



**Volatile Organic Compound
Compliance Report**

**Consumers Energy
Covert Generating Station
EUTURBINE1/DB1, EUTURBINE2/DB2, and
EUTURBINE3/DB3 Stacks
Covert, Michigan
September 13 through 15, 2023**

**Report Submittal Date
November 10, 2023**

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Project No. M233711D



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1.0 EXECUTIVE SUMMARY

Mostardi Platt conducted a compliance emissions test program for Consumers Energy at the Covert Generating Station in Covert, Michigan, on the EUTURBINE1/DB1, EUTURBINE2/DB2, and EUTURBINE3/DB3 Stacks from September 13 through 15, 2023. This report summarizes the results of the test program and test methods used. The test locations, test dates, and test parameters are summarized below.

TEST INFORMATION		
Test Location	Test Date	Test Parameters
EUTURBINE1/DB1 Stack	September 13, 2023	Non-Methane Non-Ethane Volatile Organic Compounds (NMNE VOC), Methane (CH ₄), and Ethane (C ₂ H ₆)
EUTURBINE2/DB2 Stack	September 14, 2023	
EUTURBINE3/DB3 Stack	September 15, 2023	

Consumers Energy owns and operates the Covert Generating Station located at 26000 77th Street in Covert, Michigan. The facility consists of three natural gas-fired Mitsubishi 501G turbines with heat recovery steam generators (HRSGs), designated as EU-TURBINE1, EU-TURBINE2, and EU-TURBINE3. Each HRSG contains a duct burner designated as EU-DB1, EU-DB2, and EU-DB3, respectively, to provide additional steam generating capability and increase the maximum power generating capability of the HRSG. Each duct burner is rated at approximately 256 million British thermal units per hour (MMBtu/hr). Each turbine and duct burner set are equipped with a dry low-NO_x combustor, and each HRSG is equipped with a selective catalytic reduction (SCR) system and an oxidation catalyst to control NO_x and CO emissions.

The stacks are circular and measure 22.1 feet (ft) (265 inches) in diameter at the test ports which are approximately 140 ft above grade level with an exit elevation of approximately 160 ft above grade level. The test ports are located approximately 85 ft (1020 inches) downstream and approximately 20 ft (240 inches) upstream from the nearest disturbances.

A single, dedicated CEMS is installed at each unit. The CEMS configuration includes a NO_x analyzer, a CO analyzer, a diluent gas O₂ monitor for measurements at the outlet stack, and a data acquisition and handling system (DAHS).

The purpose of the test program was to demonstrate total non-methane, non-ethane hydrocarbon emissions on the EUTURBINE2/DB1, EUTURBINE2/DB2, and EUTURBINE3/DB3 stacks. Selected results of the test program are summarized below. A complete summary of emission test results follows the narrative portion of this report.

TEST RESULTS				
Test Location	Test Parameter	Test Condition	Emission Limit	Emission Rate
EUTURBINE1/DB1 Stack	NMNE VOC	Full Load Duct Burners On	1.0 ppmv dry as CH ₄ @ 15% O ₂	0.1 ppmv dry as CH ₄ @ 15% O ₂
EUTURBINE3/DB3 Stack				0.1 ppmv dry as CH ₄ @ 15% O ₂
EUTURBINE2/DB2 Stack	NMNE VOC	Derated	1.0 ppmv dry as CH ₄ @ 15% O ₂	0.2 ppmv dry as CH ₄ @ 15% O ₂

The identification of individuals associated with the test program is summarized below.

TEST PERSONNEL INFORMATION		
Location	Address	Contact
Test Facility	Consumers Energy Covert Generating Station 26000 77 th Street Covert, Michigan 49043	Chris Head Operations Manager (269) 764-3805 (phone) chris.head@cmsenergy.com
Testing Company Supervisor	Mostardi Platt 888 Industrial Drive Elmhurst, Illinois 60126	Damian P. Panek Project Manager 630-993-2100 (phone) dpanek@mp-mail.com

The test program was conducted by R. Gartner and D. Panek of Mostardi Platt.

2.0 TEST METHODOLOGY

Emission testing was conducted following the methods specified in 40 CFR, Part 60, Appendix A, and 40 CFR, Part 63, Appendix A. Schematics of the test section diagrams and sampling trains used are included in Appendix B and C, respectively. Calculation examples and nomenclature are included in Appendix D. Copies of analyzer print-outs for each test run are included in Appendix E.

The following methodologies were used during the test program:

Method 3A Oxygen (O₂) Determination

Flue gas O₂ data was collected during the concurrent CEMS RATAs in accordance with Method 3A to correct the VOC concentrations to 15% O₂, with three 21-minute RATA runs aggregated to comprise one VOC test run. A Servomex analyzer was used to determine stack gas oxygen content on a dry basis and was connected to the outlet of a gas conditioner after exiting the FTIR analyzer.

Stack gas was delivered to the analyzer via a Teflon® sampling line, heated to a minimum temperature of 375°F. The entire system was calibrated in accordance with the Method, using certified calibration gases introduced at the probe, before and after each test run.

All of the equipment used was calibrated in accordance with the specifications of the Method and calibration data are included in Appendix F. Copies of the gas cylinder certifications are included in Appendix G.

Method 25A Volatile Organic Compound (VOC) Determination

VOC concentrations and emission rates were determined in accordance with Method 25A. A California Analytical Instruments 700LX heated flame ionization detector (HFID) analyzer was used to determine total hydrocarbon (THC) concentrations, while Method 320 was performed simultaneously to subtract CH₄ and C₂H₆ concentrations to determine VOC. Stack gas was delivered to the system via a Teflon® sampling line, heated to a minimum temperature of 300°F. Sample was delivered first to the Method 320 FTIR analyzer, with the Method 25A HFID analyzer connected to the exhaust of the FTIR analyzer.

The system was calibrated before and after each test run using certified calibration gases of methane for the THC determination. Methane and ethane concentrations were then subtracted based upon the simultaneous data collected and recorded by the FTIR analyzer. The Method 25A VOC data was not calibration corrected as the method does not require this.

A list of calibration gases used and the results of all calibration and other required quality assurance checks can be found in Appendix F. Copies of calibration gas certifications can be found in Appendix G.

Method 320 Fourier Transform Infrared (FTIR) Detector Multi-Gas Determination of Methane (CH₄), Ethane (C₂H₆) and Moisture (H₂O)

The Method 320 sampling and measurement system meets the requirements of US EPA Reference Method 320, "Vapor Phase Organic and Inorganic Emissions by Extractive FTIR," 40CFR63, Appendix A. This method applies to the measurement of methane, ethane, and moisture concentrations. USEPA Method 4, 40CFR60, specifies method 320 as an acceptable alternative for moisture determination.

With this method, gas samples are extracted from the sample locations through heated Teflon sample lines to the analyzers. FTIR technology works on the principle that most gases absorb infrared light. This is true for all compounds with the exception of homonuclear diatomic molecules and noble gases such as: N₂, O₂, H₂, He, Ne, and Ar. Vibrations, stretches, bends, and rotations within the bonds of a molecule determine the infrared absorption distinctiveness. The absorption creates a "fingerprint" which is unique to each given compound. The quantity of infrared light absorbed is proportional to the gas concentration. Most compounds have absorbencies at different infrared frequencies, thus allowing the simultaneous analysis of multiple compounds at one time. The FTIR software compares each sample spectrum to a user selected list of calibration references and concentration data is generated.

FTIR data was collected using an MKS MultiGas 2030 FTIR spectrometer. Spiking was performed following each test run to verify the ability of the sampling system to quantitatively deliver a sample containing volatile organic compounds from the base of the probe to the FTIR. Analyte spiking assures the ability of the FTIR to quantify analytes of interest in the presence of effluent gas. All analyte spikes were introduced using an instrument grade stainless steel rotameter. All QA/QC procedures were within the acceptance criteria allowance of Method 320. Instrument resolution of 0.5 cm⁻¹ was utilized for testing performed on all three units. All of the equipment used was calibrated in accordance with the specifications of the Method. Calibration data and pre-testing single beam spectrum are presented in Appendix F.

Methane and ethane concentrations were subtracted from the total hydrocarbon emissions to determine non-methane non-ethane volatile organic emissions from each unit. Moisture numbers were used to calculate emissions on a dry basis.

3.0 TEST RESULT SUMMARIES

Consumers Energy Covert Generating Station Unit 001 VOC Summary - Full Load With Duct Burners								
Test No.	Date	Start Time	End Time	H ₂ O (%v)	O ₂ (%v dry)	THC* ppm as CH ₄ (wet)	VOC** ppm as CH ₄ (dry)	VOC ppmv dry as CH ₄ @ 15% O ₂
1	09/13/23	8:45	10:21	8.42%	12.4	0.2	0.2	0.1
2	09/13/23	10:47	12:19	8.41%	12.5	0.2	0.2	0.1
3	09/13/23	12:42	14:15	8.31%	12.5	0.2	0.2	0.1
Average				8.38%	12.5	0.2	0.2	0.1

*A detection limit of 0.2 ppm was used for THC concentration below detection

**Methane and Ethane values were below detection and were not used to calculate non-methane and non-ethane VOC concentrations

Consumers Energy Covert Generating Station Unit 002 VOC Summary - Derated								
Test No.	Date	Start Time	End Time	H ₂ O (%v)	O ₂ (%v dry)	THC* ppm as CH ₄ (wet)	VOC** ppm as CH ₄ (dry)	VOC ppmv dry as CH ₄ @ 15% O ₂
1	09/14/23	8:35	10:09	7.90%	13.5	0.2	0.2	0.2
2	09/14/23	10:29	12:02	7.88%	13.5	0.2	0.2	0.2
3	09/14/23	12:26	13:57	7.87%	13.5	0.2	0.2	0.2
Average				7.88%	13.5	0.2	0.2	0.2

*A detection limit of 0.2 ppm was used for THC concentration below detection

**Methane and Ethane values were below detection and were not used to calculate non-methane and non-ethane VOC concentrations

Consumers Energy Covert Generating Station Unit 003 VOC Summary - Full Load With Duct Burners								
Test No.	Date	Start Time	End Time	H ₂ O (%v)	O ₂ (%v dry)	THC* ppm as CH ₄ (wet)	VOC** ppm as CH ₄ (dry)	VOC ppmv dry as CH ₄ @ 15% O ₂
1	09/15/23	8:50	10:21	8.62%	12.5	0.2	0.2	0.1
2	09/15/23	10:44	12:17	8.58%	12.6	0.2	0.2	0.1
3	09/15/23	12:39	14:12	8.50%	12.6	0.2	0.2	0.1
Average				8.57%	12.6	0.2	0.2	0.1

*A detection limit of 0.2 ppm was used for THC concentration below detection

**Methane and Ethane values were below detection and were not used to calculate non-methane and non-ethane VOC concentrations

4.0 CERTIFICATION

Mostardi Platt is pleased to have been of service to Consumers Energy. If you have any questions regarding this test report, please do not hesitate to contact us at 630-993-2100.

As project manager, I hereby certify that this test report represents a true and accurate summary of emissions test results and the methodologies employed to obtain those results, and the test program was performed in accordance with the methods specified in this test report.

MOSTARDI PLATT



Damian P. Panek

Program Manager



Benjamin W. Hendricks

Quality Assurance

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APPENDICES

Appendix A - Plant Operating Data

VOC Run Detail Report

Plant: NCG Test: B/13/2023 2:15:00 PM Operating Level: H
 Source: UNIT01 Parameter: NOX/PM Run Number: 1, Parts 1-3

