

TSG Report - Attachment E

FACILITY_NAME	ORISPL_CODE	UNITID	Mean Operating Hours - O3 Days
59th Street	2503	CT0001	9.81
74th Street	2504	CT0001	4.00
74th Street	2504	CT0002	5.44
Astoria Gas Turbine Power	55243	CT0005	5.42
Astoria Gas Turbine Power	55243	CT0007	5.25
Astoria Gas Turbine Power	55243	CT0008	3.88
Astoria Gas Turbine Power	55243	CT0010	4.10
Astoria Gas Turbine Power	55243	CT0011	4.30
Astoria Gas Turbine Power	55243	CT0012	5.10
Astoria Gas Turbine Power	55243	CT0013	2.81
Astoria Gas Turbine Power	55243	CT2-1A	6.17
Astoria Gas Turbine Power	55243	CT2-1B	6.17
Astoria Gas Turbine Power	55243	CT2-2A	5.70
Astoria Gas Turbine Power	55243	CT2-2B	5.70
Astoria Gas Turbine Power	55243	CT2-3A	5.68
Astoria Gas Turbine Power	55243	CT2-3B	5.68
Astoria Gas Turbine Power	55243	CT2-4A	5.74
Astoria Gas Turbine Power	55243	CT2-4B	5.74
Astoria Gas Turbine Power	55243	CT3-1A	7.17
Astoria Gas Turbine Power	55243	CT3-1B	7.17
Astoria Gas Turbine Power	55243	CT3-2A	6.97
Astoria Gas Turbine Power	55243	CT3-2B	6.97
Astoria Gas Turbine Power	55243	CT3-3A	6.60
Astoria Gas Turbine Power	55243	CT3-3B	6.60
Astoria Gas Turbine Power	55243	CT3-4A	5.14
Astoria Gas Turbine Power	55243	CT3-4B	4.97
Astoria Gas Turbine Power	55243	CT4-1A	6.54
Astoria Gas Turbine Power	55243	CT4-1B	6.54
Astoria Gas Turbine Power	55243	CT4-2A	5.29
Astoria Gas Turbine Power	55243	CT4-2B	5.29
Astoria Gas Turbine Power	55243	CT4-3A	5.14
Astoria Gas Turbine Power	55243	CT4-3B	5.14
Astoria Gas Turbine Power	55243	CT4-4A	5.86
Astoria Gas Turbine Power	55243	CT4-4B	5.86
Gowanus	2494	CT01-1	7.23
Gowanus	2494	CT01-2	6.69
Gowanus	2494	CT01-3	7.17
Gowanus	2494	CT01-4	7.60
Gowanus	2494	CT01-5	8.33
Gowanus	2494	CT01-6	6.80
Gowanus	2494	CT01-7	8.22
Gowanus	2494	CT01-8	7.20
Gowanus	2494	CT02-1	9.35
Gowanus	2494	CT02-2	10.00
Gowanus	2494	CT02-3	8.97
Gowanus	2494	CT02-4	9.44
Gowanus	2494	CT02-5	10.78
Gowanus	2494	CT02-6	11.46

Mean Op Hours - No Zeros

Gowanus	2494	CT02-7	10.70
Gowanus	2494	CT02-8	10.96
Gowanus	2494	CT03-1	10.54
Gowanus	2494	CT03-2	10.18
Gowanus	2494	CT03-3	10.31
Gowanus	2494	CT03-4	11.05
Gowanus	2494	CT03-5	11.35
Gowanus	2494	CT03-6	11.68
Gowanus	2494	CT03-7	11.40
Gowanus	2494	CT03-8	11.50
Gowanus	2494	CT04-1	8.50
Gowanus	2494	CT04-2	8.88
Gowanus	2494	CT04-3	8.70
Gowanus	2494	CT04-4	8.38
Gowanus	2494	CT04-5	9.00
Gowanus	2494	CT04-6	9.11
Gowanus	2494	CT04-7	9.63
Gowanus	2494	CT04-8	9.67
Hudson Avenue	2496	CT0003	6.00
Hudson Avenue	2496	CT0004	7.58
Hudson Avenue	2496	CT0005	8.00
Narrows	2499	CT01-1	13.98
Narrows	2499	CT01-2	13.65
Narrows	2499	CT01-3	14.11
Narrows	2499	CT01-4	13.71
Narrows	2499	CT01-5	14.71
Narrows	2499	CT01-6	15.03
Narrows	2499	CT01-7	14.06
Narrows	2499	CT01-8	13.71
Narrows	2499	CT02-1	15.38
Narrows	2499	CT02-2	15.38
Narrows	2499	CT02-3	14.60
Narrows	2499	CT02-4	14.74
Narrows	2499	CT02-5	14.21
Narrows	2499	CT02-6	15.26
Narrows	2499	CT02-7	14.03
Narrows	2499	CT02-8	14.67
Shoemaker	2632	1	9.38

Mean Op Hours - No Zeros

NOTE: The mean operating hours shown on this worksheet was based on the following formula:

mean = (Sum of Operating Hours)/(number of O3 days unit operated)

Only the days a unit operated were considered. Therefore, the denominator can be significantly less than 52 (total number of O3 days during the 2005-2008 period.)

