Fw: EBV -- Final Dioxin/Furan Results Bldg 3
Ken Herstowski to: Edwin Buckner 07/10/2012 04:19 PM

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Subject:	Fw: EBV -- Final Dioxin/Furan Results Bldg 3

FYI.

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Subject:	EBV -- Final Dioxin/Furan Results Bldg 3

Attached are the test results for the D/F testing that was conducted at Building 3 on May 31 and June 1. The results show improvement, but are not as good as we hoped. As you know, we are moving forward with an activated carbon injection system and plan to retest next week. We will telephone you tomorrow to discuss. Thank you.

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PCDD-PCDF Results_BLDG3_061212_Final.pdf

RCRA
517154

PCDD / PCDF Emission Results - TEQ Basis
General Dynamics - Building 3 Main Stack

	Run No.	Run 1		Run 2		Run 3		Average
	Date	31-May-12		01-Jun-12		01-Jun-12		
	Start Time	17:33		11:41		15:19		
	Stop Time	20:40		14:47		18:25		
	Units							
Sample Volume	dscf	125.318		125.855		125.963		**125.712**
Sample Volume	m^3	3.55		3.56		3.57		**3.56**
Moisture Content	% v/v	6.2		6.5		6.6		**6.4**
O_2 Concentration	% v/v (dry)	20.30		20.30		20.30		**20.30**
CO_2 Concentration	% v/v (dry)	0.70		0.70		0.70		**0.70**
Isokinetics	%	100		100		101		**100**
Stack Flowrate	dscfm	24,068		24,055		23,914		**24,012**
PCDD / PCDF Parameters	TEF (a)	pg	ng/m³ TEQ	pg	ng/m³ TEQ	pg	ng/m³ TEQ	
2,3,7,8-TCDD	1.00	58.0	1.6E-02	116	3.3E-02	52.0	1.5E-02	
1,2,3,7,8-PeCDD	0.50	23.0	3.2E-03	46.0	6.5E-03	20.0	2.8E-03	
1,2,3,4,7,8-HxCDD	0.10	3.6	1.0E-04	6.5	1.8E-04	2.3	6.4E-05	
1,2,3,6,7,8-HxCDD	0.10	3.2	9.0E-05	7.3	2.0E-04	2.2	6.2E-05	
1,2,3,7,8,9-HxCDD	0.10	2.2	6.1E-05	9.7	2.7E-04	1.7	4.9E-05	
1,2,3,4,6,7,8-HpCDD	0.01	3.3	9.3E-06	11.3	3.2E-05	2.1	5.9E-06	
OCDD	0.001	11.2	3.2E-06	13.3	3.7E-06	7.3	2.0E-06	
2,3,7,8-TCDF	0.10	4,990	1.4E-01	5,670	1.6E-01	4,630	1.3E-01	
1,2,3,7,8-PeCDF	0.05	1,070	1.5E-02	1,130	1.6E-02	835	1.2E-02	
2,3,4,7,8-PeCDF	0.50	553	7.8E-02	557	7.8E-02	411	5.8E-02	
1,2,3,4,7,8-HxCDF	0.10	693	2.0E-02	697	2.0E-02	475	1.3E-02	
1,2,3,6,7,8-HxCDF	0.10	157	4.4E-03	176	4.9E-03	105	2.9E-03	
2,3,4,6,7,8-HxCDF	0.10	20.0	5.6E-04	43.0	1.2E-03	14.5	4.1E-04	
1,2,3,7,8,9-HxCDF	0.10	12.7	3.6E-04	13.1	3.7E-04	8.9	2.5E-04	
1,2,3,4,6,7,8-HpCDF	0.01	72.0	2.0E-04	114	3.2E-04	47.0	1.3E-04	
1,2,3,4,7,8,9-HpCDF	0.01	22.0	6.2E-05	24.0	6.7E-05	14.0	3.9E-05	
OCDF	0.001	13.0	3.7E-06	16.9	4.7E-06	7.6	2.1E-06	**Average**
TOTAL TEQs (ng/m³)		=	0.279		0.319		0.234	**0.277**
% of Standard [b]		=	**253%**		**290%**		**213%**	**252%**

[a] U.S.EPA (1989) Toxic Equivalency Factor

[b] PCDD/PCDF Standard = 0.11 ng/dscm