



## **O. Reg. 530/18: Air Pollution – Discharge of Sulphur Dioxide from Petroleum Facilities**

**Sarnia Refinery, Imperial**

**O.Reg. 530/18 s.6(4) Public Report for 2019**

## Introduction

This report is being made pursuant to section 6.(4) of O.Reg 530/18, and provides a public posting of the amount of sulphur dioxide discharged from acid gas equipment when the SRU fails to operate in a normal manner.

See below table of the hourly discharge of sulphur dioxide as well as the rolling preceding 24- hour sum of sulphur dioxide discharged for all required periods in the reporting year.

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Period	Date	Hourly SO2 Discharged (kg)	Rolling preceding 24-hr sum of SO2 discharged (kg)
<b>1</b>	18-Jul-19 17:00	426	426
	18-Jul-19 18:00	1144	1569
	18-Jul-19 19:00	1190	2759
	18-Jul-19 20:00	1037	3796
	18-Jul-19 21:00	881	4677
	18-Jul-19 22:00	838	5515
	18-Jul-19 23:00	958	6474
	19-Jul-19 00:00	1153	7626
	19-Jul-19 01:00	988	8614
	19-Jul-19 02:00	1105	9719
	19-Jul-19 03:00	1079	10798
	19-Jul-19 04:00	1106	11904
	19-Jul-19 05:00	1080	12984
	19-Jul-19 06:00	1102	14085
	19-Jul-19 07:00	1099	15185
	19-Jul-19 08:00	1086	16270
	19-Jul-19 09:00	1108	17378
	19-Jul-19 10:00	1101	18480
	19-Jul-19 11:00	1161	19641
	19-Jul-19 12:00	1152	20793
	19-Jul-19 13:00	1106	21898
	19-Jul-19 14:00	1134	23033
	19-Jul-19 15:00	1143	24176
	19-Jul-19 16:00	405	24581
	19-Jul-19 17:00	0	24155
	19-Jul-19 18:00	0	23011
	19-Jul-19 19:00	0	21821
	19-Jul-19 20:00	0	20785
	19-Jul-19 21:00	0	19903
	19-Jul-19 22:00	0	19065
	19-Jul-19 23:00	0	18107
	20-Jul-19 00:00	0	16954
	20-Jul-19 01:00	0	15967
	20-Jul-19 02:00	0	14861
	20-Jul-19 03:00	0	13783
	20-Jul-19 04:00	0	12677
	20-Jul-19 05:00	0	11597
	20-Jul-19 06:00	0	10495
	20-Jul-19 07:00	0	9396
	20-Jul-19 08:00	0	8310
	20-Jul-19 09:00	0	7202
	20-Jul-19 10:00	0	6101
	20-Jul-19 11:00	0	4940
	20-Jul-19 12:00	0	3788
	20-Jul-19 13:00	0	2682
	20-Jul-19 14:00	0	1548
	20-Jul-19 15:00	0	405
	<b>2</b>	26-Jul-19 01:00	281
26-Jul-19 02:00		0	281
26-Jul-19 03:00		0	281
26-Jul-19 04:00		0	281
26-Jul-19 05:00		0	281
26-Jul-19 06:00		0	281
26-Jul-19 07:00		0	281
26-Jul-19 08:00		0	281
26-Jul-19 09:00		0	281
26-Jul-19 10:00		0	281
26-Jul-19 11:00		0	281
26-Jul-19 12:00		0	281