Mean Op Hours - No Zeros

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FACILITY_NAME	ORISPL_CODE	UNITID	Mean Op Hours
59th Street	2503	CT0001	2.05
74th Street	2504	CT0001	0.28
74th Street	2504	CT0002	0.51
Astoria Gas Turbine Power	55243	CT0005	0.38
Astoria Gas Turbine Power	55243	CT0007	0.37
Astoria Gas Turbine Power	55243	CT0008	0.18
Astoria Gas Turbine Power	55243	CT0010	0.48
Astoria Gas Turbine Power	55243	CT0011	0.50
Astoria Gas Turbine Power	55243	CT0012	0.62
Astoria Gas Turbine Power	55243	CT0013	0.26
Astoria Gas Turbine Power	55243	CT2-1A	2.73
Astoria Gas Turbine Power	55243	CT2-1B	2.73
Astoria Gas Turbine Power	55243	CT2-2A	2.78
Astoria Gas Turbine Power	55243	CT2-2B	2.78
Astoria Gas Turbine Power	55243	CT2-3A	2.77
Astoria Gas Turbine Power	55243	CT2-3B	2.77
Astoria Gas Turbine Power	55243	CT2-4A	2.80
Astoria Gas Turbine Power	55243	CT2-4B	2.80
Astoria Gas Turbine Power	55243	CT3-1A	3.67
Astoria Gas Turbine Power	55243	CT3-1B	3.67
Astoria Gas Turbine Power	55243	CT3-2A	3.56
Astoria Gas Turbine Power	55243	CT3-2B	3.56
Astoria Gas Turbine Power	55243	CT3-3A	3.07
Astoria Gas Turbine Power	55243	CT3-3B	3.07
Astoria Gas Turbine Power	55243	CT3-4A	2.26
Astoria Gas Turbine Power	55243	CT3-4B	2.20
Astoria Gas Turbine Power	55243	CT4-1A	3.50
Astoria Gas Turbine Power	55243	CT4-1B	3.50
Astoria Gas Turbine Power	55243	CT4-2A	2.32
Astoria Gas Turbine Power	55243	CT4-2B	2.32
Astoria Gas Turbine Power	55243	CT4-3A	2.27
Astoria Gas Turbine Power	55243	CT4-3B	2.27
Astoria Gas Turbine Power	55243	CT4-4A	3.27
Astoria Gas Turbine Power	55243	CT4-4B	3.27
Gowanus	2494	CT01-1	2.19
Gowanus	2494	CT01-2	2.02
Gowanus	2494	CT01-3	2.00
Gowanus	2494	CT01-4	1.77
Gowanus	2494	CT01-5	1.74
Gowanus	2494	CT01-6	1.58
Gowanus	2494	CT01-7	1.72
Gowanus	2494	CT01-8	1.67
Gowanus	2494	CT02-1	6.74
Gowanus	2494	CT02-2	6.98
Gowanus	2494	CT02-3	6.26
Gowanus	2494	CT02-4	7.47
Gowanus	2494	CT02-5	6.77
Gowanus	2494	CT02-6	7.47

Mean_Op_Hours

Gowanus	2494	CT02-7	7.47
Gowanus	2494	CT02-8	7.14
Gowanus	2494	CT03-1	6.37
Gowanus	2494	CT03-2	6.63
Gowanus	2494	CT03-3	6.23
Gowanus	2494	CT03-4	5.40
Gowanus	2494	CT03-5	6.07
Gowanus	2494	CT03-6	5.98
Gowanus	2494	CT03-7	6.63
Gowanus	2494	CT03-8	6.95
Gowanus	2494	CT04-1	1.58
Gowanus	2494	CT04-2	1.65
Gowanus	2494	CT04-3	2.02
Gowanus	2494	CT04-4	1.56
Gowanus	2494	CT04-5	1.88
Gowanus	2494	CT04-6	1.91
Gowanus	2494	CT04-7	1.79
Gowanus	2494	CT04-8	2.02
Hudson Avenue	2496	CT0003	1.12
Hudson Avenue	2496	CT0004	1.59
Hudson Avenue	2496	CT0005	1.86
Narrows	2499	CT01-1	13.00
Narrows	2499	CT01-2	12.70
Narrows	2499	CT01-3	12.47
Narrows	2499	CT01-4	11.16
Narrows	2499	CT01-5	11.98
Narrows	2499	CT01-6	12.58
Narrows	2499	CT01-7	10.14
Narrows	2499	CT01-8	10.84
Narrows	2499	CT02-1	12.16
Narrows	2499	CT02-2	12.16
Narrows	2499	CT02-3	10.19
Narrows	2499	CT02-4	10.63
Narrows	2499	CT02-5	11.23
Narrows	2499	CT02-6	12.42
Narrows	2499	CT02-7	11.42
Narrows	2499	CT02-8	9.21
Shoemaker	2632	1	2.29

Mean_Op_Hours

$\text{mean} = (\text{Total Number of Hours Operation}) / (\text{number of data entries for turbine})$

Note: number of ozone days 2005-2008 = 52

However, there were cases where there were no data entries for some turbines on some O3 days. Therefore, the numerator for some turbines was less than 52.

