J. Noggle (R1)

From: "Sandike, Steven" <SSandik@entergy.com>
To: <JDN@nrc.gov>
Date: 11/21/05 8:11PM
Subject: Correction to 2004 SFDS data sheet and some H-3 data

Jim....

> Sorry> ...> I found a typo in July 2004 SFDS H-3 (high by *10> ...> . Which you may have already noticed at 8E-6). Even an eyeball average says that's not right> ...> . July 2004 was entered as 8.25E-5 uCi/ml when it was 8.25E-6.
>
> (Thanks to the distillate tanks being 10,000 times higher than this,
> it does not effect the annual report. The database is corrected.)
>
> Here is a corrected annual summary of just the SFDS for 2004.
> (The correct concentration is close to what you used, Dennis.)
>
> > <<sfds4.txt>>
>

Also... here is some H-3 data, hard copies of which I gave you today....

<<NCD-SFDS-00-03.xls>> <<ncd4.txt>> <<fracs4.txt>>

And this is 2005 to date info. It shows a healthy source term in the RCS and RWST. Also shows a sharp increase in U1 West SFP H-3 activity as a result of the work going on in Sep and Oct.

<<U2H3-2005-sources.xls>>

> Steve Sandike
> Effluents / RMS
> ENN Indian Point Energy Center
> Buchanan, NY 10511-0308
> phone: 914-736-8455
> fax: 914-734-6010
> email: ssandik@entergy.com
>
>

A/21

RETDAS v3.6.0 <IP2> VSSI

LIQUID RELEASE AND DOSE SUMMARY REPORT
---------- (PERMIT BASIS) ----------

Release ID.....: 11 Sphere Found Drain Sump
Period Start Date.....: 01/01/2004 00:00
Period End Date.....: 01/01/2005 00:00
Period Duration (mins): 5.270E+05

=== RELEASE DATA ==========

Total Release Duration (minutes)..... 5.270E+05
Total Undiluted Volume Released (gallons)..... 1.268E+07
Average Undiluted Flowrate (gpm)..... 2.406E+01

Total Dilution Volume (gallons)..... 1.044E+12
Average Dilution Flowrate (gpm)..... 1.981E+06

=== NUCLIDE DATA ==========

		|----Undiluted-----|		|-----Diluted------|	
Nuclide	uCi	Average uCi/ml	Percent of 10*EC	Average uCi/ml	Percent of 10*EC
H-3	1.75E+05	3.64E-06	3.64E-02	4.42E-11	4.42E-07
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	1.23E+03	2.56E-08	2.56E-03	3.11E-13	3.11E-08
SR-89	2.35E+02	4.89E-09	6.11E-03	5.93E-14	7.42E-08
SR-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Beta	1.76E+05	3.67E-06	4.51E-02	4.46E-11	5.47E-07
Total	1.76E+05	3.67E-06	4.51E-02	4.46E-11	5.47E-07

=== PERMIT ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ==========

Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
				TOTALS				
ADULT	2.98E-05	1.90E-06	2.19E-08	2.19E-08	2.19E-08	8.43E-07	0.00E+00	1.01E-06
TEEN	3.11E-05	2.00E-06	1.68E-08	1.68E-08	1.68E-08	6.79E-07	0.00E+00	1.05E-06
CHILD	4.12E-05	2.02E-06	1.40E-08	1.40E-08	1.40E-08	2.95E-07	0.00E+00	1.40E-06

Verified By: _____ Date: _____

FRAC	(NCD)								
		/----------uCi/ml----------\							
Date	Volume (gal)	H3	FE55	SR90	CS137	Co60	Ni63	SR89	comments
01/05/00	1.81E+04	2.26E-05	8.00E-07	5.40E-07	4.20E-05				
01/09/00	1.49E+04	2.26E-05	8.00E-07	5.40E-07	4.08E-05				
01/14/00	1.87E+04	2.26E-05	8.00E-07	5.40E-07	3.85E-05				
02/24/00	1.94E+04	2.26E-05	8.00E-07	5.40E-07	3.82E-05	3.70E-08			
02/03/00	1.45E+04	2.38E-05		3.30E-07	3.47E-05				
02/17/00	1.51E+03	2.38E-05		3.30E-07	4.85E-05		2.90E-07		
02/17/00	1.62E+04	2.38E-05		3.30E-07	4.85E-05				
02/21/00	1.05E+02								dilute rcs
02/22/00	3.99E+02								
02/29/00	8.78E+03	2.38E-05		3.30E-07	4.78E-05				
03/04/00	1.81E+04	2.38E-05		3.30E-07	5.19E-05		2.90E-07		
03/08/00	1.82E+04	2.38E-05		3.30E-07	5.92E-05				
03/13/00	1.77E+04	2.38E-05		3.30E-07	6.90E-05		2.90E-07		
03/17/00	1.85E+04	2.38E-05		3.30E-07	5.91E-05		2.90E-07		
03/23/00	1.83E+04	2.38E-05		3.30E-07	5.39E-05		2.90E-07		
03/27/00	1.83E+04	2.38E-05		3.30E-07	6.27E-05		2.90E-07		
04/03/00	1.83E+04	1.28E-05		6.60E-07	5.83E-05		5.60E-06	1.80E-07	
04/11/00	1.78E+04	1.28E-05		6.60E-07	6.43E-05		5.60E-06	1.80E-07	
04/15/00	1.85E+04	1.28E-05		6.60E-07	4.93E-05		5.60E-06	1.80E-07	
04/19/00	1.81E+04	1.28E-05		6.60E-07	5.70E-05		5.60E-06	1.80E-07	
04/22/00	1.74E+04	1.28E-05		6.60E-07	5.47E-05		5.60E-06	1.80E-07	
04/26/00	1.82E+04	1.82E+04		6.60E-07	2.81E-05		5.60E-06	1.80E-07	
04/20/00	1.81E+04	1.28E-05		6.60E-07	3.60E-05		5.60E-06	1.80E-07	
05/05/00	1.79E+04	1.26E-05		6.60E-07	4.50E-05		5.60E-06		
05/11/00	1.83E+04	1.26E-05		6.60E-07	5.03E-05		5.60E-06		
05/15/00	1.40E+05	1.26E-05		6.60E-07	4.97E-05		5.60E-06		
05/19/00	1.84E+04	1.26E-05		6.60E-07	4.18E-05		5.60E-06		
05/26/00	1.83E+04	1.26E-05		6.60E-07	4.02E-05		5.60E-06		
05/31/00	1.80E+04	3.82E-06		4.90E-07	4.03E-05		8.70E-07		
06/07/00	1.83E+04	3.82E-06		4.90E-07	4.34E-05		8.70E-07		
06/10/05	1.41E+04	3.82E-06		4.90E-07	3.51E-05		8.70E-07		
06/14/00	1.40E+04	3.82E-06		4.90E-07	3.77E-05		8.70E-07		
06/18/00	1.83E+04	3.82E-06		4.90E-07	3.88E-05		8.70E-07		
06/22/00	1.82E+04	3.82E-06		4.70E-07	4.17E-05		8.70E-07		
06/27/00	1.86E+04	3.82E-06		4.90E-07	4.47E-05		8.70E-07		
07/08/00	1.35E+04	5.29E-06		4.90E-07	4.63E-05		8.70E-07		
07/13/00	1.83E+04	1.83E+04		4.90E-07	5.18E-05		8.70E-07		
07/27/05	1.32E+04				4.15E-05				
07/31/05	1.77E+04	5.29E-06			3.24E-05				
08/03/00	1.78E+04	4.91E-06		3.10E-07	3.41E-05		5.00E-07		
08/08/00	1.65E+04	4.91E-06		3.10E-07	3.74E-05		5.00E-07		
08/11/00	1.70E+04	4.91E-06		3.10E-07	4.34E-05		5.00E-07		
08/15/00	1.72E+04	4.91E-06		3.10E-07	4.11E-05		5.00E-07		
08/18/00	1.76E+04	4.91E-05		3.10E-07	4.13E-05		5.00E-07		
08/23/00	1.82E+04	4.91E-06		3.10E-07	4.51E-05		5.00E-07		
08/29/00	1.83E+04	4.91E-06		3.10E-07	4.05E-05		5.00E-07		
09/20/00	1.49E+04	4.91E-06		3.10E-07	4.96E-05		5.00E-07		
09/26/05	1.86E+04	4.91E-06		3.10E-07	3.36E-05		5.00E-07		
10/03/00	1.88E+04	4.27E-06		3.10E-07	2.95E-05		5.40E-07	7.20E-08	
10/09/00	1.84E+04	4.27E-06		3.10E-07	3.06E-05		5.70E-07	7.20E-08	
11/15/00	1.43E+04	6.14E-03		3.10E-07	3.11E-05		5.40E-07	7.20E-08	
11/20/00	1.79E+04	6.14E-03		3.10E-07	2.09E-05		5.40E-07	7.20E-08	

