Page 1

From:	"Bowman, Greg " <gbowm90@entergy.com></gbowm90@entergy.com>
То:	"'sms4@nrc.gov'" <sms4@nrc.gov></sms4@nrc.gov>
Date:	3/15/06 8:28AM
Subject:	FW: Tritium results Reanalysis of Trap Rock, Algonquin, Gypsum

From: Lavera, Ron Sent: Friday, February 03, 2006 12:21 PM To: Bowman, Greg Subject: FW: Tritium results Reanalysis of Trap Rock, Algonquin, Gypsum

> RLaVera@entergy.com <mailto:RLaVera@entergy.com> 914-736-8433 914-736-8419 FAX Indian Point 3 Entergy Nuclear Northeast Entergy Nuclear Operations, Inc. Indian Point Energy Center 295 Broadway, Suite 3 P.O. Box 308 Buchanan, NY 10511-0308

From: Gorman, Barrie Sent: Friday, February 03, 2006 11:54 AM To: Burns, Thomas; Lavera, Ron; Mayer, Don; Sachatello, Ronald Cc: Axelson, William L; Baker, Dave; Pittenger, William; Boucher, Crystal; Colville, Richard; Mayer, Don Subject: Tritium results Reanalysis of Trap Rock, Algonquin, Gypsum

Attached are the subject sample reanalysis. All 3 sample results were less that LLD. These sample results represent a new aliquot of each sample from the original container that was distilled and counted in a new sample vial.

The original results for these samples, which were reported as positive activity (>LLD), are considered to be the result of contamination on the tritium analyzer sample holder rack. Additional testing and evaluation is in progress to confirm the contamination and documentation will be provided for your review. The racks have been removed from service and immediate short term corrective actions were set in place to prevent future contamination issues.

The contamination of these samples will be documented in a JAF Condition Report (CR) that I will forward to you as soon as the CR is entered.

Sample status: Currently in the tritium counter are the three original vials followed by the 4 samples received on 02/02/06. These samples will be done counting on Saturday night and the results will be processed and forwarded to you on Monday AM (02/06/06).

I will be at VY next week attending Entergy training. I will be in contact with the lab on a regular basis and will provide you with a channel of communication once I set up at VY. Barrie

<<IPEC tritium reanalysis.PDF>>

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**Mail Envelope Properties** (4418167A.025 : 24 : 57381)

Subject:FW: Tritium results Reanalysis of Trap Rock, Algonquin, GypsumCreation Date:3/15/06 8:26AMFrom:"Bowman, Greg " <GBowm90@entergy.com>

**Created By:** 

GBowm90@entergy.com

Recipients nrc.gov kp1\_po.KP\_DO SMS4 (Stacy Smith)

Post Office kp1\_po.KP\_DO Route nrc.gov

Size
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Options	
Expiration Date:	None
Priority:	Standard
<b>Reply Requested:</b>	No
<b>Return Notification:</b>	None

Concealed Subject:	No
Security:	Standard

## Date & Time 03/15/06 08:26AM

Run No	06-11	Plant Eff.		Environme	ntal 🔀	Other [		Sample	Count Date	2/1/2006	i
Backgrou Backgrou	Ind Count Time(min.) Ind Counting Eff.	100 0.353		Backę Backę	ground (CPM) ground (DPM)	9.58 27.17	-				
2-5	QC STD	3/14/2002	12:00	NA	E3050	100	34.94	71.80	0.353	10062 ± 2	265
22-2	ALGONQUIN OUTFALL	1/24/2006	12:00	20060275B	IP-06-044	100	10.68	1.36	0.374	<469	
22-3	GYPSUM PLANT STREAM	1/24/2006	12:00	20060276B	IP-06-045	100	10.39	1.88	0.358	<469	
22-4	TRAP ROCK QUARRY	1/24/2006	12:00	20060277B	IP-06-046	100	11.07	2.65	0.371	<469	
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Completed By:

DJ BAKER Date: Z-3-06

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JAF ENVIRONMENTAL LABORATORY							
Tr	itium Activ	vity	Calculatio	<u>n</u>			
Sample ID	QC STD			ELMS #:	NA		
Sample On Date / Time :	03/14/02	e	12:00	Cilent ID No.	E3050		
Sample Off Date / Time :	03/14/02	•	12:00	Run No.	06-11		
Sample Count Date:	02/01/06	0	12:00	Sample Distilled:	NO		
Elapsed Time (count date to off date) yrs	3.89			Decay Factor:	0.8036		
				ala sanger	، دائر : : 		
Background Gross counts:	958.22						
Background count time (minutes)	100						
Background Counts, CPM:	9.58						
Background DPM	27.17						
Critical Level (CL) CPM	0,72						
		·					
Sample Gross counts:	3493.6667						
Sample Count Time (minutes)							
Sample CPM:	34.94						
Sample Net CPM:	25.35						
Sample DPM:							
sample volume (L)	0.004						
Background Counting Efficiency	0.353			CL Ratio=	35.21		
LLD value (pCi/L)	<583			Act/Error Ratio=	38.0 -		
Sample Counting Efficiency	0.353						
Sample Activity (pCi/L) ± 1 sigma	10062	±	265	>			
		2.44			i i i i i i i i i i i i i i i i i i i		
Comments: QC, KATTO =	100.	5-10	Tope	KNAUH.			
Note: If CL ratio is <1.0 OR Act/Error Ratio is	s <2.7 than the	LLD	value is reporte	ed as a "Less Than" A	ctivity.		
Technician: P.J. BAKER (Ng/St Date: 2-3-06							
<u>کر</u>	print mign			1_	1.		
Supervisor review: <u>B. Gorman</u>	· / +0a	m		Date: 3/3	100		
L	print / sign		p:\tritium	program/tritium activ	ity calc.xlt		