Mean_Op_Hours

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FACILITY_NAME	ORISPL_ CODE	UNIT_ID	Electrical Output (MW)	NOx lb per hr	PM10 lb per hr
ASTORIA GAS TURBINE POWER	55243	CT0005	19.2	92.25	2.868
ASTORIA GAS TURBINE POWER	55243	CT0007	19.2	92.25	2.868
ASTORIA GAS TURBINE POWER	55243	CT0008	19.2	92.25	2.868
ASTORIA GAS TURBINE POWER	55243	CT0010	21	133.17	4.14
ASTORIA GAS TURBINE POWER	55243	CT0011	21	133.17	4.14
ASTORIA GAS TURBINE POWER	55243	CT0012	21	133.17	4.14
ASTORIA GAS TURBINE POWER	55243	CT0013	21	133.17	4.14
ASTORIA GAS TURBINE POWER	55243	CT2-1A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-1B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-2A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-2B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-3A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-3B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-4A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT2-4B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-1A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-1B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-2A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-2B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-3A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-3B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-4A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT3-4B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-1A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-1B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-2A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-2B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-3A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-3B	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-4A	46.5	98.43	3.06
ASTORIA GAS TURBINE POWER	55243	CT4-4B	46.5	98.43	3.06
SHOEMAKER	2632	1	41.9	266.05	3.5995
59TH STREET	2503	CT0001	17.1	128.26	14.3
74TH STREET	2504	CT0001	18.5	172.16	5.798
74TH STREET	2504	CT0002	18.5	172.16	5.798
HUDSON AVENUE	2496	CT0003	16.3	120.79	20.21
HUDSON AVENUE	2496	CT0004	16.3	120.79	20.21
HUDSON AVENUE	2496	CT0005	16.3	120.79	20.21
NARROWS	2499	CT01-1	22	207.31	3.564
NARROWS	2499	CT01-2	22	207.31	3.564
NARROWS	2499	CT01-3	22	207.31	3.564
NARROWS	2499	CT01-4	22	207.31	3.564
NARROWS	2499	CT01-5	22	207.31	3.564
NARROWS	2499	CT01-6	22	207.31	3.564
NARROWS	2499	CT01-7	22	207.31	3.564
NARROWS	2499	CT01-8	22	207.31	3.564
NARROWS	2499	CT02-1	22	207.31	3.564

Unit_Output

NARROWS	2499	CT02-2	22	207.31	3.564
NARROWS	2499	CT02-3	22	207.31	3.564
NARROWS	2499	CT02-4	22	207.31	3.564
NARROWS	2499	CT02-5	22	207.31	3.564
NARROWS	2499	CT02-6	22	207.31	3.564
NARROWS	2499	CT02-7	22	207.31	3.564
NARROWS	2499	CT02-8	22	207.31	3.564
GOWANUS	2494	CT01-1	22	182.99	3.588
GOWANUS	2494	CT01-2	22	182.99	3.588
GOWANUS	2494	CT01-3	22	182.99	3.588
GOWANUS	2494	CT01-4	22	182.99	3.588
GOWANUS	2494	CT01-5	22	182.99	3.588
GOWANUS	2494	CT01-6	22	182.99	3.588
GOWANUS	2494	CT01-7	22	182.99	3.588
GOWANUS	2494	CT01-8	22	182.99	3.588
GOWANUS	2494	CT02-1	22	131.56	3.588
GOWANUS	2494	CT02-2	22	131.56	3.588
GOWANUS	2494	CT02-3	22	131.56	3.588
GOWANUS	2494	CT02-4	22	131.56	3.588
GOWANUS	2494	CT02-5	22	131.56	3.588
GOWANUS	2494	CT02-6	22	131.56	3.588
GOWANUS	2494	CT02-7	22	131.56	3.588
GOWANUS	2494	CT02-8	22	131.56	3.588
GOWANUS	2494	CT03-1	20	131.56	3.588
GOWANUS	2494	CT03-2	20	131.56	3.588
GOWANUS	2494	CT03-3	20	131.56	3.588
GOWANUS	2494	CT03-4	20	131.56	3.588
GOWANUS	2494	CT03-5	20	131.56	3.588
GOWANUS	2494	CT03-6	20	131.56	3.588
GOWANUS	2494	CT03-7	20	131.56	3.588
GOWANUS	2494	CT03-8	20	131.56	3.588
GOWANUS	2494	CT04-1	20	182.99	3.588
GOWANUS	2494	CT04-2	20	182.99	3.588
GOWANUS	2494	CT04-3	20	182.99	3.588
GOWANUS	2494	CT04-4	20	182.99	3.588
GOWANUS	2494	CT04-5	20	182.99	3.588
GOWANUS	2494	CT04-6	20	182.99	3.588
GOWANUS	2494	CT04-7	20	182.99	3.588
GOWANUS	2494	CT04-8	20	182.99	3.588