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Period	Date	Hourly SO2 Discharged (kg)	Rolling preceding 24-hr sum of SO2 discharged (kg)
	26-Jul-19 13:00	0	281
	26-Jul-19 14:00	0	281
	26-Jul-19 15:00	0	281
	26-Jul-19 16:00	0	281
	26-Jul-19 17:00	0	281
	26-Jul-19 18:00	0	281
	26-Jul-19 19:00	812	1092
	26-Jul-19 20:00	1148	2240
	26-Jul-19 21:00	1585	3825
	26-Jul-19 22:00	1042	4867
	26-Jul-19 23:00	0	4867
	27-Jul-19 00:00	0	4867
	27-Jul-19 01:00	0	4586
	27-Jul-19 02:00	0	4586
	27-Jul-19 03:00	0	4586
	27-Jul-19 04:00	0	4586
	27-Jul-19 05:00	0	4586
	27-Jul-19 06:00	0	4586
	27-Jul-19 07:00	0	4586
	27-Jul-19 08:00	0	4586
	27-Jul-19 09:00	0	4586
	27-Jul-19 10:00	0	4586
	27-Jul-19 11:00	0	4586
	27-Jul-19 12:00	0	4586
	27-Jul-19 13:00	0	4586
	27-Jul-19 14:00	0	4586
	27-Jul-19 15:00	1025	5611
	27-Jul-19 16:00	459	6070
	27-Jul-19 17:00	0	6070
	27-Jul-19 18:00	0	6070
	27-Jul-19 19:00	0	5259
	27-Jul-19 20:00	0	4111
	27-Jul-19 21:00	0	2526
	27-Jul-19 22:00	0	1484
	27-Jul-19 23:00	0	1484
	28-Jul-19 00:00	0	1484
	28-Jul-19 01:00	0	1484
	28-Jul-19 02:00	0	1484
	28-Jul-19 03:00	0	1484
	28-Jul-19 04:00	0	1484
	28-Jul-19 05:00	0	1484
	28-Jul-19 06:00	0	1484
	28-Jul-19 07:00	0	1484
	28-Jul-19 08:00	0	1484
	28-Jul-19 09:00	0	1484
	28-Jul-19 10:00	0	1484
	28-Jul-19 11:00	0	1484
	28-Jul-19 12:00	0	1484
	28-Jul-19 13:00	0	1484
	28-Jul-19 14:00	0	1484
	28-Jul-19 15:00	0	459
<b>3</b>	29-Jul-19 18:00	1753	1753
	29-Jul-19 19:00	1655	3409
	29-Jul-19 20:00	691	4100
	29-Jul-19 21:00	0	4100
	29-Jul-19 22:00	0	4100
	29-Jul-19 23:00	0	4100
	30-Jul-19 00:00	0	4100
	30-Jul-19 01:00	0	4100

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Period	Date	Hourly SO2 Discharged (kg)	Rolling preceding 24-hr sum of SO2 discharged (kg)
	30-Jul-19 02:00	0	4100
	30-Jul-19 03:00	0	4100
	30-Jul-19 04:00	0	4100
	30-Jul-19 05:00	0	4100
	30-Jul-19 06:00	0	4100
	30-Jul-19 07:00	0	4100
	30-Jul-19 08:00	0	4100
	30-Jul-19 09:00	0	4100
	30-Jul-19 10:00	0	4100
	30-Jul-19 11:00	0	4100
	30-Jul-19 12:00	0	4100
	30-Jul-19 13:00	0	4100
	30-Jul-19 14:00	0	4100
	30-Jul-19 15:00	0	4100
	30-Jul-19 16:00	0	4100
	30-Jul-19 17:00	0	4100
	30-Jul-19 18:00	0	2346
	30-Jul-19 19:00	0	691
<b>4</b>	09-Aug-19 17:00	231	231
	09-Aug-19 18:00	873	1104
	09-Aug-19 19:00	493	1597
	09-Aug-19 20:00	0	1597
	09-Aug-19 21:00	0	1597
	09-Aug-19 22:00	0	1597
	09-Aug-19 23:00	0	1597
	10-Aug-19 00:00	0	1597
	10-Aug-19 01:00	0	1597
	10-Aug-19 02:00	0	1597
	10-Aug-19 03:00	0	1597
	10-Aug-19 04:00	0	1597
	10-Aug-19 05:00	0	1597
	10-Aug-19 06:00	0	1597
	10-Aug-19 07:00	0	1597
	10-Aug-19 08:00	0	1597
	10-Aug-19 09:00	0	1597
	10-Aug-19 10:00	0	1597
	10-Aug-19 11:00	0	1597
	10-Aug-19 12:00	0	1597
	10-Aug-19 13:00	0	1597
	10-Aug-19 14:00	0	1597
	10-Aug-19 15:00	0	1597
	10-Aug-19 16:00	0	1597
	10-Aug-19 17:00	0	1366
	10-Aug-19 18:00	0	493
	10-Aug-19 19:00	576	576
	10-Aug-19 20:00	1005	1582
	10-Aug-19 21:00	1401	2983
	10-Aug-19 22:00	287	3271
	10-Aug-19 23:00	0	3271
	11-Aug-19 00:00	0	3271
	11-Aug-19 01:00	0	3271
	11-Aug-19 02:00	0	3271
	11-Aug-19 03:00	0	3271
	11-Aug-19 04:00	0	3271
	11-Aug-19 05:00	0	3271
	11-Aug-19 06:00	0	3271
	11-Aug-19 07:00	0	3271
	11-Aug-19 08:00	0	3271
	11-Aug-19 09:00	0	3271

