4	GW-120505-JL-S-4	12-05-05	1280	1230±300	NRC-40-R3				
S-5	GW-120505-JL-S-5	12-05-05	2023	2190±330	NRC-41-R3				
S-6	GW-120505-JL-S-6	12-05-05	679	490±290	NRC-42-R3				
D-4	GW-120605-JRB-D-4	12-06-05	91	-30±260	NRC-43-R3				
D-2	GW-120505-JRB-D-2	12-05-05	125	-40±270	NRC-44-R3				
P-4	GW-120605-JL-P-4	12-06-05	25311	30020±770	NRC-45-R3				
P-8	GW-120605-JL-P-8	12-06-05	2212	2500±340	NRC-46-R3				
VB2-6	GW-120505-JRB-VB2-6	12-05-05	2348	1640±320	NRC-47-R3	GW-120505-JRB-VB2-6 collected 12/5 3:00 pm			
VB3-4	GW-120505-JRB-VB3-4	12-05-05	43708	42580±920	NRC-48-R3	GW-120505-JRB-VB3-4 collected 12/5 2:25 pm			
MW-113	GW-120505-JRB-MW-113	12-05-05	3598	3840±370	NRC-49-R3	GW-120505-JRB-MW-113 BD-VB3-4 (Special Well) 1 qt/1L cubitainer collected 11/30 3:00 pm			
	Unknown			39400±880	NRC-50-R3				
D-5	GW-120205-MK-D-5	12-02-05	73	280±270	NRC-51-R3				
	NRC Sample ONLY			280±120	NRC-52-R3				
	NRC Sample ONLY			210±120	NRC-53-R3				
	NRC Sample ONLY			150±120	NRC-54-R3				
PW-5	Well	12-07-05	9	310±120	NRC-55-R3	Well collected 12/7			
PW-10	Well	12-07-05	72	210±120	NRC-56-R3	Well collected 12/7			

EX6

PW-12	[REDACTED] Well	12-07-05	44	190±120	NRC-57-R3	[REDACTED] well collected 12/7			
PW-7	[REDACTED] Well	12-07-05	-58	170±120	NRC-58-R3	[REDACTED] well collected 12/7			
PW-13	[REDACTED] Well	12-07-05	-62	100±120	NRC-59-R3	[REDACTED] well collected 12/7			
VB3-4D	GW-121405-JS-VB-3-4D	12-14-05	747	910±130	NRC-60-R3				
VB3-9D	GW-121305-JS-VB3-9D	12-13-05	21715	21720±350	NRC-61-R3				
MW-113D	GW-121405-JL-MW-113D	12-14-05	4835	4810±170	NRC-62-R3				
P-2D	GW-121205-JL-P-2D	12-12-05	2599	2480±150	NRC-63-R3				
RW-2@10'	GW-121305-JL-RW2@10'	12-13-05	54111	55920±690	NRC-64-R3				
RW-2@20'	GW-121305-JL-RW2@20'	12-13-05	171166	160400±1700	NRC-65-R3				
RW-2@25'	GW-121305-JL-RW2@25'	12-13-05	246442	281800±2900	NRC-66-R3				
	NRC Sample ONLY	12-27-05		1310±140	NRC-67-R3	[REDACTED] Well			
	NRC Sample ONLY	12-08-05		-30±120	NRC-88-R3	[REDACTED] St. Braidwood Pond			
	NRC Sample ONLY	12-08-05		1360±140	NRC-69-R3	[REDACTED] Well			

End

1. Yet another spreadsheet format from the licensee
2. Added 3 columns for NRC info
3. Compared "old" spreadsheet to current to align samples
4. Noted some sample changes
 - "Old SW-4" is now SW-2 (Sample # 43)
 - "Old SW-3" is now SW-1 (Sample # 42)
5. Noted some "oddities"
 - Sample ID GW-120505-JRB-VB2-6 is listed twice with 2 different results
 - Sample ID GW-120505-JRB-VB3-4 is listed twice with 2 different results
 - Sample ID GW-120505-JRB-MW-113 is listed twice with 2 different results OR (MULL) is a new sample
 - Column 1 has 160 wells! Although this is another "calculated" field and does not work with sorts See 1
6. Entered NRC Sample Information
7. Created new Column "Sample #"
8. Copied the "Column #" with Paste Special - Values to assign numbers permanent (not equation)
9. Deleted the Column "Sample #" that contained equation
10. Created new Column "Well #"
11. Copied the "Well #" with Paste Special - Values to assign numbers permanent (not equation)
12. Deleted the Column "Well #" that contained equation
13. Added the new NRC Sample numbers as assigned by Gene B.
14. NOTE some columns are hidden
15. Changed name of spreadsheet from Lab Report Summary_1.xls to keep existing pointer(s) valid