11/29/00	1.83E+04	6.14E-03	3.10E-07	2.03E-05		5.40E-07	7.20E-08	
12/03/00	6.80E+02	6.14E-03	3.10E-07	1.80E-05	3.88E-08	5.40E-07	7.20E-08	
12/06/00	1.94E+04	6.14E-03	3.10E-07	1.86E-05		5.40E-07	7.20E-08	
12/20/00	1.73E+04	6.14E-03	3.10E-07	3.11E-05		5.40E-07	7.20E-08	
12/29/00	1.73E+04	6.14E-03	3.10E-07	2.45E-05		5.40E-07	7.20E-08	
01/08/01	1.25E+04	3.65E-06	3.10E-07	3.28E-05		5.40E-07	7.20E-08	
01/11/01	1.86E+04	3.65E-06	3.10E-07	4.09E-05		5.40E-07	7.20E-08	
01/17/01	1.83E+04	3.65E-06	3.10E-07	3.69E-05		5.40E-07	7.20E-08	
01/24/01	1.77E+04	3.65E-06	3.10E-07	3.75E-05		5.40E-07	7.20E-08	
01/30/01	1.84E+04							See Steve for isotopes
02/02/01	1.74E+04	3.65E-06	3.10E-07	3.74E-05		5.40E-07	7.20E-08	
02/06/01	1.93E+04	3.65E-06	3.10E-07	4.52E-05		5.40E-07	7.20E-08	
02/10/01	1.82E+04	3.65E-06	3.10E-07	4.20E-05		5.40E-07	7.20E-08	
02/14/01	1.81E+04	3.65E-06	3.10E-07	3.96E-05		5.40E-07	7.20E-08	
02/17/01	1.76E+04	3.65E-06	3.10E-07	2.08E-05		5.40E-07	7.20E-08	
02/21/01	1.18E+03	3.65E-06	3.10E-07	3.44E-05		5.40E-07	7.20E-08	
02/26/01	1.54E+04	3.65E-06	3.10E-07	4.21E-05		5.40E-07	7.20E-08	
03/02/01	1.82E+04	3.06E-06	3.90E-07	4.23E-05		4.70E-07		
03/08/01	1.89E+04	3.06E-06	3.90E-07	5.24E-05		4.70E-07		
03/13/01	1.83E+04	3.06E-06	3.90E-07	3.46E-05		4.70E-07		
03/16/01	1.83E+04	3.06E-06	3.90E-07	2.93E-05		4.70E-07		
03/20/01	1.90E+04	3.06E-06	3.90E-07	3.62E-05		4.70E-07		
03/22/01	1.83E+04	3.06E-06	3.90E-07	4.32E-05		4.70E-07		
03/27/01	1.82E+04	3.06E-06	3.90E-07	3.59E-05		4.70E-07		
03/30/01	1.89E+04	3.06E-06	3.90E-07	3.98E-05		4.70E-07		
04/04/01	1.82E+04	2.42E-06	3.90E-07	2.34E-05		4.70E-07		
04/08/01	1.83E+04	2.42E-06	3.90E-07	3.00E-05		4.70E-07		
04/11/01	1.86E+04	2.42E-06	3.90E-07	3.71E-05		4.70E-07		
04/14/01	1.82E+04	2.42E-06	3.90E-07	2.74E-05		4.70E-07		
04/17/01	1.79E+04	2.42E-06	3.90E-07	3.16E-05		4.70E-07		
04/20/01	1.81E+04	2.42E-06	3.90E-07	3.46E-05		4.70E-07		
04/25/01	1.83E+04	2.42E-06	3.90E-07	3.80E-05		4.70E-07		
04/29/01	1.77E+04	2.42E-06	3.90E-07	4.06E-05		4.70E-07		
05/17/01	1.53E+04	2.42E-06		4.72E-05				
05/25/01	1.86E+04	2.42E-06		3.84E-05				
05/30/01	1.97E+04	2.42E-06	3.90E-07	2.56E-05		5.90E-07		
06/05/01	1.97E+04	2.42E-06	3.50E-07	2.91E-05		5.90E-07		
06/08/01	1.83E+04	2.42E-06	3.50E-07	2.65E-05		5.90E-07		
06/12/01	1.78E+04	2.42E-06	3.50E-07	2.80E-05		5.90E-07		
06/15/01	1.81E+04	2.42E-06	3.50E-05	2.80E-05		5.90E-07		
06/20/01	1.83E+04	2.42E-06	3.50E-07	2.68E-05		5.90E-07		
06/23/01	1.98E+04	2.42E-06	3.50E-07	2.44E-05		5.90E-07		
06/26/01	1.83E+04	2.42E-06	3.50E-07	1.88E-05		5.90E-07		
06/29/01	1.83E+04	2.42E-06	1.30E-07	2.04E-05				
07/03/01	1.83E+04	1.40E-06	3.20E-07	2.52E-05		5.10E-07		
07/06/01	1.84E+04	1.40E-06	3.20E-07	2.77E-05		5.10E-07		
07/13/01	1.88E+04	1.40E-06	3.20E-07	3.10E-05		5.10E-07		
07/17/01	1.85E+04	1.40E-06	3.20E-07	3.10E-05		5.10E-07		
07/21/01	1.83E+04	1.40E-06	3.20E-07	3.48E-05		5.10E-07		
07/24/01	1.64E+04	1.40E-06	3.20E-07	3.69E-05		5.10E-07		
07/29/01	1.83E+04	1.40E-06	3.20E-07	4.01E-05		5.10E-07		
08/07/01	1.34E+04	1.40E-06	2.50E-07	4.07E-05		5.00E-07		
08/12/01	1.50E+04	1.40E-06	2.50E-07	4.07E-05		5.00E-07		
08/17/01	1.34E+04	1.40E-06	2.50E-07	4.07E-05		5.00E-07		
08/30/01	1.83E+04	1.40E-06	2.50E-07	3.73E-05		5.00E-07		