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Period	Date	Hourly SO2 Discharged (kg)	Rolling preceding 24-hr sum of SO2 discharged (kg)
	11-Aug-19 10:00	0	3271
	11-Aug-19 11:00	0	3271
	11-Aug-19 12:00	0	3271
	11-Aug-19 13:00	0	3271
	11-Aug-19 14:00	0	3271
	11-Aug-19 15:00	0	3271
	11-Aug-19 16:00	0	3271
	11-Aug-19 17:00	0	3271
	11-Aug-19 18:00	0	3271
	11-Aug-19 19:00	0	2694
	11-Aug-19 20:00	0	1689
	11-Aug-19 21:00	0	287
<b>5</b>	18-Aug-19 13:00	1819	1819
	18-Aug-19 14:00	2296	4116
	18-Aug-19 15:00	2264	6380
	18-Aug-19 16:00	1710	8089
	18-Aug-19 17:00	0	8089
	18-Aug-19 18:00	0	8089
	18-Aug-19 19:00	0	8089
	18-Aug-19 20:00	0	8089
	18-Aug-19 21:00	0	8089
	18-Aug-19 22:00	0	8089
	18-Aug-19 23:00	0	8089
	19-Aug-19 00:00	0	8089
	19-Aug-19 01:00	0	8089
	19-Aug-19 02:00	0	8089
	19-Aug-19 03:00	0	8089
	19-Aug-19 04:00	0	8089
	19-Aug-19 05:00	0	8089
	19-Aug-19 06:00	0	8089
	19-Aug-19 07:00	0	8089
	19-Aug-19 08:00	0	8089
	19-Aug-19 09:00	0	8089
	19-Aug-19 10:00	0	8089
	19-Aug-19 11:00	0	8089
	19-Aug-19 12:00	0	8089
	19-Aug-19 13:00	0	6270
	19-Aug-19 14:00	0	3974
	19-Aug-19 15:00	0	1710
<b>6</b>	20-Aug-19 14:00	509	509
	20-Aug-19 15:00	2588	3096
	20-Aug-19 16:00	2535	5632
	20-Aug-19 17:00	432	6064
	20-Aug-19 18:00	0	6064
	20-Aug-19 19:00	0	6064
	20-Aug-19 20:00	0	6064
	20-Aug-19 21:00	0	6064
	20-Aug-19 22:00	0	6064
	20-Aug-19 23:00	0	6064
	21-Aug-19 00:00	0	6064
	21-Aug-19 01:00	0	6064
	21-Aug-19 02:00	0	6064
	21-Aug-19 03:00	0	6064
	21-Aug-19 04:00	0	6064
	21-Aug-19 05:00	0	6064
	21-Aug-19 06:00	0	6064
	21-Aug-19 07:00	0	6064
	21-Aug-19 08:00	0	6064
	21-Aug-19 09:00	0	6064

