Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 50607, PSDTX331M1, PSDTX804, and PSDTX1017M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point	Source Name (2)	Air Contaminant	Emission	n Rates
No. (1)		Name (3)	lbs/hour	TPY (4)
Emission Cap	Combustion Units, Cooling Towers, Flares/Vapor Combustor, Fugitives (5),	VOC	397.66	1025.25
	Loading, Process Vents, Storage Tanks, and Wastewater	Benzene	18.41	37.28
Emission Cap	Combustion Units, Flares/Vapor Combustor,	NO _x	253.78	536.54
	and Process Vents	СО	534.02	774.46
		SO ₂	189.60	236.84
Emission Cap	Combustion Units, Cooling Towers, and Process Vents	РМ	54.82	155.16
		PM ₁₀	54.82	155.16
Emission Cap	Combustion Units, Flares/Vapor Combustor, Fugitives, Process Vents, and Storage Tanks	H₂S	3.35	12.60
F-028	DHT/ASU (5)	NH₃	0.01	0.01
F-100	No. 1 Crude (5)	NH ₃	0.01	0.02
F-500	No. 1 Reformer	NH ₃	0.01	0.01
F-850	South Merox Unit (5)	NH ₃	0.01	0.01
F-1000	POU (5)	NH ₃	0.01	0.01
F-1400	Vacuum (5)	NH ₃	0.01	0.01
F-1500	HCU (5)	NH ₃	0.01	0.02
F-2000	ROSE Unit (5)	NH ₃	0.01	0.01
F-2200	DOT/Reformate Splitter	NH ₃	0.17	0.76

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	(5)			
F-2300	ATS (5)	NH_3	0.01	0.01
F-2300	SWS (5)	NH ₃	0.01	0.04
F-2400	FCCU (5)	NH₃	0.04	0.17
F-2400	FCCU Gas Con (5)	NH₃	0.01	0.01
F-2400	FCCU Merox (5)	NH₃	0.01	0.01
F-3700	HCU (5)	NH₃	0.01	0.01
F-3800	No. 2 HDU (5)	NH₃	0.01	0.02
F-3900	LEU (5)	NH₃	0.01	0.01
F-4000	No. 1 and No. 2 SRU (5)	NH₃	0.01	0.04
F-5400	BTX Unit Fugitives	NH₃	0.05	0.22
H-028	Crude Charge Heater 1	NO _x	11.18	23.41
		СО	14.61	44.41
		VOC	1.10	4.80
		SO ₂	6.17	7.56
		PM	1.51	6.63
		PM ₁₀	1.51	6.63
H-036	Crude Charge Heater 1	NO _x	11.18	31.56
		СО	14.61	55.54
		VOC	1.10	4.80
		SO ₂	7.95	9.23
		PM	1.51	6.63
		PM ₁₀	1.51	6.63

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H-016	Vacuum Unit Charge Heater	NO _x	4.95	21.66
	Healei	СО	10.16	21.70
		VOC	0.76	3.34
		SO ₂	6.82	6.75
		PM	1.05	4.62
		PM ₁₀	1.05	4.62
		PM _{2.5}	1.05	4.62
H-021	ROSE "DAGO" Heater	NO _x	1.90	8.31
		СО	2.69	4.71
		VOC	0.24	0.84
		SO ₂	1.18	1.60
		PM	0.33	1.17
		PM ₁₀	0.33	1.17
H-022	Asphalt Heater	NO _x	0.98	4.28
		СО	1.96	3.96
		VOC	0.15	0.64
		SO ₂	1.09	1.38
		PM	0.20	0.89
		PM ₁₀	0.20	0.89

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Isostripper Reboiler Heater	NO _x	1.99	4.90
Tiodio.	СО	3.12	3.83
	VOC	0.27	0.75
	SO ₂	0.47	1.16
	PM	0.37	1.04
	PM ₁₀	0.37	1.04
"BTX" Boiler	NO _x	12.33	34.16
	СО	18.02	27.76
	VOC	1.26	4.70
	SO ₂	0.13	0.44
	PM	1.74	6.49
	PM ₁₀	1.74	6.49
H043 BTX Reboil Heater	NO _x	4.27	9.86
	СО	5.10	5.90
	VOC	0.38	0.89
	SO ₂	3.43	1.90
	РМ	0.53	1.22
	PM ₁₀	0.53	1.22
	PM _{2.5}	0.53	1.22
	"BTX" Boiler	Heater	Heater CO 3.12 VOC 0.27 SO2 0.47 PM 0.37 PM ₁₀ 0.37 "BTX" Boiler NO _x 12.33 CO 18.02 VOC 1.26 SO2 0.13 PM 1.74 PM ₁₀ 1.74 PM ₁₀ 1.74 H043 BTX Reboil Heater NO _x 4.27 CO 5.10 VOC 0.38 SO2 3.43 PM 0.53 PM 0.53 PM 0.53