Date/Time	NOX/PM	LOAD	COBHR	COBMM	COBPP	COBPC	HEATN	NOXPPM	NOXPPM	O2
08/13/2023 08:45	0.006726	389.3137950	0.1097382	0.0000387	0.0221982	0.0178910	2.765.8561100	2.6105800	1.8228213	12.4952336
08/13/2023 08:46	0.006726	389.4781670	0.1077010	0.0000389	0.0247141	0.0173423	2.768.3437500	2.6032527	1.8267408	12.4919978
08/13/2023 08:47	0.006726	389.4228720	0.1094727	0.0000395	0.0250847	0.0178284	2.769.0540000	2.6153782	1.8372163	12.5010030
08/13/2023 08:48	0.006726	389.4711420	0.1119334	0.0000405	0.0256817	0.0180386	2.768.0529600	2.6140672	1.8361044	12.5001292
08/13/2023 08:49	0.006726	389.5920290	0.1121357	0.0000405	0.0256834	0.0180488	2.771.8194900	2.6054787	1.8307323	12.5031588
08/13/2023 08:50	0.006726	389.2965190	0.1193991	0.0000411	0.0273024	0.0192134	2.770.1719400	2.5983161	1.8251856	12.5008016
08/13/2023 08:51	0.006726	389.2834230	0.1099133	0.0000387	0.0252312	0.0177159	2.766.3158300	2.5867674	1.8182541	12.4970010
08/13/2023 08:52	0.006726	389.3044420	0.1121272	0.0000405	0.0257248	0.0180848	2.767.7377000	2.5887480	1.8178972	12.4961890
08/13/2023 08:53	0.006726	389.3438050	0.1138389	0.0000412	0.0261316	0.0183581	2.768.1796000	2.5971716	1.8245990	12.5017879
08/13/2023 08:54	0.006726	388.8966840	0.1141154	0.0000413	0.0262238	0.0184008	2.764.4848000	2.6003489	1.8246255	12.4916377
08/13/2023 08:55	0.006726	388.9145670	0.1120304	0.0000405	0.0257010	0.0180594	2.766.8249000	2.5947040	1.8229254	12.5020709
08/13/2023 08:56	0.006726	389.2840130	0.1102149	0.0000388	0.0253445	0.0177880	2.767.8914300	2.6031536	1.8242308	12.4887623
08/13/2023 08:57	0.006726	389.0208110	0.1080707	0.0000390	0.0248398	0.0174130	2.768.5387100	2.6188033	1.8344099	12.4835671
08/13/2023 08:58	0.006726	389.0202790	0.1054251	0.0000381	0.0242521	0.0170300	2.764.8786200	2.5956603	1.8187046	12.4844230
08/13/2023 08:59	0.006726	389.9963770	0.1013869	0.0000387	0.0233831	0.0163634	2.762.8238000	2.5590223	1.7907906	12.4889480
08/13/2023 09:00	0.006726	389.5204120	0.1023918	0.0000374	0.0238530	0.0169888	2.759.0836000	2.5689969	1.7844300	12.4720358
08/13/2023 09:01	0.006726	388.4897280	0.1030102	0.0000373	0.0237618	0.0166513	2.758.1042400	2.6000304	1.8219882	12.4804385
08/13/2023 09:02	0.006684	388.8996950	0.1025738	0.0000371	0.0236114	0.0165474	2.764.1895700	2.6570372	1.8620884	12.4811691
08/13/2023 09:03	0.006684	388.5796980	0.1050598	0.0000380	0.0241935	0.0169484	2.764.0461000	2.6933366	1.8655117	12.4787218
08/13/2023 09:04	0.006726	388.2760530	0.1138242	0.0000412	0.0252259	0.0183886	2.759.8283500	2.5807142	1.8083189	12.4845179
08/13/2023 09:05	0.006489	388.8903990	0.1095316	0.0000387	0.0252137	0.0176856	2.762.8177500	2.5012740	1.7944685	12.4856002
08/13/2023 09:25	0.006726	387.4596240	0.1075752	0.0000391	0.0248203	0.0174208	2.763.7617800	2.6015481	1.8265227	12.4964830
08/13/2023 09:26	0.006726	387.1789340	0.1060598	0.0000397	0.0251716	0.0176824	2.749.2988600	2.6056900	1.8303800	12.5008847
08/13/2023 09:27	0.006726	387.2103990	0.1094858	0.0000388	0.0252498	0.0177296	2.752.8837800	2.5869726	1.8024283	12.4972819
08/13/2023 09:28	0.006489	386.7397130	0.1102958	0.0000402	0.0254503	0.0179070	2.748.3071000	2.4736373	1.7404283	12.5149964
08/13/2023 09:29	0.006489	386.9442370	0.1102493	0.0000402	0.0255057	0.0179085	2.751.8723000	2.5404381	1.7834930	12.4961496
08/13/2023 09:30	0.006726	386.3215380	0.1162716	0.0000431	0.0273946	0.0192175	2.745.0838800	2.61179931	1.8390975	12.5011937
08/13/2023 09:31	0.006726	387.0676210	0.1132540	0.0000412	0.0261379	0.0183662	2.760.1431700	2.6296905	1.8484168	12.5062034
08/13/2023 09:32	0.006726	386.7642750	0.1106315	0.0000403	0.0255929	0.0179551	2.747.8788800	2.6058193	1.8281201	12.4901008
08/13/2023 09:33	0.006489	386.8874880	0.1077201	0.0000392	0.0248822	0.0174780	2.748.2053400	2.5482819	1.7899337	12.5003256
08/13/2023 09:34	0.006489	386.4813170	0.1054488	0.0000383	0.0243561	0.0170829	2.751.6991600	2.4881614	1.7448305	12.4999281
08/13/2023 09:35	0.006489	386.2137280	0.1041898	0.0000380	0.0241528	0.0169415	2.743.7846800	2.5259399	1.7715445	12.4884276
08/13/2023 09:36	0.006726	386.5249530	0.1043263	0.0000379	0.0241406	0.0169223	2.749.2942300	2.6273915	1.8471296	12.4831827
08/13/2023 09:37	0.006684	386.1386180	0.1057307	0.0000385	0.0244977	0.0171879	2.744.9982000	2.6066187	1.8444425	12.4804600
08/13/2023 09:38	0.006726	386.4096370	0.1095429	0.0000386	0.0245028	0.0171874	2.747.0042100	2.6441842	1.8541595	12.4935352
08/13/2023 09:39	0.006726	386.2238390	0.1090489	0.0000383	0.0243458	0.0170909	2.749.1835900	2.5724961	1.8028992	12.4894579
08/13/2023 09:40	0.006726	386.0541340	0.1085636	0.0000386	0.0250848	0.0178393	2.744.8472100	2.5537486	1.7901013	12.5061182
08/13/2023 09:41	0.006726	386.4014980	0.1086021	0.0000395	0.0251928	0.0178139	2.748.2605000	2.5548583	1.7826543	12.4913885
08/13/2023 09:42	0.006489	385.8285120	0.1100118	0.0000401	0.0254735	0.0178850	2.743.3220200	2.5437708	1.7860041	12.4967102
08/13/2023 09:43	0.006726	386.7842180	0.1108951	0.0000403	0.0255828	0.0179816	2.750.2793000	2.5542839	1.7903439	12.5058424
08/13/2023 09:44	0.006726	385.6236420	0.1202453	0.0000439	0.0278768	0.0195685	2.739.8018100	2.5884358	1.8158709	12.4962740
08/13/2023 09:45	0.006726	388.7352190	0.1108812	0.0000403	0.0254875	0.0179693	2.750.2895100	2.6727204	1.8137938	12.5265881
08/13/2023 10:01	0.006726	386.3816990	0.1075471	0.0000391	0.0248585	0.0174502	2.748.6849900	2.5513754	1.7909935	12.4950878
08/13/2023 10:02	0.006726	386.1886000	0.1078941	0.0000393	0.0249743	0.0175207	2.747.1852000	2.5699272	1.7966212	12.4900235
08/13/2023 10:03	0.006726	386.1903950	0.1084798	0.0000395	0.0250914	0.0178289	2.744.8956000	2.5621283	1.8001195	12.5024305
08/13/2023 10:04	0.006489	386.4215730	0.1148103	0.0000417	0.0254809	0.0189930	2.753.1076000	2.5494889	1.7901518	12.4972602
08/13/2023 10:05	0.006489	385.9112870	0.1078487	0.0000392	0.0249010	0.0174889	2.745.3706000	2.5487330	1.7888370	12.4883777
08/13/2023 10:06	0.006489	386.3448840	0.1059561	0.0000388	0.0244918	0.0172023	2.747.1096000	2.5476238	1.7883647	12.4979737
08/13/2023 10:07	0.006726	386.4195790	0.1044322	0.0000379	0.0241176	0.0169161	2.753.3433800	2.5717574	1.8051742	12.4879648
08/13/2023 10:08	0.006726	386.0228690	0.1036148	0.0000377	0.0239789	0.0168233	2.746.1708500	2.5914095	1.8180719	12.4903492
08/13/2023 10:09	0.006489	386.4851890	0.1021010	0.0000371	0.0239005	0.0165436	2.752.2091700	2.5494960	1.7878533	12.4865183
08/13/2023 10:10	0.006726	385.8471290	0.0991407	0.0000361	0.0229832	0.0160993	2.748.7001500	2.5642221	1.7961708	12.4771105
08/13/2023 10:11	0.006726	386.0286440	0.1117946	0.0000408	0.0258272	0.0181138	2.749.3518800	2.6788215	1.8072683	12.4876905
08/13/2023 10:12	0.006726	386.0492630	0.1023281	0.0000373	0.0237429	0.0166311	2.743.4056400	2.5633304	1.7954866	12.4788014
08/13/2023 10:13	0.006726	386.0647830	0.1038827	0.0000378	0.0243008	0.0168484	2.748.9577700	2.5589015	1.7949094	12.4847013
08/13/2023 10:14	0.006726	386.4047810	0.1033338	0.0000376	0.0239573	0.0167877	2.747.9098700	2.5914345	1.8136952	12.4998689
08/13/2023 10:15	0.006726	386.1112620	0.1046213	0.0000381	0.0242286	0.0169931	2.746.3220800	2.5901276	1.8169624	12.4877095
08/13/2023 10:16	0.006726	386.3098230	0.1058862	0.0000385	0.0245359	0.0171886	2.747.0350100	2.5957100	1.7903479	12.4778993
08/13/2023 10:17	0.006489	386.0840070	0.1070365	0.0000390	0.0248054	0.0173893	2.744.8648000	2.6084829	1.7983020	12.4836963
08/13/2023 10:18	0.006489	385.8570430	0.1091020	0.0000398	0.0252925	0.0177412	2.744.7990000	2.6208545	1.7883046	12.4883682
08/13/2023 10:19	0.006489	385.9096250	0.1101778	0.0000401	0.0254870	0.0178822	2.745.9929600	2.5486705	1.7902827	12.4973344
08/13/2023 10:20	0.006726	386.0977930	0.1106894	0.0000403	0.0256023	0.0179560	2.749.1042200	2.6480293	1.8578467	12.4874312
08/13/2023 10:21	0.006726	386.2895870	0.1110386	0.0000405	0.0257100	0.0180790	2.751.8024800	2.6412034	1.8586296	12.5081379
Avg (unrounded)	0.006825	387.2008207	0.1064446	0.0000394	0.0250296	0.0175645	2.753.7524452	2.5804445	1.8107466	12.4920568
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Round Average	0.007	387	0.1	0.000	0.0	0.0	2,753.8	2.6	1.8	12.5

VOC Run Detail Report

Plant: NCG Test: 9/13/2023 2:15:00 PM Operating Level: H
 Source: UNIT01 Parameter: NOX/MM Run Number: 2, Parts 1-3