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	21-Aug-19 10:00	0	6064
	21-Aug-19 11:00	0	6064
	21-Aug-19 12:00	0	6064
	21-Aug-19 13:00	0	6064
	21-Aug-19 14:00	0	5555
	21-Aug-19 15:00	0	2968
	21-Aug-19 16:00	0	432
<b>7</b>	22-Aug-19 10:00	17	17
	22-Aug-19 11:00	0	17
	22-Aug-19 12:00	0	17
	22-Aug-19 13:00	770	787
	22-Aug-19 14:00	0	787
	22-Aug-19 15:00	0	787
	22-Aug-19 16:00	0	787
	22-Aug-19 17:00	0	787
	22-Aug-19 18:00	0	787
	22-Aug-19 19:00	805	1592
	22-Aug-19 20:00	1803	3395
	22-Aug-19 21:00	2137	5532
	22-Aug-19 22:00	1055	6587
	22-Aug-19 23:00	357	6944
	23-Aug-19 00:00	0	6944
	23-Aug-19 01:00	0	6944
	23-Aug-19 02:00	0	6944
	23-Aug-19 03:00	0	6944
	23-Aug-19 04:00	0	6944
	23-Aug-19 05:00	0	6944
	23-Aug-19 06:00	0	6944
	23-Aug-19 07:00	0	6944
	23-Aug-19 08:00	0	6944
	23-Aug-19 09:00	0	6944
	23-Aug-19 10:00	0	6927
	23-Aug-19 11:00	0	6927
	23-Aug-19 12:00	0	6927
	23-Aug-19 13:00	0	6157
	23-Aug-19 14:00	0	6157
	23-Aug-19 15:00	0	6157
	23-Aug-19 16:00	0	6157
	23-Aug-19 17:00	0	6157
	23-Aug-19 18:00	0	6157
	23-Aug-19 19:00	0	5351
	23-Aug-19 20:00	0	3549
	23-Aug-19 21:00	0	1412
	23-Aug-19 22:00	0	357
<b>8</b>	24-Aug-19 03:00	1730	1730
	24-Aug-19 04:00	1920	3650
	24-Aug-19 05:00	1946	5596
	24-Aug-19 06:00	1648	7243
	24-Aug-19 07:00	1692	8935
	24-Aug-19 08:00	1976	10911
	24-Aug-19 09:00	433	11344
	24-Aug-19 10:00	0	11344
	24-Aug-19 11:00	647	11992
	24-Aug-19 12:00	1774	13765
	24-Aug-19 13:00	1731	15497
	24-Aug-19 14:00	2045	17542
	24-Aug-19 15:00	2338	19879
	24-Aug-19 16:00	2340	22219
	24-Aug-19 17:00	1777	23996

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Period	Date	Hourly SO2 Discharged (kg)	Rolling preceding 24-hr sum of SO2 discharged (kg)
	24-Aug-19 18:00	1817	25813
	24-Aug-19 19:00	1852	27665
	24-Aug-19 20:00	1750	29415
	24-Aug-19 21:00	1074	30490
	24-Aug-19 22:00	179	30669
	24-Aug-19 23:00	0	30669
	25-Aug-19 00:00	0	30669
	25-Aug-19 01:00	0	30669
	25-Aug-19 02:00	0	30669
	25-Aug-19 03:00	0	28939
	25-Aug-19 04:00	0	27019
	25-Aug-19 05:00	0	25073
	25-Aug-19 06:00	0	23426
	25-Aug-19 07:00	0	21734
	25-Aug-19 08:00	0	19758
	25-Aug-19 09:00	0	19325
	25-Aug-19 10:00	0	19325
	25-Aug-19 11:00	0	18677
	25-Aug-19 12:00	0	16904
	25-Aug-19 13:00	0	15172
	25-Aug-19 14:00	0	13127
	25-Aug-19 15:00	0	10789
	25-Aug-19 16:00	0	8449
	25-Aug-19 17:00	0	6673
	25-Aug-19 18:00	0	4856
	25-Aug-19 19:00	0	3004
	25-Aug-19 20:00	0	1253
	25-Aug-19 21:00	0	179
<b>9</b>	23-Oct-19 17:00	578	578
	23-Oct-19 18:00	0	578
	23-Oct-19 19:00	0	578
	23-Oct-19 20:00	0	578
	23-Oct-19 21:00	0	578
	23-Oct-19 22:00	0	578
	23-Oct-19 23:00	0	578
	24-Oct-19 00:00	0	578
	24-Oct-19 01:00	0	578
	24-Oct-19 02:00	0	578
	24-Oct-19 03:00	0	578
	24-Oct-19 04:00	0	578
	24-Oct-19 05:00	0	578
	24-Oct-19 06:00	0	578
	24-Oct-19 07:00	0	578
	24-Oct-19 08:00	0	578
	24-Oct-19 09:00	0	578
	24-Oct-19 10:00	0	578
	24-Oct-19 11:00	0	578
	24-Oct-19 12:00	0	578
	24-Oct-19 13:00	0	578
	24-Oct-19 14:00	0	578
	24-Oct-19 15:00	0	578
	24-Oct-19 16:00	0	578