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H-044	BTX Reboil Heater	NO _x	1.83	5.75
		СО	3.65	4.93
		VOC	0.28	0.89
		SO ₂	1.50	1.68
		PM	0.39	1.22
		PM ₁₀	0.39	1.22
B-004	Boiler 6F1-A & Boiler 6F1-B	NO _x	25.97	72.43
		СО	9.28	12.94
		VOC	0.80	2.23
		SO ₂	3.79	4.77
		PM	1.11	3.08
		PM ₁₀	1.11	3.08

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B-006	East Plant Boiler Emissions	NO _x	13.07	49.82
	LITIOSIONS	СО	7.83	12.98
		VOC	0.59	2.24
		SO ₂	3.67	4.52
		PM	0.81	3.09
		PM ₁₀	0.81	3.09
H-041	DOT H2 Recycle Furnace	NO _x	3.40	5.70
		СО	3.50	2.92
		VOC	0.27	0.44
		SO ₂	2.34	0.78
		PM	0.36	0.60
		PM ₁₀	0.36	0.60
		PM _{2.5}	0.36	0.60
H-039	No. 1 SRU Hot Oil Heater	NO _x	0.69	1.60
		СО	0.50	2.17
		VOC	0.04	0.16
		SO ₂	0.33	0.31
		PM	0.05	0.23
		PM ₁₀	0.05	0.23
H-047	No. 2 SRU Hot Oil Heater	NO _x	1.84	6.58
		СО	2.46	4.38
		VOC	0.18	0.65
		SO ₂	1.65	1.30
		PM	0.26	0.91

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PM ₁₀	0.26	0.91
PM _{2.5}	0.26	0.91

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H-015A	Lubr. Oil Crude Atmospheric Heater	NO_x	0.69	2.60
	(H-1001)	СО	1.23	2.15
		VOC	0.11	0.49
		SO ₂	0.01	0.05
		PM	0.16	0.68
		PM ₁₀	0.16	0.68
H-015B	Lubr. Oil Crude Atmospheric Heater	NO _x	0.38	1.41
	(H-1002)	СО	0.67	1.17
		VOC	0.06	0.27
		SO ₂	0.01	0.03
		PM	0.08	0.37
		PM ₁₀	0.08	0.37
H-037	HDU Charge Heater 2	NO _x	2.68	6.72
		СО	3.28	4.39
		VOC	0.26	0.66
		SO ₂	1.34	0.24
		PM	0.36	0.91
		PM ₁₀	0.36	0.91
H-038	HDU Reboiler Heater 2	NO_x	1.85	4.65
		СО	2.88	4.18
		VOC	0.25	0.63
		SO ₂	0.88	0.99
		PM	0.34	0.87
		PM ₁₀	0.34	0.87

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H-014	Naphtha Splitter Reboiler	NO _x	4.16	13.11
		СО	4.60	6.05
		VOC	0.34	1.09
		SO ₂	1.96	2.09
		РМ	0.48	1.50
		PM_{10}	0.48	1.50
H-034	H.C.U. Recycle Heater	NO _x	3.47	11.24
		СО	4.99	7.02
		VOC	0.37	1.21
		SO ₂	2.40	2.24
		РМ	0.52	1.67
		PM ₁₀	0.52	1.67

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H-035	H.C.U. Debutanizer Reboiler Heater	NO _x	3.39	11.67
	Treboner Fleater	со	6.08	9.26
		VOC	0.46	1.57
		SO ₂	4.09	2.81
		PM	0.63	2.17
		PM ₁₀	0.63	2.17
		PM _{2.5}	0.63	2.17
H-018	H.C.U. Fractionation Heater	NO _x	4.24	10.52
		со	2.82	3.05
		VOC	0.21	0.53
		SO ₂	1.85	0.93
		PM	0.29	0.73
		PM ₁₀	0.29	0.73
H-019	H.C.U. Fractionation Heater	NO _x	2.70	8.02
		СО	4.30	3.47
		VOC	0.33	0.52
		SO ₂	2.89	1.51
		PM	0.44	0.72
		PM ₁₀	0.44	0.72
		PM _{2.5}	0.44	0.72