09/15/01	1.77E+04	1.40E-06	2.50E-07	3.89E-05	5.00E-07	
09/19/01	1.83E+04	1.40E-06	2.50E-07	3.43E-05	5.00E-07	
09/25/01	1.83E+04	1.40E-06	2.50E-07	2.65E-05	5.00E-07	
09/28/01	1.83E+04	1.40E-06	2.50E-07	2.79E-05	5.00E-07	
10/02/01	1.82E+04	1.40E-06	2.50E-07	2.87E-05	5.00E-07	
10/07/01	1.86E+04	1.40E-06	2.50E-07	3.03E-05	5.00E-07	
10/17/01	1.86E+04	1.40E-06	2.50E-07	3.25E-05	5.00E-07	
12/19/01	1.85E+04	1.40E+00	2.50E-07	2.10E-05	5.00E-07	
01/02/02	1.81E+04	1.40E-06	2.50E-07	1.71E-05	5.00E-07	
01/11/02	1.83E+04	1.40E-06	2.50E-07	1.64E-05	5.00E-07	
02/01/02	1.85E+04	1.40E-06	2.50E-07	2.16E-05	5.00E-07	
02/22/02	1.78E+04	9.48E-06	2.50E-07	3.23E-05	5.00E-07	
03/11/02	1.90E+04	8.63E-06	2.50E-07	3.17E-05	5.00E-07	
03/01/02	1.67E+04	8.63E-06	2.50E-07	3.34E-05	5.00E-07	
03/28/02	1.92E+04	8.63E-06	2.50E-07	3.33E-05	5.00E-07	
04/05/02	1.75E+04	4.59E-06	4.10E-07	3.91E-05	7.40E-07	
04/15/02	1.34E+03	4.49E-06	4.10E-07	3.99E-05	7.40E-07	
04/15/02	1.34E+03	4.49E-06	4.10E-07	3.99E-05	7.40E-07	
04/25/02	1.41E+04	4.59E-06	4.10E-07	3.95E-05	7.40E-07	
05/01/02	1.54E+04	4.59E-06	4.40E-07	3.26E-05	3.00E-07	
05/07/02	1.62E+04	4.59E-06	4.40E-07	3.23E-05	3.00E-07	
05/13/02	1.86E+04	4.59E-06	4.40E-07	3.40E-05	3.00E-07	
05/17/02	5.59E+03	4.59E-06	4.40E-07	1.19E-05	3.00E-07	
05/21/02	1.53E+04	4.59E-06	4.40E-07	2.70E-05	3.00E-07	
05/24/02	1.30E+04	4.59E-06	4.40E-07	3.15E-05	3.00E-07	
06/03/02	1.71E+04	8.94E-05	4.40E-07	3.33E-05	3.00E-07	
06/08/02	1.41E+04	8.94E-05	4.40E-07	3.43E-05	3.00E-07	
06/13/02	1.33E+04	8.94E-05	4.40E-07	3.60E-05	3.00E-07	
06/28/02	1.76E+04	8.94E-05	4.40E-07	3.27E-05	3.00E-07	
07/11/02	1.63E+04	8.94E-05	4.40E-07	4.21E-05	3.00E-07	
07/19/02	1.39E+04	8.94E-05	4.40E-07	4.34E-05	3.00E-07	
07/30/02	1.42E+04	8.94E-05	4.40E-07	4.17E-05	3.00E-07	
08/08/02	1.66E+04	2.84E-06	1.67E-07	4.37E-05	4.23E-07	
08/22/02	1.71E+04	2.84E-06	1.67E-07	4.04E-05	4.23E-07	
08/31/02	9.24E+02	2.84E-06	1.67E-07	3.77E-05	4.23E-07	
09/09/02	1.41E+04	1.50E-05	3.16E-07	3.48E-05	5.43E-07	3.55E-07
09/14/02	1.48E+04	1.50E-05	3.16E-07	3.52E-05	5.43E-07	3.55E-07
09/21/02	1.58E+04	1.50E-05	3.16E-07	3.22E-05	5.43E-07	3.55E-07
10/04/02	1.49E+04	1.50E-05	3.16E-07	3.77E-05	5.43E-07	3.55E-07
10/09/02	1.52E+04	1.50E-05	3.16E-07	3.24E-05	5.43E-07	3.55E-07
10/16/02	1.83E+04	1.50E-05	3.16E-07	3.27E-05	5.43E-07	3.55E-07
10/22/02	1.80E+04	1.50E-05	3.16E-07	2.70E-05	5.43E-07	3.55E-07
10/25/02	1.67E+04	1.50E-05	3.16E-07	2.66E-05	5.43E-07	3.55E-07
10/29/02	1.83E+04	1.50E-05	3.16E-07	2.46E-05	5.43E-07	3.55E-07
11/02/02	1.76E+04	1.50E-05	3.16E-07	3.31E-05	5.43E-07	3.55E-07
11/07/02	1.83E+04	1.50E-05	3.16E-07	3.44E-05	5.43E-07	3.55E-07
11/15/02	1.64E+04	1.50E-05	3.16E-07	4.23E-05	5.43E-07	3.55E-07
11/21/02	1.76E+04	1.50E-05	3.16E-07	1.72E-05	5.43E-07	3.55E-07
11/24/02	1.80E+04	1.50E-05	3.16E-07	2.27E-05	5.43E-07	3.55E-07
11/27/02	1.86E+04	1.50E-05	3.16E-07	2.30E-05	5.43E-07	3.55E-07
12/04/05	1.75E+04	1.50E-05	3.16E-07	2.72E-05	5.43E-07	3.55E-07
12/15/02	1.65E+04	4.04E-06	3.16E-07	3.67E-05	5.43E-07	3.55E-07
12/20/02	1.78E+04	4.00E-06	3.16E-07	3.46E-05	5.43E-07	3.55E-07
12/28/02	1.83E+04	4.04E-06	3.16E-07	3.64E-05	5.43E-07	3.55E-07