Date/Time	NOX/MM	LOAD	COBHR	COBMM	COBPM	COBPPM	COBPPM	HEATIN	NOXPPM	NOXPPM	O2
09/13/2023 10:47	0.0062101	384.6491110	0.1000355	0.0000365	0.0232603	0.0162970	2.739.4091300	2.4277174	1.703.232	12.4988406	
09/13/2023 10:48	0.0062101	385.2105530	0.1017158	0.0000371	0.0235869	0.0165426	2.742.2269300	2.3776343	1.6675301	12.4875546	
09/13/2023 10:49	0.0062101	384.6426730	0.1013259	0.0000371	0.0235726	0.0165239	2.734.4871300	2.4331340	1.7054651	12.4830439	
09/13/2023 10:50	0.0064689	384.8336130	0.1010481	0.0000369	0.0234468	0.0164499	2.739.3854200	2.5382526	1.7807854	12.4903882	
09/13/2023 10:51	0.0068864	385.0190680	0.1139732	0.0000418	0.0264437	0.0185556	2.738.9329000	2.6892600	1.8720959	12.4917090	
09/13/2023 10:52	0.0068864	384.8584530	0.1039321	0.0000380	0.0241118	0.0169255	2.737.7002100	2.6753784	1.8779660	12.4948884	
09/13/2023 10:53	0.0067276	384.9287900	0.1055675	0.0000385	0.0248811	0.0171841	2.741.3766300	2.5529623	1.7620218	12.4949573	
09/13/2023 10:54	0.0064689	384.9419140	0.1066449	0.0000390	0.0247277	0.0172711	2.738.4875300	2.4952317	1.7528837	12.5013669	
09/13/2023 10:55	0.0064689	384.7728810	0.1061380	0.0000388	0.0246289	0.0172962	2.736.3673900	2.5303954	1.7769753	12.4986305	
09/13/2023 10:56	0.0067276	384.6876180	0.1048378	0.0000387	0.0252107	0.0177248	2.738.4056900	2.5508754	1.7932967	12.5079872	
09/13/2023 10:57	0.0067276	384.8722800	0.1074615	0.0000382	0.0249341	0.0174993	2.739.1195500	2.6113203	1.8347118	12.4996204	
09/13/2023 10:58	0.0067276	384.5223390	0.1085110	0.0000391	0.0248387	0.0174149	2.737.4847000	2.6400682	1.8509471	12.4848168	
09/13/2023 10:59	0.0067276	384.4784410	0.1040132	0.0000380	0.0241189	0.0169538	2.735.6151600	2.5682482	1.8016292	12.4960225	
09/13/2023 11:00	0.0064689	385.1046480	0.1020463	0.0000376	0.0239640	0.0167689	2.740.4490200	2.5288785	1.7747190	12.4984877	
09/13/2023 11:01	0.0067276	384.7102950	0.0994931	0.0000363	0.0231264	0.0162035	2.737.8442100	2.5588176	1.7623161	12.4791344	
09/13/2023 11:02	0.0064689	384.4884730	0.0989115	0.0000361	0.0229834	0.0161105	2.738.0886500	2.5341044	1.7762900	12.4828725	
09/13/2023 11:03	0.0064689	384.6829950	0.1000873	0.0000396	0.0229267	0.0177532	2.741.1482700	2.5388789	1.7825184	12.4931676	
09/13/2023 11:04	0.0067276	384.8863740	0.1037235	0.0000378	0.0239083	0.0167862	2.738.4845900	2.6148426	1.8372970	12.4962903	
09/13/2023 11:06	0.0067276	384.4554890	0.1053366	0.0000385	0.0244852	0.0171810	2.733.2100600	2.6148452	1.8347519	12.4914846	
09/13/2023 11:07	0.0067276	384.9036700	0.1029441	0.0000376	0.0239240	0.0167797	2.735.2549000	2.5609936	1.7961443	12.4878634	
09/13/2023 11:08	0.0064689	384.4085710	0.1049569	0.0000383	0.0243817	0.0170965	2.737.5576900	2.5407359	1.7850314	12.4856449	
09/13/2023 11:22	0.0067276	383.9190920	0.1029578	0.0000375	0.0239037	0.0167386	2.732.4383000	2.5700278	1.7996447	12.4743208	
09/13/2023 11:23	0.0067276	383.7975150	0.1126397	0.0000412	0.0262170	0.0183758	2.730.6978600	2.5962869	1.7866953	12.4819981	
09/13/2023 11:24	0.0067276	383.5796235	0.1048822	0.0000383	0.0243468	0.0170868	2.727.7699100	2.5686301	1.7962434	12.4918821	
09/13/2023 11:25	0.0067276	383.9190990	0.1040155	0.0000381	0.0242417	0.0169751	2.732.3529600	2.6124548	1.8293331	12.4742017	
09/13/2023 11:26	0.0067276	383.8550180	0.1064922	0.0000390	0.0247762	0.0173834	2.732.3854200	2.6390286	1.8494980	12.4909191	
09/13/2023 11:27	0.0067276	383.8178310	0.1084335	0.0000388	0.0252810	0.0177357	2.731.6821200	2.6133746	1.8333748	12.4898844	
09/13/2023 11:28	0.0064689	383.5442840	0.1081119	0.0000386	0.0251759	0.0178626	2.727.7320200	2.5481219	1.7876889	12.4901764	
09/13/2023 11:29	0.0067276	383.4641130	0.1097795	0.0000403	0.0255501	0.0179543	2.727.0836200	2.5692939	1.7984258	12.5038591	
09/13/2023 11:30	0.0067276	383.8005100	0.1106828	0.0000405	0.0257457	0.0180614	2.730.6542200	2.6067673	1.8289594	12.4896906	
09/13/2023 11:31	0.0068864	382.8805880	0.1128309	0.0000412	0.0261704	0.0183564	2.728.9122000	2.6543686	1.8620257	12.4898206	
09/13/2023 11:32	0.0067276	383.1702980	0.1181874	0.0000433	0.0274716	0.0193158	2.729.2388000	2.6073604	1.8335629	12.5100881	
09/13/2023 11:33	0.0067276	383.8795190	0.1064152	0.0000397	0.0252809	0.0178993	2.732.0087200	2.6452674	1.8628321	12.4767742	
09/13/2023 11:34	0.0067276	383.7300840	0.1065929	0.0000391	0.0248669	0.0174299	2.724.8114200	2.6337237	1.8489874	12.4823730	
09/13/2023 11:36	0.0067276	383.3338990	0.1039996	0.0000381	0.0241709	0.0168978	2.733.1989200	2.5686402	1.7967741	12.4982539	
09/13/2023 11:36	0.0064689	383.3238070	0.1021862	0.0000375	0.0238448	0.0167100	2.728.2658900	2.5474080	1.7852041	12.4809230	
09/13/2023 11:37	0.0064689	383.1560070	0.0994894	0.0000384	0.0231887	0.0162523	2.729.7920200	2.5238022	1.7686446	12.4811023	
09/13/2023 11:38	0.0064689	383.4827210	0.0996720	0.0000386	0.0232873	0.0163168	2.732.6812200	2.4663578	1.7280225	12.4790638	
09/13/2023 11:38	0.0064689	383.5901440	0.1027204	0.0000377	0.0240022	0.0168129	2.723.6964200	2.5490901	1.7861168	12.4766362	
09/13/2023 11:40	0.0072452	383.2418070	0.1048303	0.0000385	0.0244358	0.0171476	2.726.7405500	2.6130873	1.8736460	12.4922067	
09/13/2023 11:41	0.0077827	382.9011580	0.1041007	0.0000383	0.0243754	0.0170700	2.719.3173000	2.9690529	2.0789252	12.4748384	
09/13/2023 11:42	0.0067276	382.8288400	0.1071283	0.0000384	0.0250063	0.0175533	2.732.3580000	2.5977575	1.8292220	12.4949625	
09/13/2023 11:58	0.0067276	382.8049950	0.1020995	0.0000375	0.0238380	0.0167443	2.717.4538700	2.5699596	1.8193473	12.5010191	
09/13/2023 12:00	0.0067276	383.0323180	0.1034897	0.0000380	0.0240992	0.0169425	2.725.5681200	2.5786441	1.8114260	12.5079532	
09/13/2023 12:01	0.0067276	382.8721880	0.1044331	0.0000383	0.0243358	0.0170523	2.724.3683000	2.6160626	1.8375664	12.4994912	
09/13/2023 12:02	0.0067276	382.8080710	0.1100124	0.0000404	0.0256178	0.0180166	2.722.3117800	2.6015473	1.8296440	12.5109421	
09/13/2023 12:03	0.0064689	383.0788700	0.1073879	0.0000384	0.0250169	0.0175813	2.724.8608700	2.6236880	1.7735228	12.5043874	
09/13/2023 12:04	0.0064689	383.1313480	0.1068077	0.0000392	0.0248388	0.0174836	2.727.5072800	2.5019795	1.7591900	12.5087873	
09/13/2023 12:06	0.0064689	383.0313940	0.1077119	0.0000385	0.0250570	0.0178274	2.723.8054800	2.6036432	1.7912252	12.5128178	
09/13/2023 12:06	0.0064689	382.8831400	0.1084626	0.0000398	0.0252381	0.0177638	2.723.0694400	2.4885487	1.7514942	12.5171475	
09/13/2023 12:07	0.0067276	383.3339730	0.1115447	0.0000409	0.0259291	0.0182269	2.727.9272000	2.5693134	1.8068439	12.5109204	
09/13/2023 12:08	0.0067276	382.9878810	0.1111324	0.0000409	0.0258730	0.0182167	2.719.9521300	2.6440412	1.8617153	12.5208748	
09/13/2023 12:09	0.0068864	383.3839330	0.1099911	0.0000403	0.0255841	0.0178994	2.730.9519000	2.6511907	1.8631695	12.5048378	
09/13/2023 12:10	0.0067276	382.4282320	0.1065861	0.0000391	0.0248854	0.0174534	2.722.2143000	2.5925687	1.8181835	12.4872186	
09/13/2023 12:11	0.0064689	382.8934940	0.1028950	0.0000378	0.0239850	0.0168629	2.720.7747800	2.5361983	1.7829969	12.5077982	
09/13/2023 12:12	0.0067276	382.8748950	0.1094088	0.0000402	0.0255416	0.0179122	2.724.4769600	2.5637231	1.7965145	12.4803765	
09/13/2023 12:13	0.0067276	382.9556350	0.1019969	0.0000372	0.0236056	0.0165705	2.723.2018500	2.5688008	1.7949847	12.4949609	
09/13/2023 12:14	0.0064689	382.7009180	0.1030699	0.0000378	0.0240918	0.0168718	2.723.8757300	2.5254994	1.7688605	12.4752322	
09/13/2023 12:15	0.0064689	382.9577930	0.1031992	0.0000380	0.0241290	0.0169347	2.715.0633600	2.5377925	1.7811308	12.4934961	
09/13/2023 12:16	0.0068864	382.9287990	0.1081336	0.0000390	0.0247625	0.0173834	2.723.7025100	2.8526884	1.8622004	12.4951232	
09/13/2023 12:17	0.0068864	381.8736590	0.1093521	0.0000388	0.0246283	0.0172999	2.714.8086700	2.6627093	1.8703097	12.5003802	
09/13/2023 12:18	0.0067276	381.7881370	0.1078186	0.0000397	0.0251642	0.0178858	2.719.6644100	2.5447109	1.8166067	12.5091819	
09/13/2023 12:19	0.0064689	381.7319620	0.1064306	0.0000392	0.0249122	0.0174767	2.714.5670900	2.4884418	1.7927251	12.4897716	
Avg (rounded)	0.006701	383.582880	0.1058167	0.0000388	0.0246318	0.0172977	2.729.5573175	2.5775986	1.8088860	12.4932809	
# Valid Minutes	63	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1	1
Rounded Average	0.007	384	0.1	0.000	0.0	0.0	2.729.6	2.6	1.8	12.5	

VOC Run Detail Report

Plant: NCG Test: 9/13/2023 2:15:00 PM Operating Lev: H
 Source: UNIT01 Parameter: NOX&MM Run Number: 3, Parts 1-3

Date/Time	NOX&MM	LOAD	CO&HR	CO&MM	CO&PPM	CO&PPM	HEATN	NOX&PPM	NOX&PPM	O2
08/13/2023 12:43	0.0067276	382.024980	0.1138831	0.000419	0.0268170	0.0186965	2.716.1803100	2.6404164	1.8548943	12.5002212
08/13/2023 12:43	0.0064889	381.6781370	0.1072641	0.0003995	0.0250985	0.0179080	2.717.1867700	2.5442678	1.7478629	12.5038837
08/13/2023 12:44	0.0064889	382.0248470	0.1079074	0.0003996	0.0251938	0.0176784	2.721.1415800	2.5454210	1.7620546	12.4918119
08/13/2023 12:44	0.0064889	381.2898840	0.1030482	0.0003779	0.0241822	0.0169226	2.716.1895200	2.5485523	1.7814967	12.4758376
08/13/2023 12:44	0.0067276	381.9037210	0.1022278	0.0003716	0.0238830	0.0167712	2.718.1744900	2.5939391	1.8207182	12.4944223
08/13/2023 12:47	0.0068864	382.2723300	0.1008484	0.0003771	0.0235813	0.0165318	2.720.5891400	2.6962658	1.8692749	12.4841287
08/13/2023 12:48	0.0067276	381.7509210	0.0973908	0.0003059	0.0228056	0.0159913	2.715.2509300	2.6134804	1.8325633	12.4857910
08/13/2023 12:49	0.0064889	382.3896430	0.0982482	0.0003361	0.0229686	0.0161011	2.722.2783000	2.5109697	1.7603839	12.4842408
08/13/2023 12:50	0.0064889	381.8028470	0.1028858	0.0003778	0.0240597	0.0168552	2.721.1305400	2.5292104	1.7693006	12.4792227
08/13/2023 12:51	0.0067276	381.5088880	0.1022887	0.0003777	0.0229983	0.0168002	2.714.7203800	2.5628538	1.7970904	12.4858864
08/13/2023 12:52	0.0064889	381.0384590	0.1087905	0.0004401	0.0250376	0.0178795	2.713.7458400	2.4405962	1.7789966	12.4722288
08/13/2023 12:53	0.0067276	381.6825530	0.1085285	0.0003399	0.0231148	0.0178125	2.717.8821400	2.8101395	1.8364882	12.5144988
08/13/2023 12:54	0.0068864	381.7267380	0.1072433	0.0003984	0.0250841	0.0175868	2.717.3732200	2.6853418	1.8819077	12.4811364
08/13/2023 12:54	0.0069514	381.3032230	0.1084589	0.0003989	0.0250138	0.0178074	2.717.4942300	2.3053754	1.6216716	12.5131500
08/13/2023 12:54	0.0068864	380.7190620	0.1088114	0.0004400	0.0254548	0.0178352	2.711.9720800	2.7453491	1.9234730	12.4790409
08/13/2023 12:57	0.0068864	381.2289120	0.1088365	0.0003983	0.0248841	0.0175181	2.716.2506400	2.7225830	1.9181523	12.5258538
08/13/2023 12:58	0.0068864	381.5455270	0.1079995	0.0003996	0.0251535	0.0176831	2.718.2758900	2.7005886	1.8962572	12.4873947
08/13/2023 12:59	0.0069208	381.0732880	0.1103027	0.0004407	0.0257529	0.0181448	2.711.0847300	2.2337574	1.5668669	12.5259013
08/13/2023 13:00	0.0075039	381.1146990	0.1090034	0.0004401	0.0250039	0.0178904	2.715.0485100	2.8971672	2.0042199	12.4901384
08/13/2023 13:01	0.0064889	380.3840890	0.1110304	0.0004411	0.0260300	0.0183084	2.705.2249700	2.5100912	1.7651495	12.5115687
08/13/2023 13:02	0.0064889	380.7111270	0.1128900	0.0004416	0.0269700	0.0185548	2.708.6195300	2.4515004	1.7248893	12.5146899
08/13/2023 13:19	0.0064889	380.9015830	0.1028653	0.0003779	0.0240697	0.0168800	2.719.1244800	2.4975212	1.7524058	12.4917697
08/13/2023 13:20	0.0067276	379.7889910	0.1013844	0.0003775	0.0238825	0.0167132	2.703.8300000	2.8014147	1.8227960	12.4797441
08/13/2023 13:21	0.0068864	380.3591270	0.1061158	0.0003981	0.0248885	0.0174440	2.713.4286300	2.6704338	1.8731300	12.4839515
08/13/2023 13:22	0.0075039	380.1248370	0.0991891	0.0003985	0.0232985	0.0162919	2.714.7158400	2.8982552	2.0301570	12.4733219
08/13/2023 13:23	0.0067276	380.2748140	0.1006895	0.0003669	0.0234838	0.0164342	2.714.1309100	2.5697915	1.7970722	12.4781308
08/13/2023 13:24	0.0064889	378.5483530	0.1001983	0.0003770	0.0232695	0.0165165	2.706.3750200	2.4738415	1.7387010	12.4958204
08/13/2023 13:25	0.0064889	379.9317290	0.1003786	0.0003770	0.0235512	0.0165163	2.709.7238000	2.4885927	1.7483207	12.4869042
08/13/2023 13:26	0.0067276	380.0181770	0.1008943	0.0003773	0.0238657	0.0166186	2.709.0830300	2.5914323	1.8187434	12.4980134
08/13/2023 13:27	0.0067276	379.7788990	0.1006150	0.0003773	0.0236657	0.0166214	2.707.7849000	2.8260007	1.8442979	12.4929918
08/13/2023 13:28	0.0067276	380.4165700	0.1026805	0.0003778	0.0240022	0.0168529	2.715.8628900	2.5681138	1.8039999	12.4966471
08/13/2023 13:29	0.0067276	379.4331730	0.1034267	0.0003882	0.0241109	0.0170428	2.706.6173700	2.5925396	1.7888984	12.4837583
08/13/2023 13:30	0.0064889	379.4899900	0.1028888	0.0003779	0.0241192	0.0169216	2.711.2951700	2.5253428	1.7716104	12.4898885
08/13/2023 13:31	0.0067276	379.4705440	0.1058995	0.0003981	0.0248479	0.0174467	2.707.1024100	2.8354878	1.8504585	12.4989554
08/13/2023 13:32	0.0068864	380.0153890	0.1070578	0.0003986	0.0251860	0.0178900	2.716.4088300	2.6982323	1.8714080	12.4847028
08/13/2023 13:33	0.0067276	378.3188930	0.1181698	0.0004431	0.0273896	0.0180207	2.697.8826800	2.5634287	1.7970445	12.4843785
08/13/2023 13:34	0.0064889	379.5103100	0.1080440	0.0003984	0.0249168	0.0179507	2.707.3848000	2.5075429	1.7881513	12.5235512
08/13/2023 13:35	0.0075039	379.8879190	0.1049008	0.0003887	0.0249926	0.0172401	2.712.7144200	2.8960098	2.0302462	12.4830303
08/13/2023 13:36	0.0069208	379.4039740	0.1018718	0.0003778	0.0238180	0.0167477	2.708.3616500	2.2030532	1.5489708	12.5090999
08/13/2023 13:37	0.0067276	379.9993790	0.1018199	0.0003774	0.0238151	0.0168906	2.714.0188100	2.6302601	1.8430186	12.4812137
08/13/2023 13:38	0.0067276	379.3854580	0.0993071	0.0003668	0.0233121	0.0163378	2.711.8104400	2.5803991	1.8083927	12.4813300
08/13/2023 13:39	0.0064889	379.8068870	0.0978608	0.0003660	0.0229843	0.0160689	2.709.0317100	2.4872238	1.7379951	12.4866777
08/13/2023 13:44	0.0064889	378.6855220	0.1025798	0.0003660	0.0241334	0.0169291	2.701.0879800	2.5131427	1.7628959	12.4888716
08/13/2023 13:46	0.0067276	378.8848930	0.0998823	0.0003668	0.0234556	0.0164015	2.707.3414800	2.8107815	1.8205189	12.4821467
08/13/2023 13:47	0.0068864	378.2433600	0.0970520	0.0003661	0.0230117	0.0160999	2.700.3837100	2.5858159	1.8780438	12.4867891
08/13/2023 13:58	0.0067276	378.7872240	0.0986305	0.0003689	0.0234383	0.0164538	2.706.6371700	2.6281584	1.8400715	12.4857444
08/13/2023 13:59	0.0067276	378.8068350	0.0999047	0.0003689	0.0238692	0.0164817	2.704.7518800	2.5640312	1.7907061	12.4520595
08/13/2023 14:00	0.0064889	377.8183130	0.1021815	0.0003779	0.0240436	0.0169012	2.697.7741400	2.5222844	1.7728846	12.5063484
08/13/2023 14:01	0.0068864	379.5263850	0.1101528	0.0004406	0.0259110	0.0181008	2.712.8028600	2.7372076	1.9190331	12.4861685
08/13/2023 14:02	0.0069514	378.2649610	0.1031407	0.0003682	0.0242855	0.0170309	2.701.0870200	2.3452912	1.6445777	12.4863198
08/13/2023 14:03	0.0064889	379.0085340	0.1080571	0.0003988	0.0248319	0.0172910	2.710.2863800	2.4617065	1.7279264	12.4947821
08/13/2023 14:04	0.0075039	378.9252590	0.1060091	0.0003981	0.0248836	0.0174465	2.708.4882700	2.8775008	2.0172849	12.4841583
08/13/2023 14:06	0.0067276	378.2538550	0.1078070	0.0003989	0.0253375	0.0177713	2.708.3535300	2.8058432	1.8279830	12.4877330
08/13/2023 14:06	0.0064889	377.9088370	0.1077942	0.0003999	0.0258895	0.0177960	2.702.6381600	2.5493848	1.7862901	12.4795151
08/13/2023 14:07	0.0067276	377.4603520	0.1086895	0.0004402	0.0265762	0.0179476	2.700.4384800	2.5651154	1.8005471	12.4823188
08/13/2023 14:08	0.0067276	378.1775930	0.1074668	0.0003988	0.0252827	0.0177567	2.698.2291000	2.6084937	1.8341341	12.5058155
08/13/2023 14:09	0.0067276	378.0243380	0.1057861	0.0003981	0.0248976	0.0174468	2.703.7420900	2.5690151	1.8005310	12.4819063
08/13/2023 14:10	0.0064889	377.8788140	0.1094424	0.0003683	0.0243399	0.0170746	2.701.3259700	2.5162086	1.7601536	12.4896129
08/13/2023 14:11	0.0064889	377.8899680	0.1021417	0.0003778	0.0240134	0.0168561	2.702.0835600	2.5421093	1.7844010	12.4848982
08/13/2023 14:12	0.0067276	378.7414380	0.0928735	0.0003880	0.0241151	0.0169434	2.708.1200200	2.6445636	1.8580322	12.5024087
08/13/2023 14:13	0.0067276	377.9607330	0.1086227	0.0003981	0.0249332	0.0174980	2.702.1026400	2.6230475	1.8384744	12.4728822
08/13/2023 14:14	0.0064889	377.7612100	0.0999700	0.0003771	0.0232296	0.0165324	2.697.2211700	2.4562754	1.7207661	12.5029749
08/13/2023 14:15	0.0074452	378.2701050	0.0999873	0.0003688	0.0234883	0.0164298	2.703.2382000	2.7774682	1.9428737	12.4858866
Arg (Unround#)	0.0068784	379.8895895	0.1043807	0.0003685	0.0244771	0.0171728	2.709.9763159	2.5830192	1.8122057	12.4900294
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Rounded Average	0.007	380	0.1	0.000	0.0	0.0	2.710	2.8	1.8	12.5