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H-030	No. 2 Reformer Charge Heater	NO _x	19.06	34.30
	l Isalei	СО	15.46	31.64
		VOC	2.38	4.28
		SO ₂	11.39	6.24
		PM	3.29	5.92
		PM ₁₀	3.29	5.92
		PM _{2.5}	3.29	5.92
H-032	No. 2 Reformer Charge Heater	NO _x	12.27	19.78
		СО	10.31	22.86
		VOC	0.97	2.50
		SO ₂	8.72	4.60
		PM	1.34	3.45
		PM ₁₀	1.34	3.45
		PM _{2.5}	1.34	3.45

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H-033	No. 2 Reformer Stab.	NO _x	2.25	5.95
	Kenonei	СО	4.05	5.35
		VOC	0.30	0.80
		SO ₂	2.71	1.03
		РМ	0.42	1.11
		PM ₁₀	0.42	1.11
		PM _{2.5}	0.42	1.11
H-045	DHT Charge Heater	NO _x	2.05	8.98
		СО	2.95	5.53
		VOC	0.22	0.97
		SO ₂	1.93	1.82
		PM	0.31	1.34
		PM ₁₀	0.31	1.34
H-046	Fractionator Feed Heater	NO _x	2.88	12.59
		СО	4.59	9.06
		VOC	0.34	1.51
		SO ₂	2.87	3.11
		РМ	0.48	2.09
		PM ₁₀	0.48	2.09

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H-023	Tracing Oil Heater	NO _x	0.09	0.27
		СО	0.15	0.22
		VOC	0.01	0.04
		SO ₂	0.08	0.08
		PM	0.02	0.06
		PM ₁₀	0.02	0.06
H-004	Lubr. HDS Charge Heater	NO _x	0.41	1.79
		СО	0.88	3.85
		VOC	0.06	0.27
		SO ₂	0.01	0.03
		PM	0.09	0.37
		PM ₁₀	0.09	0.37
		PM _{2.5}	0.09	0.37
H-031	No. 1 HDU Stripper Reboiler Heater	NO _x	0.79	3.44
		СО	1.57	6.88
		VOC	0.12	0.51
		SO ₂	1.06	0.85
		PM	0.16	0.71
		PM ₁₀	0.16	0.71
		PM _{2.5}	0.16	0.71

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H-010	No. 1 HDU Reactor Charge Heater	NO _x	1.05	4.59
	Charte Fiealer	СО	2.10	9.18
		VOC	0.16	0.69
		SO ₂	1.41	1.11
		PM	0.22	0.96
		PM ₁₀		
		PM _{2.5}		
H-011	No. 1 Ref. Stabilizer Reboiler Heater	NO _x	0.52	2.26
		СО	0.83	3.61
		VOC	0.06	0.27
		SO ₂	0.54	0.59
		PM	0.09	0.37
		PM ₁₀	0.09	0.37
H-012	Reformer Charge Heater	NO _x	5.41	23.72
		СО	7.56	16.86
		VOC	0.57	2.48
		SO ₂	4.94	5.34
		PM	0.78	3.43
		PM ₁₀	0.78	3.43

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I	I			
H-013	No. 1 Stabilizer Reboiler Heater	NO _x	1.86	8.13
		СО	1.24	2.71
		VOC	0.09	0.40
		SO ₂	0.83	0.47
		PM	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.13	0.56
S-007, S-008, S-031, S-032, S-033, S-034	Subcaps for Storage	VOC	84.69	134.74
FL-003, FL-004, FL-006, FL-501	Subcaps for Flares	NO _x	16.27	17.32
		СО	84.41	90.11
		VOC	74.9	118.63
		SO ₂	5.30	6.42
F-28, ¥960 (#1 Crude, Desalter),	133.40	584.67		
F- 900 0F-500, F-620, F-660 (EPItFlareE,		VOC	0.25	1.10
EPItFlareS, West Plant Flare System), F-		PM	0.36	1.58
700, F-820, F-830S, F- 850 (S Merox Unit,		PM ₁₀	0.36	1.58
Fanklearm), F-900, F-1000, F-1200,	East Plant Cooling Tower	VOC	1.68	7.36
F-1400, F-1500, F-2000, F-2100, F-2200 (DOT/Ref Splitter, East Plant Alky Splitter), F-2300 (ATS, SWS), F-2400 (FCCU, FCCU Gas Con, FCCU Merox), F-2500, F-2600, F-2700, F-2800 (EP Cool Twr, EP Utilities), F-3700 (HCU, HCU Hot Oil Drum), F-3800,		PM	2.40	10.52