01/02/03	1.73E+04	1.43E-05	2.17E-07	4.43E-05	2.96E-07	6.85E-08
01/06/03	1.83E+04	1.43E-05	2.17E-07	2.83E-05	2.96E-07	6.85E-08
01/08/03	1.90E+04	1.43E-05	2.17E-07	3.10E-05	2.96E-07	6.85E-08
01/10/03	1.43E+04	1.43E-05	2.17E-07	3.49E-05	2.96E-07	6.85E-08
01/13/02	1.53E+04	1.43E-05	2.17E-07	3.87E-05	2.96E-07	6.85E-08
01/15/02	1.62E+04	1.43E-05	2.17E-07	4.25E-05	2.96E-07	6.85E-08
01/17/02	1.67E+04	1.43E-05	2.17E-07	4.62E-05	2.96E-07	6.85E-08
01/21/02	1.50E+04	1.43E-05	2.17E-07	5.05E-05	2.96E-07	6.85E-08
02/02/03	1.73E+04	1.86E-05	2.48E-07	6.17E-05	1.62E-06	1.10E-07
02/24/03	1.82E+04	1.86E-05	2.48E-07	3.07E-05	1.62E-06	1.10E-07
02/27/03	1.83E+04	1.86E-05	2.48E-07	4.18E-06	1.62E-06	1.10E-07
03/03/03	1.83E+04	1.85E-06	1.59E-07	1.08E-06	7.51E-07	1.54E-07
03/05/03	1.25E+04	1.85E-06	1.59E-07	6.38E-07	7.51E-07	1.54E-07
03/08/03	1.81E+04	1.85E-06	1.59E-07	4.23E-07	7.51E-07	1.54E-07
03/12/03	1.83E+04	1.85E-06	1.59E-07	2.80E-07	7.51E-07	1.54E-07
03/18/03	1.82E+04	1.85E-06	1.59E-07	2.11E-07	7.51E-07	1.54E-07
03/24/03	1.83E+04	1.85E-06	1.59E-07	2.88E-07	7.51E-07	1.54E-07
03/28/04	1.48E+04	1.85E-06	1.59E-07	1.56E-07	7.51E-07	1.54E-07
03/31/03	1.83E+04	1.85E-06	1.59E-07	2.09E-07	7.51E-07	1.54E-07
04/03/03	1.76E+04	4.64E-06	1.45E-07	3.04E-07	7.14E-07	5.54E-08
04/08/03	1.82E+04	4.64E-06	1.45E-07	1.85E-07	7.14E-07	5.54E-08
04/10/03	1.81E+04	4.64E-06	1.45E-07	5.73E-08	7.14E-07	5.54E-08
04/14/03	1.94E+04	4.64E-06	1.45E-07		7.14E-07	5.54E-08
04/16/03	1.75E+04	4.64E-06	1.45E-07		7.14E-07	5.54E-08
04/23/03	1.73E+04	4.64E-06	1.45E-07	1.78E-07	7.14E-07	5.54E-08
05/01/03	1.83E+04	3.63E-06	1.47E-07	3.72E-07		
05/07/03	1.34E+04	3.63E-06	1.47E-07	1.52E-07		
05/16/03	1.78E+04	3.63E-06	1.47E-07	1.07E-07		
05/28/03	1.25E+04	3.63E-06	1.47E-07	2.23E-07		
06/03/03	1.64E+04	8.47E-05	1.24E-07	1.72E-07	3.92E-07	6.13E-08
06/06/03	1.63E+04	8.47E-05	1.24E-07	2.65E-07	3.92E-07	6.13E-08
06/09/03	1.80E+04	8.47E-05	1.24E-07	2.76E-07	3.92E-07	6.13E-08
06/14/03	1.82E+04	8.47E-05	1.24E-07	3.91E-07	3.92E-07	6.13E-08
06/16/03	1.74E+04	8.47E-05	1.24E-07	3.04E-07	3.92E-07	6.13E-08
06/20/03	1.83E+04	8.47E-05	1.24E-07	1.51E-07	3.92E-07	6.13E-08
06/24/03	1.81E+04	8.47E-05	1.24E-07	2.70E-07	3.92E-07	6.13E-08
06/30/03	1.59E+04	8.47E-05	1.24E-07	3.42E-07	3.92E-07	6.13E-08
07/11/03	1.51E+04	2.27E-06	2.20E-07	4.27E-07	3.61E-07	8.85E-08
07/12/03	1.60E+04	2.27E-06	2.20E-07	3.92E-07	3.61E-07	8.85E-08
07/18/03	1.89E+04	2.27E-06	2.20E-07	5.52E-06	3.61E-07	8.85E-08
07/23/03	1.83E+04	2.27E-06	2.20E-07	2.80E-07	3.61E-07	8.85E-08
07/25/03	1.88E+04	2.27E-06	2.20E-07	1.90E-07	3.61E-07	8.85E-08
08/01/03	1.78E+04	2.38E-05	1.60E-07	1.44E-07	3.65E-07	5.06E-08
08/07/03	1.50E+04	2.38E-05	1.60E-07	1.44E-07	3.65E-07	5.06E-08
08/12/03	1.66E+04	2.38E-05	1.60E-07	2.62E-07	3.65E-07	5.06E-08
08/13/03	1.07E+04	2.38E-05	1.60E-07	1.21E-07	3.65E-07	5.06E-08
08/19/03	1.80E+04	2.38E-05	1.60E-07	4.51E-07	3.65E-07	5.06E-08
08/20/03	1.02E+04	2.38E-05	1.60E-07	1.02E-07	3.65E-07	5.06E-08
08/27/03	1.84E+04	2.38E-05	1.60E-07	5.49E-07	3.65E-07	5.06E-08
08/28/03	1.04E+04	2.38E-05	1.60E-07	1.36E-07	3.65E-07	5.06E-08
09/04/03	1.60E+04	3.00E-05	1.05E-07	2.30E-07		
09/09/03	1.04E+04	3.00E-05	1.05E-07	2.04E-07		
09/15/03	1.83E+04	3.00E-05	1.05E-07	2.90E-07		
09/15/03	1.04E+04	3.00E-05	1.05E-07	2.34E-07		
09/18/03	1.78E+04	3.00E-05	1.05E-07	2.20E-07		
09/23/03	1.04E+04	3.00E-05	1.05E-07	2.55E-07		