VOC Run Detail Report

Plant: NCG Test: 9/14/2023 1:57:00 PM Operating Level: M
 Source: UNIT02 Parameter: NOX#MM Run Number: 1, Parts 1-3

Date/Time	NOX#MM	LOAD	COMHR	COMMM	COPPM	COPPMC	HEATIN	NOXPPM	NOXPPMC	O2
09/14/2023 08:35	0.006655	281.000000	0.3621121	0.0001808	0.1017948	0.0680200	2.003.2723600	2.3242141	1.8409377	13.4483285
09/14/2023 08:36	0.0067556	281.000000	0.1462536	0.0001726	0.0970942	0.0789503	2.004.9236900	2.3228527	1.8402965	13.4456437
09/14/2023 08:37	0.006655	281.000000	0.1744418	0.0002374	0.1337157	0.1059005	1.998.8996900	2.3162967	1.8334311	13.4449764
09/14/2023 08:38	0.006655	281.000000	0.1595965	0.0002580	0.1459101	0.1154910	2.005.0356500	2.3046714	1.8161211	13.4456090
09/14/2023 08:39	0.006655	281.000000	0.4271804	0.0002132	0.1201229	0.0905956	2.002.4388500	2.2790791	1.8030971	13.4445883
09/14/2023 08:40	0.006655	281.000000	0.4155742	0.0002072	0.1167759	0.0923753	2.004.6068500	2.2749416	1.7990965	13.4415900
09/14/2023 08:41	0.006655	281.000000	0.3680258	0.0001990	0.1122245	0.0887504	2.006.6705100	2.2842385	1.8061875	13.4382919
09/14/2023 08:42	0.006655	281.000000	0.3545814	0.0001770	0.0968188	0.0789537	2.001.7015300	2.2917442	1.8124964	13.4398008
09/14/2023 08:43	0.006655	281.000000	0.4307123	0.0002148	0.1209999	0.0957886	2.003.2772200	2.3005671	1.8212544	13.4472227
09/14/2023 08:44	0.006655	281.000000	0.3471939	0.0001736	0.0978119	0.0774213	2.000.1785700	2.3090361	1.8244679	13.4459014
09/14/2023 08:45	0.006655	281.000000	0.2524348	0.0001263	0.0712756	0.0563401	1.998.3007000	2.2985611	1.8169915	13.4380023
09/14/2023 08:46	0.006655	281.000000	0.2921942	0.0001288	0.0720884	0.0574530	2.006.0553200	2.2821872	1.8110864	13.4291596
09/14/2023 08:47	0.006655	281.000000	0.3363862	0.0001690	0.0953312	0.0753480	2.002.9673600	2.2835013	1.8048863	13.4353350
09/14/2023 08:48	0.006655	281.000000	0.3222123	0.0001508	0.0851099	0.0672977	2.001.5248800	2.2790427	1.8011189	13.4376140
09/14/2023 08:49	0.006655	281.000000	0.1612795	0.0000905	0.0510804	0.0403712	2.001.9822800	2.2740671	1.7972543	13.4347333
09/14/2023 08:50	0.006655	281.000000	0.1604205	0.0000802	0.0453496	0.0357485	2.002.5129000	2.2789598	1.7988396	13.4317786
09/14/2023 08:51	0.006655	281.000000	0.2378884	0.0001185	0.0669373	0.0528348	2.006.4872500	2.2968092	1.8128995	13.4249485
09/14/2023 08:52	0.006655	281.000000	0.2993332	0.0001495	0.0844680	0.0666480	2.000.8864400	2.3144543	1.8282515	13.4227448
09/14/2023 08:53	0.006655	281.000000	0.4344878	0.0002170	0.1228895	0.0967807	2.004.8709700	2.3105656	1.8225614	13.4202349
09/14/2023 08:54	0.006655	281.000000	0.3534454	0.0001762	0.0994088	0.0785638	2.003.3247800	2.2908591	1.8104775	13.4342283
09/14/2023 08:55	0.006655	281.000000	0.3758078	0.0001881	0.1061738	0.0830027	1.997.1206600	2.2895392	1.7934120	13.4335917
09/14/2023 08:56	0.006655	281.000000	0.4072968	0.0002040	0.1154305	0.0909624	2.004.6300000	2.3085439	1.8176190	13.4123260
09/14/2023 08:57	0.006655	281.000000	0.4250919	0.0002128	0.1203942	0.0948895	1.997.5710300	2.2948093	1.8080551	13.4134876
09/14/2023 08:58	0.006655	281.000000	0.3031752	0.0001912	0.0856048	0.0674335	2.007.0860100	2.2828251	1.7979516	13.4098389
09/14/2023 08:59	0.006655	281.000000	0.3029430	0.0001510	0.0854435	0.0672244	2.005.2919400	2.2757027	1.7920679	13.4127243
09/14/2023 09:00	0.006655	281.000000	0.2891609	0.0001444	0.0819856	0.0644118	2.004.3521800	2.2780730	1.7947658	13.4177485
09/14/2023 09:01	0.006655	281.000000	0.2770546	0.0001381	0.0781631	0.0619367	2.002.9639100	2.2846166	1.8004508	13.4133834
09/14/2023 09:02	0.006655	281.000000	0.1942444	0.0000979	0.0553899	0.0436785	2.006.4025900	2.2821554	1.8081993	13.4258452
09/14/2023 09:03	0.006655	281.000000	0.2231609	0.0001112	0.0828355	0.0495947	2.007.7778100	2.2927945	1.8098836	13.4249228
09/14/2023 09:04	0.006655	281.000000	0.3736763	0.0001864	0.1054101	0.0831386	2.002.0763000	2.2929182	1.8065297	13.4197890
09/14/2023 09:05	0.006655	281.000000	0.3969471	0.0001981	0.1120877	0.0883338	2.005.8308900	2.2892125	1.8074513	13.4153000
09/14/2023 09:06	0.006655	281.000000	0.3678882	0.0001837	0.1038880	0.0819297	2.002.4820200	2.2821638	1.8076319	13.4184998
09/14/2023 09:07	0.006655	281.000000	0.4819429	0.0002406	0.1361027	0.1072942	1.998.9198100	2.2895716	1.8050094	13.4160927
09/14/2023 09:08	0.006655	280.000000	0.3473033	0.0001737	0.0983080	0.0747151	2.003.9020600	2.2871708	1.8029950	13.4139079
09/14/2023 09:09	0.006655	280.000000	0.3382130	0.0001681	0.0951308	0.0748517	1.998.8603400	2.2832722	1.7986782	13.4118821
09/14/2023 09:10	0.006655	281.000000	0.3047231	0.0001521	0.0890261	0.0678406	2.001.6858400	2.2778401	1.7962386	13.4130906
09/14/2023 09:11	0.006655	280.000000	0.2769253	0.0001385	0.0783767	0.0617710	2.001.3549800	2.2743487	1.7924513	13.4137679
09/14/2023 09:12	0.006655	281.000000	0.2871091	0.0001436	0.0812538	0.0640382	1.998.8990000	2.2794864	1.7965214	13.4138521
09/14/2023 09:13	0.006655	281.000000	0.2328585	0.0001166	0.0658852	0.0519970	1.997.4154400	2.2802524	1.8075101	13.4242132
09/14/2023 09:14	0.006655	281.000000	0.4187411	0.0002083	0.1181887	0.0833444	2.001.0287500	2.3031947	1.8191764	13.4201926
09/14/2023 09:15	0.006655	281.000000	0.3294714	0.0001644	0.0828995	0.0733237	2.001.4070200	2.3052493	1.8201733	13.4276302
09/14/2023 09:16	0.006655	281.000000	0.3179891	0.0001592	0.0888225	0.0708448	1.997.0413500	2.2874480	1.8147666	13.4308604
09/14/2023 09:17	0.0067556	281.000000	0.2806531	0.0001402	0.0793295	0.0635362	2.003.0383000	2.2825844	1.7949508	13.4542144
09/14/2023 09:18	0.006655	281.000000	0.4161330	0.0002086	0.1175850	0.0930398	1.993.9723800	2.2587510	1.7873222	13.4437538
09/14/2023 09:19	0.0067556	281.000000	0.3930512	0.0001988	0.1106826	0.0871455	2.000.2042500	2.2868420	1.7970886	13.4579883
09/14/2023 09:20	0.0067556	281.000000	0.4895927	0.0002444	0.1374014	0.1089682	2.008.2547100	2.2719936	1.8017984	13.4602852
09/14/2023 09:21	0.0067556	281.000000	0.5355135	0.0002870	0.1502924	0.1190623	2.004.2592300	2.2863296	1.8112463	13.4524128
09/14/2023 09:22	0.0067556	281.000000	0.5440996	0.0002720	0.1529086	0.1212834	2.000.0010000	2.3198789	1.8400054	13.4612547
09/14/2023 09:23	0.0067556	281.000000	0.5730561	0.0002861	0.1608116	0.1278338	2.004.9950300	2.3487624	1.8618514	13.4633300
09/14/2023 09:24	0.0067556	281.000000	0.4144738	0.0002072	0.1163652	0.0823787	1.998.1234000	2.3372270	1.8556415	13.4697928
09/14/2023 09:25	0.0067556	281.000000	0.5068229	0.0002542	0.1430181	0.1133687	2.003.8217200	2.2898965	1.8148972	13.4580506
09/14/2023 09:26	0.0064819	281.000000	0.4748336	0.0002389	0.1337778	0.1056496	2.003.8829900	2.2485622	1.7787240	13.4514870
09/14/2023 09:27	0.0063757	281.000000	0.3586912	0.0001789	0.0997334	0.0789047	2.007.6419400	2.2309718	1.7648001	13.4418751
09/14/2023 09:28	0.0063757	281.000000	0.4379123	0.0002184	0.1231632	0.0974009	2.005.9132300	2.2419296	1.7730007	13.4398494
09/14/2023 09:29	0.006655	281.000000	0.3620118	0.0001804	0.1019384	0.0847002	2.005.5885500	2.2664080	1.7967940	13.4330111
09/14/2023 09:30	0.006655	281.000000	0.4474692	0.0002232	0.1297978	0.0995473	2.004.0073900	2.3017198	1.8213437	13.4437948
09/14/2023 09:31	0.006655	281.000000	0.5575457	0.0002779	0.1595790	0.1238170	2.010.4414000	2.3352939	1.8481486	13.4448320
09/14/2023 09:32	0.006655	281.000000	0.5336226	0.0002682	0.1499150	0.1196870	2.001.9959700	2.3382882	1.8512262	13.4479533
09/14/2023 09:33	0.0067556	281.000000	0.5773384	0.0002890	0.1628178	0.1288844	1.998.9178000	2.3332216	1.8491515	13.4554877
09/14/2023 09:34	0.0067556	281.000000	0.6262211	0.0003134	0.1762991	0.1397479	1.999.6647000	2.3183895	1.8376940	13.4568668
09/14/2023 09:35	0.0067556	281.000000	0.6025505	0.0003009	0.1693606	0.1341749	2.001.5684100	2.2893756	1.8123413	13.4529204
09/14/2023 09:36	0.0067556	281.000000	0.5463721	0.0002724	0.1531248	0.1214874	2.005.9533700	2.2565632	1.7896592	13.4636258
09/14/2023 09:37	0.0064819	281.000000	0.5375242	0.0002693	0.1514508	0.1201098	1.996.6393000	2.2343684	1.7719018	13.4600206
Arg (unrounded)	0.006688	280.9623810	0.3870318	0.0001933	0.1088873	0.0861872	2.002.5512744	2.2900167	1.8102760	13.4363486
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Weighted Average	0.307	281	0.4	0.000	0.1	0.1	2.002.6	2.3	1.8	13.4