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H-012	Reformer Charge Heater	NO _x	5.41	23.72
		СО	7.56	16.86
		VOC	0.57	2.48
		SO ₂	4.94	5.34
		РМ	0.78	3.43
		PM ₁₀	0.78	3.43

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H-013	No. 1 Stabilizer Reboiler Heater	NO _x	1.86	8.13
		CO	1.24	2.71
		VOC	0.09	0.40
		SO ₂	0.83	0.47
		PM	0.13	0.56
		PM ₁₀	0.13	0.56
		PM _{2.5}	0.13	0.56
S-007, S-008, S-031, S-032, S-033, S-034, S-035, S-036, S-037, S-038, S-039, S-040, S-041, S-042, S-043, S-044, S-100, S-101, S-102, S-108, S-114, S-115, S-116, S-119, S-120, S-127, S-128, S-129, S-130, S-200, S-201, S-206, S-207, S-208, S-209, S-210, S-211, S-212, S-213, S-214, S-215, S-216, S-217, S-218, S-219, S-220, S-221, S-222, S-203, S-204, S-225, S-300, S-301, S-302, S-303, S-304, S-305, S-306, S-308, S-309, S-310, S-311, S-312, S-313, S-314, S-315, S-316, S-317, S-318, S-319, S-331, S-332, S-333, S-334, S-335, S-336, S-337, S-338, S-339, S-340, S-401 S-402, S-403, S-680-6, S-680-7, S-680-8, S-680-9	Subcaps for Storage Tanks	VOC	84.69	134.74
FL-003, FL-004,	Subcaps for Flares	NO _x	16.27	17.32
FL-006, FL-501, FL-005	I .		1	

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		CO	84.41	90.11
		VOC	74.9	118.63
		SO ₂	5.30	6.42
F-28, F-100 (#1 Crude, Desalter), F-400, F-500, F-620, F-660 (EPItFlareE, EPItFlareS, West Plant Flare System), F-700, F-820, F-830S, F-850 (S Merox Unit, Tank Farm), F-900, F-1000, F-1200, F-1400, F-1500, F-2000, F-2100, F-2200 (DOT/Ref Splitter, East Plant Alky Splitter), F-2300 (ATS, SWS), F-2400 (FCCU, FCCU Gas Con, FCCU Merox), F-2500, F-2600, F-2700, F-2800 (EP Cool Twr, EP Utilities), F-3700 (HCU, HCU Hot Oil Drum), F-3800, F-3900 (LEU, HCU), F-4000, F-2600N, F-660N, F-660N, F-660 (EPItFlareW), F-680 (WWTP Tanks), F-680W, F-830 (RAIL, West Rack), F-830E, F-830N, F-830W, F-850N, F-850N		VOC	133.40	584.67
F-0670	West Plant Cooling Tower (5)	VOC	0.25	1.10
		PM	0.36	1.58
		PM ₁₀	0.36	1.58

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F-2810	East Plant Cooling Tower (5)	VOC	1.68	7.36
		РМ	2.40	10.52
		PM ₁₀	2.40	10.52
F-3670	No. 2 West Plant Cooling Tower (5)	VOC	0.59	2.57
		PM	0.84	3.69
		PM ₁₀	0.84	3.69
F-0680	F-0680 Open-Top	VOC	23.08	36.23
F-0671	No. 2 API Separator	voc	0.48	0.95
F-0682	Crude Unit Sump	voc	3.27	6.50
F-0683	No. 1 Reformer Sump	VOC	1.66	3.31
F-0684	600 Unit Sump	voc	0.01	0.03
F-0685	R. R. Rack Sump	voc	0.10	0.20
F-0686	Truck Loading Sump	VOC	0.09	0.18
F-0687	Landfarm	voc	2.26	4.50
F-0688	Vacuum Unit Sump	VOC	2.08	4.14
F-0689	Crude Unload Sump	VOC	0.24	0.47
F-3110	No. 2 Reformer Sump	VOC	0.59	1.18
	•		•	