09/26/03	1.89E+04	3.00E-05	1.05E-07	4.62E-07		
09/29/03	1.04E+04	3.00E-05	1.05E-07	4.55E-07		
09/30/03	1.81E+04	3.00E-05	1.05E-07	7.01E-07		
10/01/03	1.04E+04	4.02E-05	1.45E-07	3.57E-07	3.73E-07	
10/03/03	1.88E+04	4.02E-05	1.45E-07	7.07E-07	3.73E-07	
10/03/03	1.04E+04	4.02E-05	1.45E-07	4.13E-07	3.73E-07	
10/07/03	1.80E+04	4.02E-05	1.45E-07	5.76E-07	3.73E-07	
10/08/03	1.01E+04	4.02E-05	1.45E-07	5.45E-07	3.73E-07	
10/16/03	1.00E+04	4.02E-05	1.45E-07	5.45E-07	3.73E-07	
10/17/03	8.36E+03	4.02E-05	1.45E-07	6.65E-07	3.73E-07	
10/17/03	1.04E+04	4.02E-05	1.45E-07	6.65E-07	3.73E-07	
10/24/03	6.94E+03	4.02E-05	1.45E-07	6.76E-07	3.73E-07	
10/27/03	1.11E+04	4.02E-05	1.45E-07	6.76E-07	3.73E-07	
10/27/03	8.80E+03	4.02E-05	1.45E-07	4.39E-07	3.73E-07	
10/29/03	1.79E+04	4.02E-05	1.45E-07	6.33E-07	3.73E-07	
10/31/03	1.01E+04	4.02E-05	1.45E-07	5.89E-07	3.73E-07	
11/05/03	1.81E+04	1.06E-05	8.40E-08	8.24E-07	2.41E-07	6.88E-08
11/06/03	1.05E+04	1.06E-05	8.40E-08	6.66E-07	2.41E-07	6.88E-08
11/12/03	1.04E+04	1.06E-05	8.40E-08	6.09E-07	2.41E-07	6.88E-08
11/12/03	1.88E+04	1.06E-05	8.40E-08	9.49E-07	2.41E-07	6.88E-08
11/18/03	1.04E+04	1.06E-05	8.40E-08	7.10E-07	2.41E-07	6.88E-08
11/20/03	1.82E+04	1.06E-05	8.40E-08	8.30E-07	2.41E-07	6.88E-08
11/20/03	1.03E+04	1.06E-05	8.40E-08	7.30E-07	2.41E-07	6.88E-08
11/25/03	1.86E+04	1.06E-05	8.40E-08	8.37E-07	2.41E-07	6.88E-08
11/29/03	1.04E+04	1.06E-05	8.40E-08	8.23E-07	2.41E-07	6.88E-08
12/03/03	1.04E+04	1.29E-05	1.63E-07	7.00E-07	2.46E-07	1.29E-07
12/04/03	1.85E+04	1.29E-05	1.63E-07	7.25E-07	2.46E-07	1.29E-07
12/09/03	1.04E+04	1.29E-05	1.63E-07	8.93E-07	2.46E-07	1.29E-07
12/10/03	1.04E+04	1.29E-05	1.63E-07	1.00E-06	2.46E-07	1.29E-07
12/11/03	1.02E+04	1.29E-05	1.63E-07	7.11E-07	2.46E-07	1.29E-07
12/12/03	1.83E+04	1.29E-05	1.63E-07	8.68E-07	2.46E-07	1.29E-07
12/16/03	1.04E+04	1.29E-05	1.63E-07	1.23E-06	2.46E-07	1.29E-07
12/17/03	1.82E+04	1.29E-05	1.63E-07	1.34E-06	2.46E-07	1.29E-07
12/18/03	1.04E+04	1.29E-05	1.63E-07	1.78E-06	2.46E-07	1.29E-07
12/22/03	1.85E+04	1.29E-05	1.63E-07	1.79E-06	2.46E-07	1.29E-07
12/23/03	1.04E+04	1.29E-05	1.63E-07	1.67E-06	2.46E-07	1.29E-07
12/29/03	1.69E+04	1.29E-05	1.63E-07	1.71E-06	2.46E-07	1.29E-07
12/20/03	1.02E+04	1.29E-05	1.63E-07	1.63E-07	2.46E-07	1.29E-07

RETDAS v3.6.0 <IP2> VSSI

LIQUID RELEASE AND DOSE SUMMARY REPORT
---------- (PERMIT BASIS) ----------

Release ID.....: 12 North Curtain Drain
Period Start Date.....: 01/01/2004 00:00
Period End Date.....: 01/01/2005 00:00
Period Duration (mins): 5.270E+05

=== RELEASE DATA ==========

Total Release Duration (minutes)..... 4.349E+05
Total Undiluted Volume Released (gallons)..... 1.713E+06
Average Undiluted Flowrate (gpm)..... 3.940E+00

Total Dilution Volume (gallons)..... 4.951E+11
Average Dilution Flowrate (gpm)..... 1.139E+06

=== NUCLIDE DATA ==========

		|----Undiluted-----|		|-----Diluted------|	
Nuclide	uCi	Average uCi/ml	Percent of 10*EC	Average uCi/ml	Percent of 10*EC
CS-137	8.42E+02	1.30E-07	1.30E+00	4.49E-13	4.49E-06
Gamma	8.42E+02	1.30E-07	1.30E+00	4.49E-13	4.49E-06
H-3	1.25E+05	1.92E-05	1.92E-01	6.65E-11	6.65E-07
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	1.55E+03	2.38E-07	2.38E-02	8.25E-13	8.25E-08
SR-89	2.74E+02	4.23E-08	5.28E-02	1.46E-13	1.83E-07
SR-90	4.59E+02	7.07E-08	1.41E+00	2.45E-13	4.89E-06
Beta	1.27E+05	1.96E-05	1.68E+00	6.77E-11	5.82E-06
Total	1.28E+05	1.97E-05	2.98E+00	6.82E-11	1.03E-05

=== PERMIT ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ==========

Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
				TOTALS				
ADULT	3.23E-04	5.13E-05	2.72E-08	1.60E-05	5.35E-06	9.12E-06	0.00E+00	8.80E-05
TEEN	2.91E-04	5.34E-05	2.09E-08	1.67E-05	6.51E-06	7.36E-06	0.00E+00	6.54E-05
CHILD	3.02E-04	4.91E-05	1.74E-08	1.46E-05	5.27E-06	3.12E-06	0.00E+00	5.14E-05

Verified By: _____ Date: _____

LIQUID RELEASE AND DOSE SUMMARY REPORT
---------- (PERMIT BASIS) ----------

Release ID.....: 12 North Curtain Drain

Period Start Date.....: 01/01/2004 00:00
Period End Date.....: 01/01/2005 00:00
Period Duration (mins): 5.270E+05