VOC Run Detail Report

Plant: NCG Test: 9/14/2023 1:57:00 PM Operating Level: M
 Source: UNIT02 Parameter: NCK#MM Run Number: 2, Parts 1-3

Date/Time	NOX#MM	LOAD	CO#HR	CO#MM	CO#PPM	CO#PPM	HEATN	NOX#PPM	NOX#PPM	O2
09/14/2023 10:28	0.0067556	281.0000000	0.8295062	0.0003126	0.1786688	0.1394157	2.000.8893000	2.3006706	1.8282060	13.4855849
09/14/2023 10:30	0.0067556	281.0000000	0.8879415	0.0002983	0.1675580	0.1330056	2.006.1786000	2.2960280	1.8220548	13.4872144
09/14/2023 10:31	0.0067556	281.0000000	0.8239543	0.0003111	0.1748852	0.1387410	2.003.5334300	2.2757748	1.8044082	13.4586932
09/14/2023 10:32	0.0067556	281.0000000	0.7171115	0.0003079	0.2011540	0.1589551	2.007.7609000	2.2500331	1.7851598	13.4633956
09/14/2023 10:33	0.0064819	281.0000000	0.7826330	0.0003888	0.2190420	0.1738290	2.006.9894200	2.2499188	1.7931140	13.4893304
09/14/2023 10:34	0.0067556	281.0000000	0.7318151	0.0003654	0.2052835	0.1629692	2.000.1887500	2.2587934	1.7931891	13.4879999
09/14/2023 10:35	0.0067556	281.0000000	0.7084955	0.0003531	0.1980992	0.1574806	2.006.9538000	2.2631318	1.8190342	13.4763325
09/14/2023 10:36	0.0067556	281.0000000	0.8308052	0.0003748	0.1786472	0.1404005	2.001.4517800	2.2969996	1.8255885	13.4767545
09/14/2023 10:37	0.0067556	281.0000000	0.8931352	0.0002460	0.1392545	0.1105963	2.002.7738400	2.2955992	1.8232117	13.4712948
09/14/2023 10:38	0.0067556	281.0000000	0.8649690	0.0002821	0.1584641	0.1297901	2.003.5243800	2.2942388	1.8213492	13.4681196
09/14/2023 10:39	0.0067556	281.0000000	0.8312064	0.0002947	0.1487079	0.1180686	2.004.4144000	2.3003429	1.8262887	13.4684749
09/14/2023 10:40	0.0067556	281.0000000	0.7087085	0.0003019	0.1977798	0.1569206	2.009.8021800	2.3198722	1.8374188	13.4842798
09/14/2023 10:41	0.0067556	281.0000000	0.8501176	0.0003239	0.1820848	0.1444438	2.006.0918400	2.3389450	1.8507027	13.4835249
09/14/2023 10:42	0.0067556	281.0000000	0.8451048	0.0004212	0.2361769	0.1876311	2.005.5149600	2.3303906	1.8332667	13.4810347
09/14/2023 10:43	0.0067556	281.0000000	0.7460742	0.0003714	0.2084128	0.1856437	2.008.6481800	2.2765702	1.8093434	13.4764162
09/14/2023 10:44	0.0064819	280.0000000	0.7328077	0.0003649	0.2048095	0.1827414	2.005.4940100	2.2316348	1.7732855	13.4748864
09/14/2023 10:45	0.0064819	280.0000000	0.7914924	0.0003955	0.2220545	0.1763596	2.003.2978400	2.2228988	1.7864255	13.4717600
09/14/2023 10:46	0.0064819	280.0000000	0.8966449	0.0003476	0.1953287	0.1549856	2.002.1038100	2.2376147	1.7794030	13.4844862
09/14/2023 10:47	0.0067556	280.0000000	0.8841716	0.0003418	0.1919907	0.1524075	2.002.8074400	2.2786736	1.8086613	13.4875400
09/14/2023 10:48	0.0067556	280.0000000	0.7149882	0.0003587	0.2001872	0.1906819	2.009.3127700	2.3182177	1.8420208	13.4748385
09/14/2023 10:49	0.0067556	280.0000000	0.6813920	0.0003307	0.1833671	0.1474957	1.997.8035000	2.3305972	1.8542765	13.4843166
09/14/2023 11:06	0.0067556	281.0000000	0.7030261	0.0003811	0.1865077	0.1565718	2.001.1541700	2.3108518	1.8411873	13.4949477
09/14/2023 11:06	0.0070493	281.0000000	0.7579002	0.0003778	0.2114834	0.1848489	2.008.1944000	2.3831022	1.8824990	13.4942971
09/14/2023 11:07	0.0070493	281.0000000	0.8276824	0.0004826	0.2590977	0.2063082	2.002.8992900	2.3730006	1.8883799	13.4897479
09/14/2023 11:08	0.0067556	281.0000000	0.8721616	0.0004348	0.2439878	0.1839073	2.007.4446200	2.3261976	1.8596034	13.4880748
09/14/2023 11:09	0.0067556	281.0000000	0.8282055	0.0004255	0.2376033	0.1897340	2.003.7579900	2.2753999	1.8169434	13.5113074
09/14/2023 11:10	0.0064819	281.0000000	0.8443109	0.0004713	0.2632476	0.2101566	2.005.9884000	2.2803311	1.7787912	13.5086676
09/14/2023 11:11	0.0064819	281.0000000	0.8025004	0.0004003	0.2518027	0.2007958	2.002.2267900	2.2117833	1.7660370	13.5067010
09/14/2023 11:12	0.0064819	281.0000000	0.8356237	0.0004671	0.2612887	0.2083050	2.004.8980700	2.2203381	1.7702349	13.4996278
09/14/2023 11:13	0.0064819	280.0000000	0.8833386	0.0004446	0.2491591	0.1982797	2.008.2725700	2.2494533	1.7865334	13.4880327
09/14/2023 11:14	0.0067556	280.0000000	0.8925186	0.0004466	0.2496282	0.1991895	2.001.9611700	2.2774847	1.8148921	13.4961722
09/14/2023 11:15	0.0067556	281.0000000	0.8320471	0.0004160	0.2323996	0.1855082	1.997.8515000	2.3002862	1.8360075	13.5081674
09/14/2023 11:16	0.0067556	281.0000000	0.9007019	0.0004495	0.2511825	0.2004461	2.003.5379700	2.2775727	1.8179035	13.5064749
09/14/2023 11:17	0.0064819	281.0000000	0.8051063	0.0004531	0.2538215	0.2020548	1.997.3266800	2.2424731	1.7865442	13.4942849
09/14/2023 11:18	0.0064819	281.0000000	0.8465738	0.0004734	0.2648018	0.2111108	1.999.9832200	2.2311745	1.7805853	13.5050549
09/14/2023 11:19	0.0064819	281.0000000	0.8041856	0.0004753	0.2695043	0.2119374	2.009.8107500	2.2427020	1.7932963	13.5212404
09/14/2023 11:20	0.0067556	281.0000000	0.8989894	0.0004935	0.2751749	0.2200591	2.003.4351000	2.2582978	1.8060009	13.5223778
09/14/2023 11:21	0.0067556	281.0000000	0.8724513	0.0004856	0.2711464	0.2188640	2.004.0429800	2.2764547	1.8182247	13.5130684
09/14/2023 11:22	0.0067556	281.0000000	0.8704574	0.0004831	0.2698335	0.2154280	2.007.3234000	2.2623677	1.8299730	13.5094726
09/14/2023 11:23	0.0067556	281.0000000	0.8118662	0.0005048	0.2822903	0.2251052	2.005.3739800	2.2886648	1.8252737	13.5021136
09/14/2023 11:24	0.0067556	281.0000000	0.7951293	0.0003970	0.2228259	0.1770430	2.002.8588700	2.2759878	1.8090254	13.4807287
09/14/2023 11:25	0.0067556	281.0000000	0.8384448	0.0004688	0.2631987	0.2090970	2.001.6880400	2.2812533	1.8189488	13.4819685
09/14/2023 11:42	0.0067556	281.0000000	0.8008655	0.0003988	0.2237856	0.1762962	2.005.7502900	2.3270972	1.8542073	13.4952597
09/14/2023 11:43	0.0067556	281.0000000	0.8016162	0.0004866	0.2793280	0.2223770	2.008.5385400	2.3373046	1.8605753	13.4882276
09/14/2023 11:44	0.0067556	281.0000000	0.8122252	0.0005097	0.2821075	0.2255048	2.002.7714300	2.3142777	1.8460396	13.5034507
09/14/2023 11:45	0.0067556	281.0000000	0.8054185	0.0005242	0.2824915	0.2337592	2.002.2175800	2.2736156	1.8170176	13.5177135
09/14/2023 11:46	0.0064819	281.0000000	0.8405382	0.0005190	0.2897200	0.2314438	2.006.9679300	2.2318486	1.7827906	13.5144811
09/14/2023 11:47	0.0064819	281.0000000	0.8008970	0.0004987	0.2796371	0.2223839	2.005.3170200	2.2194270	1.7688588	13.4971074
09/14/2023 11:48	0.0067556	281.0000000	0.8928312	0.0005260	0.2948553	0.2345812	2.010.5468800	2.2552715	1.7998998	13.4912192
09/14/2023 11:49	0.0067556	281.0000000	0.8873071	0.0004428	0.2482388	0.1973854	2.002.3773400	2.3041500	1.8320914	13.4797606
09/14/2023 11:50	0.0067556	281.0000000	0.8862286	0.0004312	0.2417879	0.1922873	2.010.5253600	2.3313726	1.8541893	13.4815013
09/14/2023 11:51	0.0067556	281.0000000	0.8712975	0.0004352	0.2442984	0.1940818	1.999.9169600	2.3269531	1.8480388	13.4741927
09/14/2023 11:52	0.0067556	281.0000000	0.8705430	0.0004348	0.2437150	0.1938743	2.003.9217400	2.2879560	1.8200519	13.4831941
09/14/2023 11:53	0.0064819	281.0000000	0.8918411	0.0004453	0.2488833	0.1988852	2.003.3223500	2.2392206	1.7867080	13.5056993
09/14/2023 11:54	0.0064819	280.0000000	0.8628401	0.0005315	0.2972074	0.2370099	2.000.3643100	2.1854225	1.7388920	13.5018861
09/14/2023 11:55	0.0061842	281.0000000	0.8198332	0.0004547	0.2564179	0.2045377	2.002.2022500	2.1471364	1.7127007	13.5034900
09/14/2023 11:56	0.0064819	281.0000000	0.8906022	0.0004240	0.2372033	0.1893766	2.000.5134200	2.1779069	1.7381055	13.5095574
09/14/2023 11:57	0.0064819	280.0000000	0.8303891	0.0005154	0.2878524	0.2298233	2.004.8673100	2.2363832	1.7865145	13.5101418
09/14/2023 11:58	0.0067556	280.0000000	0.8353189	0.0004669	0.2607228	0.2081914	2.003.1974700	2.2643338	1.8060988	13.5111779
09/14/2023 11:59	0.0067556	281.0000000	0.8971474	0.0004478	0.2500776	0.1997108	2.005.2637700	2.2918748	1.8302713	13.5119604
09/14/2023 12:00	0.0067556	281.0000000	0.8783339	0.0004388	0.2451410	0.1996105	2.000.7051400	2.3254164	1.8505214	13.5058242
09/14/2023 12:01	0.0067556	280.0000000	0.8405597	0.0004217	0.2346265	0.1880428	2.004.2093200	2.3254089	1.8509519	13.5068800
09/14/2023 12:02	0.0067556	281.0000000	0.9474802	0.0004728	0.2848064	0.2108407	2.004.2128800	2.2823500	1.8207430	13.5106557
Avg (Unrounded)	0.0068764	280.8002338	0.8390394	0.0004187	0.2343671	0.1866975	2.004.0870827	2.2772628	1.8133398	13.4905643
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Rounded Average	0.007	281	0.8	0.000	0.2	0.2	2.004	2.3	1.8	13.5

VOC Run Detail Report

Plant: NCG Tes 9/14/2023 1:57:00 PM Operating Level: M
 Source: UNIT02 Parameter: NOX/MMM Run Number: 3, Parts 1-3