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JAF ENVIRONMENTAL LABORATORY							
Tr	itium Acti	vity C	alculatio	n			
Sample ID ALGONQUIN OUTFALL ELMS #: 20060275B							
Sample On Date / Time :	01/24/06	e _	12:00	Client ID No.	IP-06-044		
Sample Off Date / Time :	01/24/06	• _	12:00	Run No.	06-11		
Sample Count Date:	02/01/06	•	12:00	Sample Distilled:	YES		
Elapsed Time (count date to off date) yrs	0.02			Decay Factor:	0.9988		
				· · · ·	<u> </u>		
Background Gross counts:	958.22						
Background count time (minutes)	100						
Background Counts, CPM:	9.58						
Background DPM	27.17						
Critical Level (CL) CPM	0.72						
Sample Gross counts:	1067.6667						
Sample Count Time (minutes)	100						
Sample CPM:	10.68						
Sample Net CPM:	1.09						
Sample DPM:	1.36						
sample volume (L)	0.004						
		· · · ·					
Background Counting Efficiency	0.353			CL Ratio=	1.52		
LLD value (pCi/L)	<469	>		Act/Error Ratio=	1.1 -		
			:				
Sample Counting Efficiency	0.374						
Sample Activity (pCi/L) ± 1 sigma	153	±	136	· <u>·</u> ·····			
					i di secondo de la composición de la co		
Comments:		,					
				•			
· · · · · · · · · · · · · · · · · · ·							
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 than the LLD value is reported as a "Less Than" Activity.							
Technician: DJBAKER CHART Date: 2-3-06							
Supervisor review: <u>B. Gorman</u> B.	prest / sign	nan		Date: 20	<u>31</u> 02		
	print / sign						

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JAF ENVIRONMENTAL LABORATORY							
Tr	itium Acti	vity	Calculatio	n			
Sample ID GYPSUM PLANT STREAM ELMS #: 20060276B							
Sample On Date / Time :	01/24/06	01/24/06 <b>c</b> 12:00 C		Client ID No.	IP-06-045		
Sample Off Date / Time :	01/24/06	•	12:00	Run No.	06-11		
Sample Count Date:	02/01/06	•	12:00	Sample Distilled:	YES		
Elapsed Time (count date to off date) yrs	0.02			Decay Factor:	0.9988		
Background Gross counts:	958.22						
Background count time (minutes)	100						
Background Counts, CPM:	9.58						
Background DPM	27.17						
Critical Level (CL) CPM	0.72	ه د درد ه					
		···· · · · · · · · · · · · · · · · · ·			in the second se		
Sample Gross counts:	1038.6667						
Sample Count Time (minutes)	100						
Sample CPM:	10.39	•					
Sample Net CPM:	0.80						
Sample DPM:	1.88						
sample volume (L)	0.004						
Background Counting Efficiency	0.353			CL Ratio=	1.12		
LLD value (pCi/L)	<469	$\geq$		Act/Error Ratio=	1.5		
		_		n an the second s			
Sample Counting Efficiency	0.358						
Sample Activity (pCi/L) ± 1 sigma	212	±	141				
		· ·					
Comments:			······				
······			· · · · ·				
Note: If CL ratio is <1.0 OR Act/Error Ratio is <2.7 than the LLD value is reported as a "Less Than" Activity.							
Technician: D.J. BAKEP	PS			Date: Z-3	:-06		
Supervisor review: <u>B. Gorman</u>	print sign	LN	<u> </u>	<u>Date: 40</u>	<u>3/</u> ae.		
L	print / sign						

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JAF ENVIRONMENTAL LABORATORY							
Tr	itium Acti	vity C	aiculatio	on			
Sample ID TRAP ROCK QUARRY ELMS #: 200602771							
Sample On Date / Time :	01/24/06 e 12:00		Client ID No.	IP-06-046			
Sample Off Date / Time :	01/24/06		12:00	Run No.	06-11		
Sample Count Date:	02/01/06	•	12:00	Sample Distilled:	YES		
Elapsed Time (count date to off date) yrs	0.02			Decay Factor:	0.9988		
Background Gross counts:	958.22						
Background count time (minutes)	100						
Background Counts, CPM:	9.58						
Background DPM	27.17						
Critical Level (CL) CPM	0.72			en esta comprehensi en altra			
					· · · · · · · · · · · · · · · · · · ·		
Sample Gross counts:	1107.3333						
Sample Count Time (minutes)	100						
Sample CPM:	11.07						
Sample Net CPM:	1.49						
Sample DPM:	2.65						
sample volume (L)	0.004	1					
	2000 - 100 -						
Background Counting Efficiency	0.353			CL. Ratio=	2.07		
LLD value (pCi/L)	<469	>		Act/Error Ratio=	2.2		
				аланан аларын аларын <u>аларын аларын алары</u>			
Sample Counting Efficiency	0.371						
Sample Activity (pCl/L) $\pm 1$ sigma	299	±	138				
	and the second se						
Comments:							
		· · ·					
Technician: DJ BAKER Lyster Date: 2-3-06							
	purt / sign			,			
Supervisor review: <u>B. Gorman Ø.</u>	/ Smin	nar	/	<u>Date: 2/0</u>	3/the		
L	print / sign						