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) ==========

Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
ADULT								
H-3	0.00E+00	2.72E-08	2.72E-08	2.72E-08	2.72E-08	2.72E-08	0.00E+00	2.72E-08
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	5.93E-05	4.11E-06	0.00E+00	0.00E+00	0.00E+00	8.58E-07	0.00E+00	2.00E-06
SR-89	5.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-07	0.00E+00	1.56E-07
SR-90	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.45E-06	0.00E+00	5.50E-05
CS-137	3.44E-05	4.71E-05	0.00E+00	1.60E-05	5.32E-06	9.12E-07	0.00E+00	3.09E-05
TEEN								
H-3	0.00E+00	2.09E-08	2.09E-08	2.09E-08	2.09E-08	2.09E-08	0.00E+00	2.09E-08
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	6.16E-05	4.34E-06	0.00E+00	0.00E+00	0.00E+00	6.91E-07	0.00E+00	2.08E-06
SR-89	5.92E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.04E-07	0.00E+00	1.69E-07
SR-90	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.25E-06	0.00E+00	4.61E-05
CS-137	3.69E-05	4.90E-05	0.00E+00	1.67E-05	6.49E-06	6.97E-07	0.00E+00	1.71E-05
CHILD								
H-3	0.00E+00	1.74E-08	1.74E-08	1.74E-08	1.74E-08	1.74E-08	0.00E+00	1.74E-08
FE-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NI-63	8.18E-05	4.38E-06	0.00E+00	0.00E+00	0.00E+00	2.95E-07	0.00E+00	2.79E-06
SR-89	7.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.97E-07	0.00E+00	2.20E-07
SR-90	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-06	0.00E+00	4.18E-05
CS-137	4.68E-05	4.47E-05	0.00E+00	1.46E-05	5.25E-06	2.80E-07	0.00E+00	6.58E-06

=== MAXIMUM DOSE FOR PERIOD ==========

Limit Type	Organ Type	Age Group	Organ	Dose (mrem)	Limit Period	Limit (mrem)	Percent of Limit
T.Spec	Any Organ	ADULT	BONE	3.23E-04	Annual	1.00E+01	3.23E-03
T.Spec	Tot Body	ADULT	TBODY	8.80E-05	Annual	3.00E+00	2.93E-03

RETDAS v3.6.0 <IP2> VSSI

LIQUID RELEASE AND DOSE SUMMARY REPORT

Release ID.....: 9 Frac Trucks 1/1/2004 to 4/1/2004
Period Duration (mins): 1.310E+05

=== RELEASE DATA ==========

Total Release Duration (minutes).....	5.328E+03
Total Undiluted Volume Released (gallons).....	1.706E+05
Average Undiluted Flowrate (gpm).....	3.202E+01
Total Dilution Volume (gallons).....	4.795E+09
Average Dilution Flowrate (gpm).....	9.000E+05

=== NUCLIDE DATA ==========

		|----Undiluted-----|		|-----Diluted------|	
Nuclide	uCi	Average uCi/ml	Percent of 10*EC	Average uCi/ml	Percent of 10*EC
CS-137	6.07E+02	9.40E-07	9.40E+00	3.34E-11	3.34E-04
Gamma	6.07E+02	9.40E-07	9.40E+00	3.34E-11	3.34E-04
H-3	1.21E+04	1.87E-05	1.87E-01	6.65E-10	6.65E-06
SR-89	2.36E+01	3.66E-08	4.58E-02	1.30E-12	1.63E-06
SR-90	7.16E+01	1.11E-07	2.22E+00	3.95E-12	7.89E-05
Beta	1.22E+04	1.89E-05	2.45E+00	6.71E-10	8.72E-05
Total	1.28E+04	1.98E-05	1.18E+01	7.04E-10	4.21E-04

=== PERMIT ORGAN DOSE BY AGE GROUP AND PATHWAY (mrem) ==========

Age/Path	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
				TOTALS				
ADULT	7.62E-05	4.30E-05	3.33E-09	1.46E-05	4.85E-06	2.20E-06	0.00E+00	3.90E-05
TEEN	7.11E-05	4.47E-05	2.56E-09	1.52E-05	5.92E-06	1.75E-06	0.00E+00	2.47E-05
CHILD	7.62E-05	4.08E-05	2.13E-09	1.33E-05	4.79E-06	7.31E-07	0.00E+00	1.43E-05

=== PERMIT ORGAN DOSE BY AGE GROUP AND NUCLIDE (mrem) ==========

Agegroup	Bone	Liver	Thyroid	Kidney	Lung	GI-Lli	Skin	TB
ADULT								
H-3	0.00E+00	3.33E-09	3.33E-09	3.33E-09	3.33E-09	3.33E-09	0.00E+00	3.33E-09
SR-89	5.92E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.51E-08	0.00E+00	1.70E-08
SR-90	4.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-06	0.00E+00	1.09E-05
CS-137	3.14E-05	4.30E-05	0.00E+00	1.46E-05	4.85E-06	8.31E-07	0.00E+00	2.81E-05
TEEN								
H-3	0.00E+00	2.56E-09	2.56E-09	2.56E-09	2.56E-09	2.56E-09	0.00E+00	2.56E-09
SR-89	6.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.68E-08	0.00E+00	1.85E-08
SR-90	3.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-06	0.00E+00	9.11E-06
CS-137	3.36E-05	4.47E-05	0.00E+00	1.52E-05	5.91E-06	6.35E-07	0.00E+00	1.56E-05
CHILD								
H-3	0.00E+00	2.13E-09	2.13E-09	2.13E-09	2.13E-09	2.13E-09	0.00E+00	2.13E-09
SR-89	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.24E-08	0.00E+00	2.41E-08
SR-90	3.27E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-07	0.00E+00	8.27E-06
CS-137	4.26E-05	4.08E-05	0.00E+00	1.33E-05	4.78E-06	2.55E-07	0.00E+00	6.00E-06

Tritium uCi/ml, 2005

Date	RCS	RWST	U1 West Pool	U2 SFP	NCD	SFDS
12/15/04	4.21E-01	2.00E-01		3.49E-02	7.87E-06	1.94E-06
01/15/05	4.21E-01		7.05E-04		6.51E-06	***2.97E-06***
02/15/05	7.94E-01		2.22E-03	3.30E-02	1.18E-05	2.00E-06
03/15/05	1.10E+00	1.49E-01	6.55E-04	5.46E-02	9.50E-06	***1.01E-06***
04/15/05	1.20E+00	1.68E-01	4.35E-04	4.16E-02	6.48E-06	***9.34E-07***
05/15/05	1.31E+00			4.39E-02	9.79E-06	***7.97E-07***
06/10/05	1.43E+00			3.10E-02	1.07E-05	***8.00E-07***
07/15/05	7.13E-01		4.13E-04	4.67E-02	1.15E-05	***8.00E-07***
08/08/05	1.55E+00		4.03E-04	2.75E-02	1.20E-05	***8.00E-07***
09/15/05	1.47E+00		3.27E-04	2.65E-02	1.32E-05	8.53E-07
10/15/05	1.42E+00	1.97E-01	2.72E-04	2.52E-02	1.06E-05	***8.00E-07***
10/27/05	1.39E+00		4.00E-02	2.58E-02		
11/08/05			2.75E-03			

From: "Sandike, Steven" <SSandik@entergy.com>
To: <JDN@nrc.gov>
Date: 11/22/05 10:15AM
Subject: Latest from Quinn

Stuff we worked on last night....