Date/Time	NOX/MMM	LOAD	COBHR	COBMM	COBPM	COBPPM	COBPPHC	HEATN	NOXPPM	NOXPPHC	O2
09/14/2023 12:26	0.0067556	280.0000000	0.8166871	0.0004082	0.2279010	0.1820317	2.000.8262000	2.3477682	1.8761193	13.5163305	
09/14/2023 12:27	0.0067556	280.0000000	0.8706883	0.0004390	0.2445603	0.1957074	1.994.3215100	2.3293368	1.8616159	13.5238002	
09/14/2023 12:28	0.0064619	281.0000000	0.9279512	0.0004645	0.2589043	0.2071921	2.001.1248400	2.2322390	1.7860160	13.5259012	
09/14/2023 12:29	0.0061682	280.0000000	0.8288871	0.0004310	0.2401371	0.1922081	2.000.0815300	2.1478035	1.7189592	13.5287476	
09/14/2023 12:30	0.0061682	280.0000000	0.9111368	0.0004554	0.2550503	0.2030591	2.000.9652300	2.1207225	1.6887202	13.5342778	
09/14/2023 12:31	0.0064619	280.0000000	1.0075098	0.0005032	0.2807431	0.2243812	2.004.9898000	2.1579173	1.7247194	13.5180355	
09/14/2023 12:32	0.0064619	280.0000000	0.9797105	0.0004995	0.2731083	0.2192856	1.998.2821900	2.2483347	1.7972049	13.5181904	
09/14/2023 12:33	0.0067556	280.0000000	0.949421	0.0004578	0.2556390	0.2041657	1.988.5377200	2.195350	1.8525477	13.5126832	
09/14/2023 12:34	0.0070483	280.0000000	0.8231813	0.0004116	0.2298854	0.1838297	2.002.7113400	2.3767911	1.8974209	13.5093761	
09/14/2023 12:35	0.0070483	280.0000000	0.8110304	0.0004200	0.2342996	0.1872737	2.000.0070000	2.3884475	1.9170072	13.5184690	
09/14/2023 12:36	0.0070483	280.0000000	0.8541163	0.0004270	0.2381987	0.1904904	2.003.1269800	2.3889758	1.8969857	13.5188827	
09/14/2023 12:37	0.0067556	280.0000000	0.8420995	0.0004197	0.2343134	0.1871423	2.005.9994000	2.2889181	1.8280442	13.5126420	
09/14/2023 12:38	0.0064619	280.0000000	0.7674180	0.0003828	0.2138925	0.1708945	2.002.4274300	2.3190484	1.7708790	13.5088079	
09/14/2023 12:39	0.0064619	280.0000000	0.8281988	0.0004142	0.2313183	0.1846964	2.000.3821000	2.1625623	1.7289996	13.5102819	
09/14/2023 12:40	0.0061682	280.0000000	0.8686688	0.0004324	0.2413445	0.1928399	1.998.2754900	2.1094044	1.8881609	13.5180272	
09/14/2023 12:41	0.0061682	281.0000000	1.0172048	0.0005099	0.2842704	0.2273882	1.998.4138900	2.0823450	1.6485484	13.5234821	
09/14/2023 12:42	0.0061682	280.0000000	1.0781110	0.0005361	0.2984326	0.2396979	2.000.2584000	2.0784305	1.6850028	13.5349822	
09/14/2023 12:43	0.0064619	280.0000000	1.0915328	0.0005455	0.3039159	0.2432801	2.004.2266000	2.1581671	1.7279322	13.5293209	
09/14/2023 12:44	0.0064619	280.0000000	1.0540688	0.0005274	0.2937904	0.2351876	1.997.5681800	2.2485214	1.8000100	13.5299046	
09/14/2023 12:45	0.0067556	281.0000000	1.074701	0.0005354	0.2985196	0.2387891	2.000.0806000	2.3196480	1.8552694	13.5235329	
09/14/2023 12:46	0.0067556	280.0000000	0.9790121	0.0004983	0.2778829	0.2222084	2.003.9318900	2.3443683	1.8746521	13.5216906	
09/14/2023 12:47	0.0067556	281.0000000	0.7387522	0.0003879	0.2058277	0.1640816	2.006.4746000	2.2027253	1.7954818	13.4974670	
09/14/2023 12:48	0.0067556	281.0000000	0.862487	0.0004321	0.2414893	0.1928889	2.003.9952000	2.2757487	1.8157330	13.5051980	
09/14/2023 13:03	0.0067556	281.0000000	0.9579285	0.0004787	0.2684884	0.2125914	2.008.2303000	2.2788757	1.8182711	13.5058193	
09/14/2023 13:06	0.0067556	281.0000000	0.9147892	0.0004584	0.2549140	0.2058412	2.006.4639000	2.2988792	1.8069910	13.5119617	
09/14/2023 13:06	0.0064619	281.0000000	0.9571108	0.0004770	0.2659888	0.2127179	2.007.7842100	2.2387006	1.7905737	13.5233950	
09/14/2023 13:07	0.0064619	281.0000000	0.9390808	0.0004873	0.2603458	0.2083614	2.007.7842100	2.2188072	1.7756225	13.5282011	
09/14/2023 13:08	0.0064619	281.0000000	1.0309537	0.0005146	0.2886291	0.2294908	2.003.5194000	2.2103689	1.7890982	13.5001187	
09/14/2023 13:09	0.0064619	281.0000000	0.9294338	0.0004831	0.2584749	0.2065289	2.007.8183000	2.2124189	1.7876873	13.5158856	
09/14/2023 13:10	0.0064619	280.0000000	0.9190060	0.0004086	0.2328252	0.1822143	2.004.1046500	2.2343195	1.7834129	13.5082489	
09/14/2023 13:11	0.0067556	281.0000000	0.8448115	0.0004219	0.2357513	0.1881182	2.003.7530000	2.2613234	1.8044542	13.5061816	
09/14/2023 13:12	0.0067556	281.0000000	0.894727	0.0004474	0.2498272	0.1999045	2.003.2329000	2.2802590	1.8223589	13.5174216	
09/14/2023 13:15	0.0067556	281.0000000	0.8967542	0.0004473	0.2497714	0.1994380	2.004.9722000	2.2835147	1.8074631	13.5113275	
09/14/2023 13:14	0.0064619	281.0000000	0.7913426	0.0003943	0.2202596	0.1788519	2.007.8531200	2.2428016	1.7904379	13.5099361	
09/14/2023 13:15	0.0064619	281.0000000	0.7943829	0.0003987	0.2210140	0.1784337	2.005.5360000	2.2389141	1.7841433	13.5093023	
09/14/2023 13:16	0.0064619	281.0000000	0.8689507	0.0004314	0.2409735	0.1923609	2.004.5016200	2.2384721	1.7888255	13.5210484	
09/14/2023 13:17	0.0064619	281.0000000	0.9079805	0.0004772	0.2658680	0.2127799	2.007.8804000	2.2407113	1.7964096	13.5239890	
09/14/2023 13:18	0.0067556	281.0000000	0.9774858	0.0004864	0.2603458	0.2108956	2.009.3427000	2.2541433	1.8038741	13.5284030	
09/14/2023 13:19	0.0067556	281.0000000	1.0180467	0.0005073	0.2833630	0.2281983	2.004.6824000	2.2738885	1.8150478	13.5092145	
09/14/2023 13:20	0.0067556	281.0000000	0.9441186	0.0004712	0.2620551	0.2101229	2.005.6812800	2.2969822	1.8334226	13.5088714	
09/14/2023 13:21	0.0067556	281.0000000	0.9558989	0.0004785	0.2682432	0.2124753	2.005.0878000	2.3074201	1.8414625	13.5075922	
09/14/2023 13:22	0.0067556	281.0000000	0.8927111	0.0004444	0.2482870	0.1981838	2.010.3980000	2.2888065	1.8307325	13.5084336	
09/14/2023 13:27	0.0067556	281.0000000	0.9307420	0.0004889	0.2604983	0.2081968	2.006.0856000	2.2908745	1.7990959	13.5181022	
09/14/2023 13:36	0.0067556	281.0000000	0.9027806	0.0004488	0.2509983	0.2001478	2.010.1645700	2.2824913	1.8042012	13.5012746	
09/14/2023 13:39	0.0067556	281.0000000	0.8055200	0.0004022	0.2244474	0.1789734	2.004.0365100	2.2907974	1.8006453	13.5170222	
09/14/2023 13:40	0.0067556	281.0000000	0.9151253	0.0004582	0.2545188	0.2034396	2.004.5182800	2.3039938	1.8418047	13.5185892	
09/14/2023 13:41	0.0067556	281.0000000	0.8731699	0.0004358	0.2432432	0.1943513	2.003.1960300	2.2841896	1.8202089	13.5167029	
09/14/2023 13:42	0.0067556	281.0000000	0.8750504	0.0004380	0.2437803	0.1944452	2.008.7283100	2.2637586	1.8055970	13.5028483	
09/14/2023 13:43	0.0067556	281.0000000	0.8428728	0.0004202	0.2351712	0.1874017	2.006.2919100	2.2774382	1.8148378	13.4960712	
09/14/2023 13:44	0.0067556	281.0000000	0.8011745	0.0003984	0.2229132	0.1776688	2.009.7248000	2.3001516	1.8333299	13.4976398	
09/14/2023 13:45	0.0067556	281.0000000	0.8703875	0.0004243	0.2429104	0.1936926	2.003.7738800	2.2947413	1.8297427	13.5005890	
09/14/2023 13:46	0.0067556	281.0000000	0.9516069	0.0004741	0.2648081	0.2114357	2.009.3287100	2.2540887	1.7897840	13.5106820	
09/14/2023 13:47	0.0064619	280.0000000	0.8708393	0.0004343	0.2423785	0.1936782	2.003.7204800	2.2504082	1.7811277	13.5182414	
09/14/2023 13:48	0.0064619	281.0000000	0.8295027	0.0004141	0.2313958	0.1848661	2.002.4013700	2.1534570	1.7188841	13.5083099	
09/14/2023 13:49	0.0061682	281.0000000	0.7843934	0.0003905	0.2177905	0.1741385	2.010.0074000	2.1491817	1.7186361	13.5219318	
09/14/2023 13:50	0.0064619	281.0000000	0.7201598	0.0003608	0.2016988	0.1609149	2.008.3161000	2.1827172	1.7413590	13.5048708	
09/14/2023 13:51	0.0064619	281.0000000	0.8244119	0.0003405	0.1903260	0.1518236	2.006.8274200	2.2461486	1.7917829	13.5037221	
09/14/2023 13:52	0.0067556	281.0000000	0.7929221	0.0003875	0.2163025	0.1728011	2.007.9612200	2.2264683	1.8963020	13.5147000	
09/14/2023 13:53	0.0070483	281.0000000	0.7741094	0.0003877	0.2166690	0.1728992	2.009.1990600	2.3856018	1.9042790	13.5087040	
09/14/2023 13:54	0.0070483	281.0000000	0.9181618	0.0004580	0.2548438	0.2039570	2.007.8031300	2.3772987	1.8989543	13.5124110	
09/14/2023 13:55	0.0067556	281.0000000	0.830668	0.0004139	0.2312381	0.1840711	2.008.3005700	2.2988868	1.8349672	13.5084109	
09/14/2023 13:56	0.0064619	281.0000000	0.8111990	0.0004530	0.2531991	0.2020086	2.008.9557300	2.2188487	1.7889523	13.5048704	
09/14/2023 13:57	0.0064619	281.0000000	0.9199201	0.0004578	0.2558497	0.2041336	2.010.2635000	2.1543529	1.7183367	13.5022838	
Arg (unrounded)	0.0068204	280.6825387	0.8922652	0.0004451	0.2488449	0.1984944	2.004.8593343	2.2521323	1.7991905	13.5147334	
# Valid Minutes	63	63	63	63	63	63	63	63	63	63	
Round Precision	3	0	1	3	1	1	1	1	1	1	
Rounded Average	0.007	281	0.9	0.000	0.2	0.2	2.0047	2.3	1.8	13.5	

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VOC Run Detail Report

Plant: NCG Tes: 9/15/2023 2:12:00 PM Operating Level: H
 Source: UNIT03 Parameter: NOX#/MM Run Number: 1, Parts 1-3