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V-006	No. 1 Reformer Regeneration	со	37.5	1.50
		VOC	1.40	0.06
		Cl ₂	0.40	0.02
V-007	No. 2 Reformer Regeneration	со	5.00	14.02
		VOC	0.04	0.13
		Cl ₂	0.01	0.04
V-010	FCCU Regeneration Vent	NOx	62.69	28.82
		СО	195.47	184.29
		VOC	6.16	14.51
		SO ₂	43.64	52.65
		PM	30.00	69.98
		PM ₁₀	30.00	69.98
		H ₂ SO ₄	13.69	59.96
		O ₃	7.22	31.62
V-008, V-009	Subcaps for Sulfur Plants	NO _x	6.16	14.12
		СО	29.09	116.32
		VOC	12.21	38.43
		SO ₂	48.13	98.22
		PM	0.37	1.58
		PM ₁₀	0.37	1.58
		TRS	2.26	9.94
V-003	A.T.S. Secondary Absorber	SO ₂	0.09	0.01
L-001	Oil Truck Loading Rack	VOC	0.02	0.02
L-002	Gasoline Truck Loading	VOC	16.20	8.30

		SC	D_2	48.13	98.22
		PN	M	0.37	1.58
		PI	M ₁₀	0.37	1.58
		TF	RS	2.26	9.94
V-003	A.T.S. Secondary Absorber	SC	O_2	0.09	0.01
L-001	Oil Truck Loading Rack	· VO	oc	0.02	0.02
L-002	Gasoline Truck Loading Rack) V	OC .	16.20	8.30
L-004	Tank Car Loading Rack	< VC	OC .	0.01	0.01
L-005	Aromatic Rail Load Rad Fugitives	ck vo	OC .	7.56	2.05
VCU-1	Loading Rack Vapor Combustor	NO	O _x	0.88	0.55
	Compasion	CC)	2.52	1.60
		V	OC .	9.60	5.92
Planned Maintenance	e, Startup, and Shutdov	vn (MSS) Em	nission Limita	tions	
Cooling Towers, Combustion Units,	VO	C (6) (8)		4,711.24	99.82
Flares/Vapor Combustor	NO	0 _x (6) (8)		305.53	17.71
Fugitives (5), Loading,	CO	(6) (8)		1,187.84	42.14
Process Vents, Storage Tanks, and	so	o ₂ (6) (8)		894.13	61.54
Wastewater	PM	1 (6) (8)		3.14	0.57
	PM	l ₁₀ (6) (8)		3.14	0.57
	PM	l _{2.5} (6) (8)		3.14	0.57
	H ₂ S	5 (6) (8)		2.65	0.52
	Вег	nzene (6) (8)	(9)	90.70	2.90
	CS	CS ₂ (8)		0.33	0.02

Emission Sources - Maximum Allowable Emission Rates

		COS (8)	1.89	0.11			
Standard Permit (SP) sources incorporated by reference. Sources remain authorized by the SP(s) as listed below:							
Registration Numbe	r 83511						
B-010	BTX Boiler	NO _x	5.10	22.34			
		СО	12.31	53.93			
		VOC	1.83	8.03			
		NH₃	1.49	6.55			
		SO ₂	4.55	19.93			
		PM	2.53	11.10			
		PM ₁₀	2.53	11.10			
		PM _{2.5}	2.53	11.10			

- (1) Emission point identification either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

 NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

 PM_{10} - particulate matter equal to or less than 10 microns in diameter $PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter

Cl₂ - chlorine

COS - carbonyl sulfide
CS₂ - carbon disulfide
H₂S - hydrogen sulfide
H₂SO₄ - sulfuric acid
NH₃ - ammonia

TRS - total reduced sulfur

O₃ - ozone

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (6) Planned MSS VOC, NO_x, CO, SO₂, PM₁₀, H₂S, and Benzene allowable emissions are NOT included in the Emission Caps (Normal Operations) allowable emissions.

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Emission Sources - Maximum Allowable Emission Rates

- (7) The MSS emission rates from January 1, 2010 through December 31, 2010, shall be the sum of the monthly MSS emissions for calendar year (CY) 2010. The MSS emissions for this period shall not include the MSS emissions prior to January 1, 2010. Beginning January 1, 2011, MSS emissions shall be based on a rolling 12-month period.
- (8) The MSS emission rates beginning January 1, 2012 through December 31, 2012, shall be the sum of the monthly MSS emissions for CY 2012. The MSS emissions for this period shall not include the MSS emissions prior to January 1, 2012. Beginning January 1, 2013, MSS emissions shall be based on a rolling 12-month period.
- (9) Benzene MSS allowables are included in the VOC allowables.
- (10) Ammonia fugitive allowable emissions are specified by EPN.
- (11) These emission caps have been carried forward from the flexible permit and do not include MSS emissions. The caps have been lowered to equal the sum of the normal operation individual limits and subcaps. The caps do not include emissions from EPN B-010, incorporated by reference from Standard Permit 83511.

Dated: March 11, 2013