<<H3 balance-DQ.xls>> <<NCD-SFDS-00-03.xls>> <<U2H3-2005-sources.xls>>

And some 80-10 data, along with the gamma spec cover sheet from the local well digging at U2 FSB wall

<<80-10-etc.pdf>>

I am still collecting and preparing a spreadsheet for other 80-10 data back to 2000...Although we have collected H-3 on Unit 2 storm drains for years, it has only recently been added to WinCDMS, so I am digging it out of the Tritium data sheets.
(I will arrange for it to be back-fitted into WinCDMS as well - we need to see and manage this trend....).

Steve Sandike
Effluents / RMS
ENN Indian Point Energy Center
Buchanan, NY 10511-0308
phone: 914-736-8455
fax: 914-734-6010
email: ssandik@entergy.com

Time Frame	NCD gallons	NCD H3 uCi/cc	NCD H3 uCi	SFDS gallons	SFDS H3 uCi/cc	SFDS uCi	Total uCi from SFDS & NCD (all of 2004)	Unit 1 SFP H-3 uCi/cc	gal total from U1 SFP*	gallons per day from SFP	Comments
1st Qtr 2004	1.88E+06	1.87E-05	*1.33E+05*	1.27E+07	3.63E-06	*1.74E+05*	3.08E+05	8.78E-04	9.25E+04	2.54E+02	

***assumes all H3 from u1 SFP**

Errors to consider:
some values of H-3 are near LLD and were calculated as if present at LLD
data for H-3 is to be verified that this is the most accurate data available

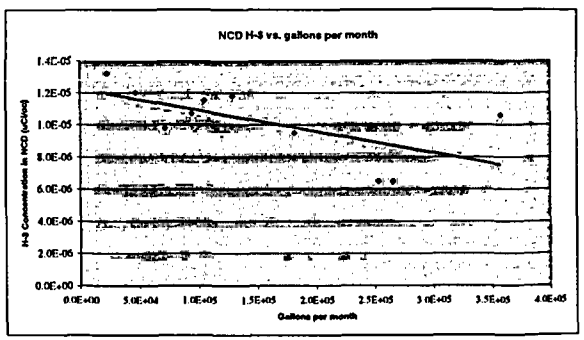
Leak rate of 256 gallons per day is an indication that there may be other sources of H-3 to the NCD and/or the SFDS, assuming the H-3 data is accurate.

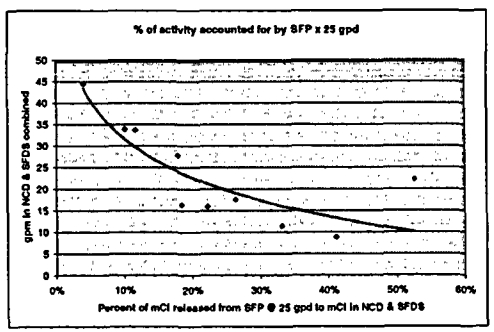
2005 Tritium Balance for unit 1 West Pool, Sphere Foundation Drain Sump, and North Curtain Drain

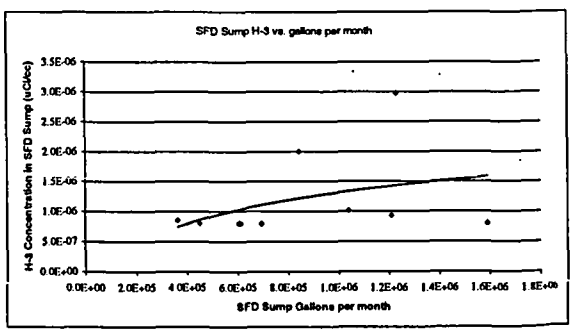
Month	NCD gallons	NCD H3 uCi/cc	NCD H3 uCi	SFDS gallons	SFDS H3 uCi/cc	SFDS uCi	Total uCi from SFDS & NCD	Unit 1 SFP H 3 uCi/cc	gal per month from U1 SFP*	monthly gallons per day from U1 SFP	Comments	mCi/month in SFP water x 25 gpd	mCi/month in NCD + SFDS x gal	Percent accounted for by 25 gpd	monthly avg gpm in NCD + SFDS
January	2.53E+05	6.51E-06	6.23E+03	1.23E+05	2.97E-06	1.38E+04	2.01E+04	7.05E-04	7.52E+03	247		2.0	20.1	10%	34
February	1.29E+05	1.18E-05	5.76E+03	8.43E+05	2.00E-06	6.38E+03	1.21E+04	2.22E-03	1.45E+03	48		6.4	12.1	53%	22
March	1.81E+05	9.50E-06	6.51E+03	1.04E+05	1.01E-06	3.98E+03	1.05E+04	6.55E-04	4.23E+03	138		1.9	10.5	18%	29
April	2.65E+05	6.44E-06	6.50E+03	1.21E+05	9.34E-07	4.26E+03	1.08E+04	4.35E-04	6.55E+03	218		1.3	10.8	12%	34
May	7.11E+04	9.79E-06	2.63E+03	6.94E+05	7.97E-07	2.09E+03	4.73E+03	4.35E-04	2.87E+03	94	No sample in May, used April's value	1.3	4.7	28%	17
June	9.37E+04	1.07E-06	3.79E+03	6.05E+05	6.00E-07	1.83E+03	5.63E+03	4.35E-04	3.42E+03	112	No sample in June, used April's value	1.3	5.6	22%	16
July	1.05E+05	1.15E-06	4.57E+03	6.12E+05	8.00E-07	1.85E+03	6.42E+03	4.13E-04	4.11E+03	135		1.2	6.4	18%	16
August	4.69E+04	1.20E-06	2.13E+03	4.51E+05	8.00E-07	1.37E+03	3.50E+03	4.03E-04	2.29E+03	75		1.2	3.5	33%	11
September	2.23E+04	1.32E-06	1.11E+03	3.63E+05	8.53E-07	1.17E+03	2.29E+03	3.27E-04	1.85E+03	61		0.9	2.3	41%	9
October	3.57E+05	1.08E-05	1.43E+04	1.59E+06	9.00E-07	4.81E+03	1.91E+04	2.72E-04	1.86E+04	611	1 sample in October 4E-2 SFP, used the other sample in October If 4 E-2 was used, monthly rate would be 4 gpd	0.6	19.1	4%	44
November			0.00E+00			0.00E+00		2.75E-03				7.9			
December			0.00E+00			0.00E+00									
Total	1.52E+06	1.02E-05	5.34E+04	8.64E+06	1.18E-06	4.16E+04	9.52E+04	8.22E-04	5.23E+04	174		23.7	95.2	25%	
									Std Dev	167					

*assumes all H3 from u1 SFP

some values of H-3 below LLD and were calculated as if they were present at the LLD