Date/Time	NOX#/MM	LOAD	COBHR	COBMM	COBPP	COBPMC	HEATIN	NOXPPM	NOXPPMC	O2
09/15/2023 08:50	0.0049164	396.9119730	1.5021143	0.0009432	0.3653469	0.2422193	2.790.912800	1.8615518	1.3057464	12.4885410
09/15/2023 08:51	0.0049164	395.2088600	1.9995923	0.0007259	0.4959158	0.3237481	2.749.7531100	1.9017295	1.3385865	12.5178231
09/15/2023 08:52	0.0049164	394.9514190	1.8730148	0.0006617	0.4305300	0.3039963	2.747.8337700	1.9123425	1.3503107	12.5442448
09/15/2023 08:53	0.0049164	393.9215670	1.4475868	0.0005284	0.3330223	0.2347583	2.750.8620600	1.9183479	1.3521615	12.5294750
09/15/2023 08:54	0.0051751	392.7106390	2.0889978	0.0007812	0.4812186	0.3394252	2.745.9524400	1.9542438	1.3785997	12.5380988
09/15/2023 08:55	0.0051751	392.6181880	1.7276881	0.0006289	0.3875693	0.2804772	2.748.7827800	1.9920449	1.4052848	12.5385028
09/15/2023 08:56	0.0051751	392.1050120	2.1672636	0.0007872	0.4994508	0.3510078	2.752.1416200	2.0280768	1.4253701	12.5052525
09/15/2023 08:57	0.0054339	391.6637880	1.8703917	0.0006054	0.3847352	0.2998614	2.790.9110000	2.0849589	1.4628479	12.4922923
09/15/2023 08:58	0.0054339	392.0358700	1.5101225	0.0005455	0.3477972	0.2433017	2.768.9929100	2.1373871	1.4949906	12.4648551
09/15/2023 08:59	0.0056256	392.1160170	1.8027263	0.0008502	0.4163481	0.2889713	2.772.0981300	2.1624171	1.5099716	12.4281839
09/15/2023 09:00	0.0056256	392.7336870	1.7114356	0.0006192	0.3895807	0.2747744	2.778.9039900	2.1981578	1.5290900	12.4062525
09/15/2023 09:01	0.0056256	392.9088900	2.1486288	0.0007721	0.4970652	0.3443094	2.782.2899900	2.2443524	1.5548489	12.3825010
09/15/2023 09:02	0.0058814	393.6507700	2.2043728	0.0007909	0.5099588	0.3528726	2.788.9136000	2.2625542	1.5648533	12.3694000
09/15/2023 09:03	0.0058814	394.4321900	1.8441961	0.0006975	0.4054534	0.3110579	2.786.9179600	2.2730537	1.5696909	12.3540912
09/15/2023 09:04	0.0058814	394.9204000	1.9142027	0.0006874	0.4440198	0.3095619	2.785.9047700	2.3200072	1.6098953	12.3541384
09/15/2023 09:05	0.0061371	395.4140830	2.4217744	0.0008996	0.5601856	0.3877897	2.785.9893000	2.4043275	1.6643424	12.3767580
09/15/2023 09:06	0.0061371	395.9385900	2.2986807	0.0008259	0.5326834	0.3682791	2.782.3425400	2.4271085	1.6780200	12.3681400
09/15/2023 09:07	0.0061371	396.1447910	1.4041686	0.0006061	0.3201113	0.2256925	2.774.7693700	2.4290414	1.6772743	12.3766404
09/15/2023 09:08	0.0061371	396.9920790	1.5993833	0.0006787	0.3703980	0.2571913	2.772.3134200	2.4351001	1.6907639	12.4025338
09/15/2023 09:09	0.0063929	399.6941700	1.2974233	0.0004689	0.3007316	0.2088733	2.766.4724100	2.4599164	1.7060762	12.4068309
09/15/2023 09:10	0.0063929	395.20511890	1.9808488	0.0006023	0.3849881	0.2686137	2.794.6331500	2.4569940	1.7141631	12.4432157
09/15/2023 09:15	0.0064930	393.2637180	1.5068037	0.0005434	0.3504187	0.2432323	2.769.9225400	2.5013765	1.7844201	12.3684820
09/15/2023 09:20	0.0064930	393.5808100	1.4196434	0.0005120	0.3299956	0.2283039	2.772.9399800	2.5975088	1.7970155	12.3717578
09/15/2023 09:27	0.0066485	393.8344590	1.1203144	0.0004373	0.2817506	0.1949816	2.769.9820900	2.6079298	1.8048514	12.3747063
09/15/2023 09:28	0.0066485	393.9958890	1.0141610	0.0003870	0.2357034	0.1636438	2.761.7745100	2.5873048	1.7962563	12.4018916
09/15/2023 09:29	0.0066485	394.5007870	1.4622069	0.0005303	0.3404309	0.2389706	2.756.9471900	2.5707834	1.7889072	12.4070017
09/15/2023 09:30	0.0066485	393.7875910	1.5875598	0.0005778	0.3705489	0.2576489	2.747.6927000	2.5692498	1.7888275	12.4166987
09/15/2023 09:31	0.0066485	393.3861770	1.4224343	0.0005180	0.3315849	0.2310137	2.746.3165600	2.5884942	1.8031774	12.4303961
09/15/2023 09:32	0.0066485	392.9058920	1.9131708	0.0006985	0.4462481	0.3114728	2.736.4435900	2.6044764	1.8178903	12.4469807
09/15/2023 09:33	0.0067278	392.2556990	2.0380798	0.0007458	0.4748818	0.3329815	2.735.0301500	2.5961701	1.8182576	12.4757878
09/15/2023 09:34	0.0067278	391.3325480	1.4810148	0.0005340	0.3401787	0.2384193	2.731.5413900	2.5993998	1.7933468	12.4797414
09/15/2023 09:35	0.0064930	391.1920850	2.1500640	0.0007861	0.5002390	0.3605681	2.734.9021200	2.4971776	1.7499414	12.4805589
09/15/2023 09:36	0.0064930	390.1019070	1.8316000	0.0006714	0.4370108	0.2989723	2.727.8779400	2.4887727	1.7494933	12.4848890
09/15/2023 09:37	0.0064930	390.1870730	2.2035832	0.0006089	0.5133026	0.3098413	2.731.3813000	2.5450406	1.7841012	12.4836202
09/15/2023 09:38	0.0067278	389.8539240	1.7962276	0.0006993	0.4193577	0.2989938	2.730.2079900	2.6073028	1.8279968	12.4846987
09/15/2023 09:39	0.0067278	389.2628230	2.2796083	0.0008359	0.5308549	0.3728594	2.727.8709800	2.6119192	1.8340164	12.4974700
09/15/2023 09:40	0.0067278	389.6389590	2.0700291	0.0007544	0.4802912	0.3364391	2.748.2843000	2.5446167	1.7884809	12.4771817
09/15/2023 09:41	0.0063929	388.4451010	2.3151729	0.0008499	0.5432410	0.3789980	2.743.9624600	2.4953761	1.7409134	12.4430006
09/15/2023 09:42	0.0063929	390.1080670	1.8696464	0.0006781	0.4332261	0.3024049	2.756.9158400	2.5309408	1.7642398	12.4360105
09/15/2023 09:43	0.0064930	390.1981940	1.7819588	0.0006454	0.4148529	0.2879384	2.762.3683000	2.6234829	1.8200793	12.3957068
09/15/2023 09:44	0.0069042	390.1472380	1.7718012	0.0006434	0.4139704	0.2868945	2.752.6164800	2.6992800	1.8679997	12.3899018
09/15/2023 09:45	0.0069042	390.9029810	1.8678819	0.0006095	0.3830868	0.2696821	2.755.9884900	2.6676040	1.8511289	12.3878211
09/15/2023 10:01	0.0067278	388.8390190	2.2344491	0.0008200	0.5230129	0.3686879	2.723.1068000	2.6439977	1.8485283	12.4613497
09/15/2023 10:02	0.0067278	388.4859150	2.2880307	0.0008317	0.5305898	0.3708411	2.727.7205100	2.5781823	1.8021090	12.4592800
09/15/2023 10:03	0.0064930	388.3109620	2.0867503	0.0007638	0.4817805	0.3406002	2.732.2029100	2.5173150	1.7979034	12.4506472
09/15/2023 10:04	0.0063929	388.1673190	1.7241484	0.0006296	0.4033931	0.2808068	2.738.8305400	2.5210983	1.7547183	12.4231408
09/15/2023 10:05	0.0064930	388.0318990	1.4944387	0.0005458	0.3509643	0.2433346	2.738.7344900	2.5683234	1.7810143	12.3918596
09/15/2023 10:06	0.0064930	388.5483170	1.0445048	0.0003957	0.2546941	0.1764336	2.740.3247000	2.6320220	1.8151201	12.3829206
09/15/2023 10:07	0.0064930	388.8801730	1.4123473	0.0005148	0.3311880	0.2296791	2.740.8983200	2.6297250	1.8228990	12.3843308
09/15/2023 10:08	0.0064930	389.8097100	0.8412240	0.0003069	0.1917472	0.1666341	2.745.9438000	2.5982751	1.8001468	12.3646038
09/15/2023 10:09	0.0064930	389.6099710	1.1384564	0.0004113	0.2652044	0.1843412	2.739.8635900	2.6022422	1.7996914	12.3657917
09/15/2023 10:10	0.0064930	389.6099900	2.0906581	0.0007544	0.4851922	0.3364183	2.737.8916700	2.6407102	1.8309114	12.3904484
09/15/2023 10:11	0.0064930	390.3424270	1.3213278	0.0004420	0.3099064	0.2149893	2.740.1011900	2.6360007	1.8212877	12.3831021
09/15/2023 10:12	0.0064930	390.5910510	1.8858378	0.0006148	0.3969541	0.2741627	2.742.2498000	2.5844794	1.7962983	12.3634747
09/15/2023 10:13	0.0064930	389.5256110	1.7843300	0.0006543	0.4219006	0.3191777	2.725.8808100	2.6360086	1.8229584	12.3833685
09/15/2023 10:14	0.0069042	389.4252490	1.8747210	0.0007254	0.4899855	0.3234721	2.723.0334600	2.6727912	1.8566422	12.4018237
09/15/2023 10:15	0.0064930	388.8828580	1.9524499	0.0007180	0.4804901	0.3002271	2.718.2399000	2.6149382	1.8181157	12.4143147
09/15/2023 10:16	0.0063929	388.4835990	2.0194289	0.0007420	0.4750270	0.3306081	2.720.4383000	2.5320089	1.7618971	12.4208579
09/15/2023 10:17	0.0063929	388.5090200	2.4085727	0.0008859	0.5667179	0.3950438	2.720.9644000	2.5009353	1.7434029	12.4382383
09/15/2023 10:18	0.0063929	388.8589170	2.4754729	0.0009084	0.5816850	0.4050324	2.724.3454000	2.5350151	1.7643024	12.4280349
09/15/2023 10:19	0.0064930	388.0822010	1.7097904	0.0006287	0.4019583	0.2803280	2.720.9840500	2.6395724	1.8382187	12.4405641
09/15/2023 10:20	0.0069042	388.5929870	1.7258077	0.0006333	0.4056298	0.2834533	2.723.1206000	2.6873824	1.8711509	12.4262952
09/15/2023 10:21	0.0069042	387.3150010	1.4978980	0.0005513	0.3558886	0.2487823	2.717.3729500	2.6827863	1.8648059	12.4120819

Avg (Unrounded)	0.0062973	391.5398348	1.7799017	0.0006476	0.4143678	0.2887082	2.748.3337433	2.4543401	1.7091452	12.4290573
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Rounded Average	0.006	392	1.8	0.001	0.4	0.3	2.748.3	2.5	1.7	12.4

VOC Run Detail Report

Plant: NCG
 Tes 9/15/2023 2:12:00 PM Operating Lev H
 Source: UNIT03 Parameter: NOX#MM Run Number: 2, Parts 1-3