2005 Tritium Balance for unit 1 West Pool, Sphere Foundation Drain Sump, and North Curtain Drain

Month	NCD gallons	NCD H3 uCi/cc	NCD H3 uCi	SFDS gallons	SFDS H3 uCi/cc	SFDS uCi	Total uCi from SFDS & NCD	Unit 1 SFP H-3 uCi/cc	gal per month from U1 SFP*	monthly gallons per day from U1 SFP	Comments
January	2.53E+05	6.51E-06	6.23E+03	1.23E+06	0.00E+00	0.00E+00	6.23E+03	7.05E-04	2.34E+03	77	Used zero for MDA in SFDS H3
February	1.29E+05	1.18E-05	5.76E+03	8.43E+05	2.00E-06	6.38E+03	1.21E+04	2.22E-03	1.45E+03	48	
March	1.81E+05	9.50E-06	6.51E+03	1.04E+06	0.00E+00	0.00E+00	6.51E+03	6.55E-04	2.63E+03	86	Used zero for MDA in SFDS H3
April	2.65E+05	6.48E-06	6.50E+03	1.21E+06	0.00E+00	0.00E+00	6.50E+03	4.35E-04	3.95E+03	130	Used zero for MDA in SFDS H3
May	7.11E+04	9.79E-06	2.63E+03	6.94E+05	0.00E+00	0.00E+00	2.63E+03	4.35E-04	1.60E+03	53	No FSP sample in May, used April's value; used zero for MDA in SFDS H3
June	9.37E+04	1.07E-05	3.79E+03	6.05E+05	0.00E+00	0.00E+00	3.79E+03	4.35E-04	2.30E+03	76	No FSP sample in June, used April's value; used zero for MDA in SFDS H3
July	1.05E+05	1.15E-05	4.57E+03	6.12E+05	0.00E+00	0.00E+00	4.57E+03	4.13E-04	2.92E+03	96	Used zero for MDA in SFDS H3
August	4.69E+04	1.20E-05	2.13E+03	4.51E+05	0.00E+00	0.00E+00	2.13E+03	4.03E-04	1.40E+03	46	Used zero for MDA in SFDS H3
September	2.23E+04	1.32E-05	1.11E+03	3.63E+05	8.53E-07	1.17E+03	2.29E+03	3.27E-04	1.85E+03	61	
October	3.57E+05	1.06E-05	1.43E+04	1.59E+06	0.00E+00	0.00E+00	1.43E+04	4.00E-02	9.46E+01	3.1	Used high sample in October 4E-2 SFP, other sample indicated 2.74 E-4, Used zero for MDA in SFDS H3
November			0.00E+00			0.00E+00		2.75E-03			
December			0.00E+00			0.00E+00					
Total	**1.52E+06**	**1.02E-05**	**5.36E+04**	**8.64E+06**	**2.85E-07**	**7.55E+03**	**6.11E+04**	**4.43E-03**	**2.05E+04**	**68**	
									Std Dev	34	

*assumes all H3 from u1 SFP

Date	H-3 uCi/cc	H-3 with <mda as mda
31-Jan-04	2.13E-06	2.13E-06
04-Mar-04	1.85E-06	1.85E-06
15-Mar-04	< 9.68E-07	9.68E-07
15-Apr-04	1.85E-06	1.85E-06
19-May-04	4.27E-06	4.27E-06
31-May-04	4.60E-06	4.60E-06
30-Jun-04	2.69E-06	2.69E-06
31-Jul-04	8.25E-06	8.25E-06
31-Aug-04	2.52E-06	2.52E-06
15-Oct-04	9.37E-06	9.37E-06
06-Nov-04	2.18E-04	na
09-Nov-04	< 3.34E-06	3.34E-06
30-Nov-04	< 3.47E-06	3.47E-06
31-Dec-04	1.94E-06	1.94E-06
31-Jan-05	< 2.97E-06	< 2.97E-06
31-Mar-05	< 1.01E-06	< 1.01E-06
30-Apr-05	< 9.34E-07	< 9.34E-07
Avg for 2004	2.34E-05	3.63E-06

11/04/2005	Condensate Pump Discharge	2.94
11/04/2005	Condensate Pump Discharge	3.61
11/04/2005	Condensate Pump Discharge	4.27
11/05/2005	Condensate Pump Discharge	4.61
11/05/2005	Condensate Pump Discharge	3.56
11/05/2005	Condensate Pump Discharge	3.08
11/06/2005	Condensate Pump Discharge	3.01
11/06/2005	Condensate Pump Discharge	2.9
11/06/2005	Condensate Pump Discharge	2.93
11/07/2005	Condensate Pump Discharge	2.91
11/07/2005	Condensate Pump Discharge	3.1
11/07/2005	Condensate Pump Discharge	2.7
11/08/2005	Condensate Pump Discharge	2.75
11/08/2005	Condensate Pump Discharge	2.82
11/08/2005	Condensate Pump Discharge	2.9
11/09/2005	Condensate Pump Discharge	3.1
11/09/2005	Condensate Pump Discharge	3.11
11/09/2005	Condensate Pump Discharge	3.1
11/10/2005	Condensate Pump Discharge	3.06
11/10/2005	Condensate Pump Discharge	3.02
11/10/2005	Condensate Pump Discharge	3.04
11/11/2005	Condensate Pump Discharge	3.09
11/11/2005	Condensate Pump Discharge	3.13
11/11/2005	Condensate Pump Discharge	3.12
11/12/2005	Condensate Pump Discharge	3.12
11/12/2005	Condensate Pump Discharge	3.13
11/13/2005	Condensate Pump Discharge	3.07
11/13/2005	Condensate Pump Discharge	3.04
11/13/2005	Condensate Pump Discharge	3.11
11/14/2005	Condensate Pump Discharge	3.11
11/14/2005	Condensate Pump Discharge	3.14
11/14/2005	Condensate Pump Discharge	3.25
11/15/2005	Condensate Pump Discharge	3.42
11/15/2005	Condensate Pump Discharge	3.5
11/15/2005	Condensate Pump Discharge	3.4
11/16/2005	Condensate Pump Discharge	3.43
11/16/2005	Condensate Pump Discharge	3.44
11/16/2005	Condensate Pump Discharge	3.4
11/17/2005	Condensate Pump Discharge	3.4
11/17/2005	Condensate Pump Discharge o/s	
11/17/2005	Condensate Pump Discharge	3.4
11/18/2005	Condensate Pump Discharge	3.04
11/18/2005	Condensate Pump Discharge	2.31

11/18/2005	Condensate Pump Discharge	o/s	
11/19/2005	Condensate Pump Discharge	o/s	
11/19/2005	Condensate Pump Discharge	o/s	
11/19/2005	Condensate Pump Discharge	o/s	
11/20/2005	Condensate Pump Discharge		2.37
11/20/2005	Condensate Pump Discharge	os	
11/21/2005	Condensate Pump Discharge	o/s	
11/21/2005	Condensate Pump Discharge		2.16