Date/Time	NOX#MM	LOAD	COBHR	COBMM	COBPP	COBPPM	HEATIN	NOXPPM	NOXPPMC	OS
08/15/2023 10:44	0.006485	385.885730	1.513677	0.000569	0.267593	0.249274	2.709.8881000	2.637820	1.836619	12.459484
08/15/2023 10:45	0.006445	385.834550	1.128701	0.000472	0.266638	0.1860378	2.704.9022400	2.627630	1.833124	12.4437026
08/15/2023 10:46	0.006445	385.864780	1.3373192	0.000910	0.320888	0.2234151	2.709.9649600	2.587973	1.8018900	12.4293007
08/15/2023 10:47	0.006328	385.863590	1.248101	0.0004903	0.2947237	0.2052832	2.708.7938800	2.5480174	1.7747978	12.4284623
08/15/2023 10:48	0.006328	385.834690	1.935313	0.0007359	0.470794	0.3282327	2.709.0967600	2.5479526	1.7781842	12.4362527
08/15/2023 10:48	0.006328	388.1920400	2.085134	0.0007876	0.4918805	0.3423454	2.715.4068800	2.5484187	1.7747593	12.4247023
08/15/2023 10:50	0.006485	385.5492000	1.4443288	0.0005189	0.3323610	0.2313395	2.707.0992000	2.6119569	1.8183842	12.4248832
08/15/2023 10:51	0.0069042	388.1378930	1.8021529	0.0006644	0.4252038	0.2963297	2.711.4358300	2.6637993	1.8562287	12.4311119
08/15/2023 10:52	0.006485	385.8295930	1.6701842	0.0006180	0.3992173	0.2748587	2.711.1155000	2.6406495	1.8352922	12.4107997
08/15/2023 10:53	0.006485	385.1113950	2.0768177	0.0008173	0.5235865	0.3644756	2.702.2289100	2.5885816	1.8008914	12.4248037
08/15/2023 10:54	0.006328	385.5740890	1.4289842	0.0006067	0.3888542	0.2709660	2.706.5440300	2.5488327	1.7723275	12.4249108
08/15/2023 10:56	0.006328	388.0734830	1.797838	0.0008836	0.4243110	0.2998853	2.706.0740700	2.5310384	1.7852499	12.4403124
08/15/2023 10:56	0.006485	384.9018940	1.8220361	0.0006748	0.4315906	0.3008007	2.688.8884300	2.6002054	1.8130114	12.4381722
08/15/2023 10:57	0.0069042	384.5858430	1.851372	0.0006886	0.4472059	0.3114947	2.700.0214200	2.6589062	1.8021953	12.4301221
08/15/2023 10:58	0.007276	384.7364390	0.9098363	0.0003379	0.2102719	0.1504003	2.695.8093400	2.6014948	1.8194379	12.438113
08/15/2023 10:58	0.006328	385.0959570	1.3410054	0.0004862	0.3171096	0.2212750	2.704.8348000	2.5080622	1.7901896	12.4450301
08/15/2023 11:00	0.006328	384.7390230	1.588328	0.0005760	0.3886841	0.2588323	2.705.9878800	2.5357585	1.7888843	12.4313282
08/15/2023 11:01	0.0067276	384.7819090	1.044548	0.0003863	0.2454860	0.1718253	2.703.8207100	2.6430013	1.8489025	12.4704830
08/15/2023 11:02	0.0069042	384.9393040	1.3126118	0.0004857	0.3108451	0.2169898	2.703.8246600	2.6844927	1.8533001	12.4320597
08/15/2023 11:03	0.006485	384.4831590	1.6922885	0.0006284	0.4000873	0.2793544	2.702.9828000	2.6290215	1.8355141	12.4493986
08/15/2023 11:04	0.007276	384.6817930	1.5761344	0.0005639	0.3729089	0.2604058	2.697.8877800	2.5951512	1.8140422	12.4504663
08/15/2023 11:20	0.006884	383.8230200	1.272198	0.0004729	0.3012091	0.2108447	2.691.9318300	2.6787887	1.876888	12.4722915
08/15/2023 11:21	0.006328	383.0789740	1.024919	0.0003797	0.2428445	0.1893280	2.688.8989300	2.6405584	1.7735330	12.4382805
08/15/2023 11:22	0.006328	383.1184830	1.1649103	0.0004312	0.2780929	0.1922359	2.703.8114300	2.4989108	1.7402277	12.4277818
08/15/2023 11:23	0.006485	383.4096000	1.790110	0.0006987	0.4342400	0.2841833	2.707.1378100	2.5786736	1.7866788	12.3811887
08/15/2023 11:24	0.0069042	383.8131410	1.4661888	0.0005410	0.3482443	0.2412681	2.709.0399100	2.6500963	1.8358461	12.3839510
08/15/2023 11:25	0.0069042	383.8302880	1.7447788	0.0006446	0.4149995	0.2874555	2.705.9196000	2.6743038	1.8524107	12.3822135
08/15/2023 11:26	0.006485	383.9827440	2.099189	0.0007789	0.5002048	0.3484397	2.702.3148300	2.6495984	1.8350821	12.3811287
08/15/2023 11:27	0.006485	383.9514540	1.930303	0.0007152	0.4592284	0.3189251	2.700.9514800	2.5724811	1.7866273	12.4049182
08/15/2023 11:28	0.006328	383.288890	2.340887	0.0008841	0.5547342	0.3852381	2.708.9821300	2.6055515	1.7425776	12.4084210
08/15/2023 11:28	0.006328	383.8246400	1.688189	0.0007009	0.4519944	0.3128008	2.707.4338900	2.5253432	1.7482377	12.3877319
08/15/2023 11:30	0.0069042	384.8481310	1.838369	0.0006799	0.4360754	0.3031966	2.704.9851900	2.6854737	1.8032331	12.4140004
08/15/2023 11:31	0.007199	385.5842510	1.6164048	0.0005989	0.3837341	0.2868807	2.711.8156800	2.7385119	1.9102592	12.3800296
08/15/2023 11:32	0.0069042	384.8757890	2.0031005	0.0007638	0.4912817	0.3406121	2.702.8919100	2.7080824	1.8775829	12.3804488
08/15/2023 11:33	0.006485	385.8397870	2.1427253	0.0007920	0.5084954	0.3531997	2.703.8484300	2.5745216	1.7882486	12.4096970
08/15/2023 11:34	0.006328	385.5837810	2.0985722	0.0007746	0.4990889	0.3454315	2.709.6217900	2.5129600	1.7393107	12.3758890
08/15/2023 11:35	0.006485	384.8386310	1.8822071	0.0006988	0.4477415	0.3107054	2.699.9811800	2.5831232	1.7928226	12.3888897
08/15/2023 11:36	0.0069042	384.4864500	1.278964	0.0004712	0.3027713	0.2101206	2.701.0072300	2.7083086	1.879481	12.3981324
08/15/2023 11:37	0.0069042	384.7306010	1.006181	0.0003715	0.2387113	0.1657005	2.708.7029900	2.6783826	1.8687254	12.3981786
08/15/2023 11:38	0.006328	385.4898570	1.3221387	0.0004914	0.3199080	0.2191458	2.709.8744800	2.5368776	1.7989892	12.3841887
08/15/2023 11:38	0.006328	385.3291830	1.250498	0.0004500	0.2893240	0.2006855	2.711.9731200	2.4776310	1.7185504	12.3938474
08/15/2023 11:40	0.006328	384.9181310	0.7239211	0.0003874	0.1720124	0.1182338	2.708.1007300	2.5380395	1.7800043	12.3848478
08/15/2023 11:47	0.0069042	383.5718630	1.4437401	0.0005382	0.3449972	0.2391557	2.691.7966700	2.6717815	1.8519127	12.3880238
08/15/2023 11:58	0.006328	383.8880830	1.853986	0.0005498	0.3034422	0.2452128	2.701.3911800	2.5113388	1.7436206	12.3953289
08/15/2023 11:58	0.0061371	384.3114870	1.4888817	0.0005431	0.3498223	0.2421866	2.703.4331700	2.4441170	1.6920449	12.3773501
08/15/2023 12:00	0.006328	384.2041880	1.3119955	0.0004852	0.3114210	0.2163751	2.704.5771000	2.5453791	1.7685544	12.4062968
08/15/2023 12:01	0.0069042	384.2182920	1.3197870	0.0004884	0.3142895	0.2178830	2.702.4282100	2.6820813	1.8587008	12.3862042
08/15/2023 12:02	0.0069042	384.0288330	1.3808928	0.0005157	0.3317883	0.2398951	2.698.0834900	2.7293981	1.8916759	12.3872899
08/15/2023 12:03	0.0069042	383.8994490	1.3494194	0.0004988	0.3221510	0.2228788	2.698.9322500	2.654038	1.8371348	12.3721088
08/15/2023 12:04	0.006328	383.1943180	1.4670248	0.0005446	0.3059607	0.2428412	2.694.9789800	2.5476432	1.7643707	12.3807230
08/15/2023 12:05	0.006328	383.185080	1.8715522	0.0006950	0.4475959	0.3098482	2.691.4057900	2.5140105	1.7408062	12.3738802
08/15/2023 12:06	0.006328	383.4304880	1.8742025	0.0006960	0.4479584	0.3103703	2.696.0621100	2.5409929	1.7804015	12.3831910
08/15/2023 12:07	0.006485	383.5824180	1.750054	0.0004884	0.4188205	0.2891574	2.698.8253400	2.5880241	1.7876771	12.3842248
08/15/2023 12:08	0.0069042	383.1731050	1.2918958	0.0004802	0.3090420	0.2141715	2.689.0003200	2.6980049	1.8696137	12.3858115
08/15/2023 12:09	0.0069042	383.3037090	1.3744701	0.0005105	0.3280048	0.2278582	2.693.8112700	2.7021520	1.8704052	12.3989801
08/15/2023 12:10	0.006485	383.8374340	1.5274780	0.0005657	0.3628280	0.2522955	2.699.4561300	2.5892208	1.7803739	12.4190149
08/15/2023 12:11	0.006328	384.0090000	2.1384423	0.0007902	0.5082254	0.3524156	2.705.4665300	2.4837887	1.7213627	12.3901003
08/15/2023 12:12	0.006485	383.3991550	1.478925	0.0005483	0.3823401	0.2445015	2.693.3087900	2.6239515	1.8208810	12.3917814
08/15/2023 12:13	0.007199	383.6879530	1.9337375	0.0007236	0.4645496	0.3228881	2.700.9314700	2.7512153	1.9110507	12.4062085
08/15/2023 12:14	0.0069042	383.8958880	1.988099	0.0004442	0.3854399	0.1980995	2.696.5374100	2.7348863	1.8978503	12.3880057
08/15/2023 12:15	0.006485	383.5298280	0.9969328	0.0003897	0.2378619	0.1648828	2.697.0678900	2.6232781	1.8187688	12.3846858
08/15/2023 12:16	0.006485	382.9947020	1.3927229	0.0005171	0.3323274	0.2306293	2.691.7430700	2.5715103	1.7844083	12.3974854
08/15/2023 12:17	0.006485	382.7440970	1.2689096	0.0004885	0.3001600	0.2080699	2.692.8018800	2.5821523	1.7707267	12.3896935
Avg (unrounded)	0.006454	384.487709	1.5596149	0.0005770	0.3703884	0.2573136	2.702.6091284	2.6011871	1.8074177	12.4088444
# Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Rounded Average	0.007	384	1.6	0.001	0.4	0.3	2.702.5	2.6	1.8	12.4

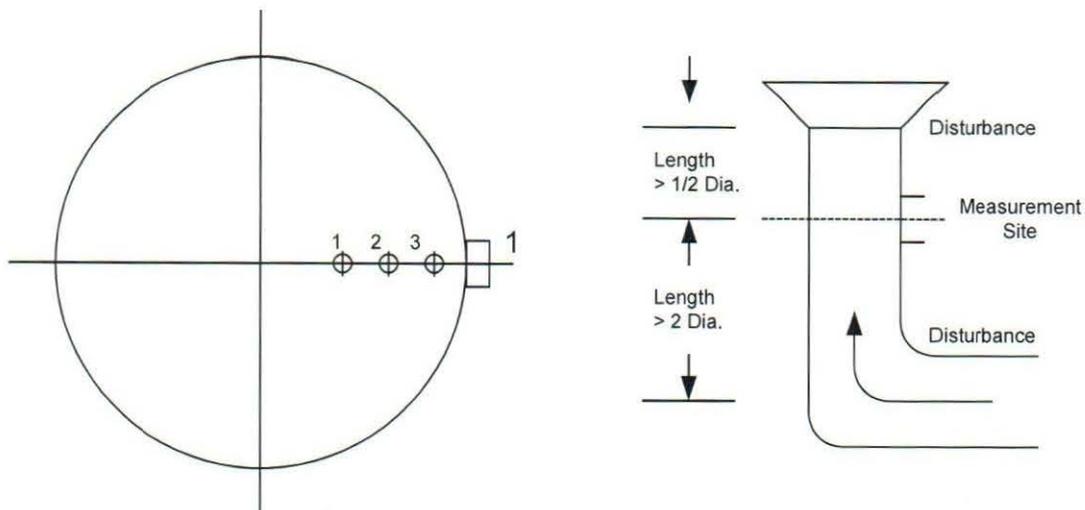
VOC Run Detail Report

Plant: NCG Test: 9/15/2023 2:12:00 PM Operating Lev: H
 Source: UHIT03 Parameter: NOx&MM Run Number: 3, Parts 1-3

Date/Time	NOxMM	LOAD	COBHR	COBMM	COBPPM	COBPPM	HEATM	NOxPPM	NOxPPM	O2
09/15/2023 12:39	0.001599	382.406400	1.8454075	0.000742	0.3689745	0.2562252	2.691 8713800	2.7152453	1.9112892	12.4070515
09/15/2023 12:40	0.006942	381.767990	1.973614	0.0005875	0.3773514	0.2619727	2.685 8090100	2.6667331	1.8512957	12.4012147
09/15/2023 12:41	0.006328	381.8031240	0.7664485	0.0023863	0.1831401	0.1276494	2.676 9881100	2.5188107	1.7568929	12.4367857
09/15/2023 12:42	0.0061371	382.6196280	1.0100078	0.0009623	0.3603261	0.2927418	2.694 7582200	2.4085271	1.6748140	12.4221842
09/15/2023 12:43	0.0061371	382.5953890	2.0935692	0.0007774	0.4899072	0.3469699	2.692 4380500	2.4389949	1.6947068	12.4087336
09/15/2023 12:44	0.006645	382.7706980	1.8075675	0.0006720	0.4318538	0.2996892	2.689 8147400	2.8137490	1.8137269	12.3875844
09/15/2023 12:45	0.0069042	382.5014240	1.4017944	0.0005210	0.3390117	0.2323299	2.690 6097200	2.7432133	1.9023405	12.3920657
09/15/2023 12:46	0.0069042	382.6423320	2.1456600	0.0007971	0.5120111	0.3554796	2.690 6097200	2.6666677	1.8514001	12.4018176
09/15/2023 12:47	0.006328	382.5825890	2.0910310	0.0007793	0.5012453	0.3481414	2.694 3412300	2.5013561	1.7275131	12.3568076
09/15/2023 12:48	0.006328	382.0806280	2.0448765	0.0007801	0.5017034	0.3478967	2.684 3228200	2.4506649	1.7029507	12.3607407
09/15/2023 12:49	0.006328	382.3486830	2.2852714	0.0008498	0.5458778	0.3786448	2.691 2819300	2.5170030	1.7470269	12.3968630
09/15/2023 12:50	0.006435	382.2867890	2.1376066	0.0007940	0.5111553	0.3540379	2.692 0424500	2.5941775	1.7968898	12.3421969
09/15/2023 12:51	0.0069042	382.3023520	2.0371161	0.0007580	0.4873616	0.3384803	2.683 8385400	2.7008445	1.8758813	12.4049000
09/15/2023 12:52	0.0069042	382.3442940	1.6164437	0.0006008	0.3852566	0.2678358	2.695 1945100	2.7149089	1.8875500	12.4138896
09/15/2023 12:53	0.006435	383.2047440	0.9940342	0.0003680	0.2364275	0.1641139	2.699 2808300	2.5795493	1.7865153	12.4002283
09/15/2023 12:54	0.006328	382.6652610	1.8019774	0.0005951	0.3823335	0.2883867	2.692 9566000	2.4534238	1.7026969	12.3964686
09/15/2023 12:55	0.006328	382.2284830	1.8620698	0.0006172	0.3895479	0.2728338	2.691 4095900	2.4823979	1.7284663	12.4314231
09/15/2023 12:56	0.006435	383.8617980	1.0822001	0.0004012	0.2674010	0.1789254	2.698 0620400	2.5637469	1.7821358	12.4123986
09/15/2023 12:57	0.0069042	383.3914270	0.7440244	0.0002762	0.1774052	0.1232080	2.692 0852200	2.6871591	1.8669332	12.4032970
09/15/2023 12:58	0.001599	382.8328410	0.8296757	0.0002342	0.1004712	0.1045489	2.687 4342000	2.7889762	1.9049925	12.4008250
09/15/2023 12:59	0.0069042	383.2802400	1.0324751	0.0003637	0.2457509	0.1710801	2.692 9819600	2.6967852	1.8780867	12.4258969
09/15/2023 13:00	0.0069042	382.1937940	1.5940247	0.0004289	0.2749173	0.1912851	2.696 4603300	2.7468705	1.9110048	12.4193492
09/15/2023 13:01	0.001599	381.5605930	1.6341118	0.0005899	0.3781989	0.2620619	2.683 6279400	2.7582594	1.9105468	12.3954427
09/15/2023 13:02	0.0069042	382.1892800	1.9809351	0.0004470	0.2880475	0.1993041	2.681 1888800	2.6980462	1.8802566	12.4336879
09/15/2023 13:03	0.006328	382.2296900	1.9552742	0.0005040	0.3229401	0.2247480	2.689 6795200	2.5283780	1.7576882	12.4213995
09/15/2023 13:04	0.0061371	382.6681910	1.7400886	0.0004687	0.4138664	0.2883306	2.692 3845900	2.4200138	1.6862271	12.4324464
09/15/2023 13:05	0.006328	382.4005880	1.8975400	0.0007047	0.4831263	0.3142742	2.690 2350500	2.5058162	1.7378436	12.3924977
09/15/2023 13:06	0.0069042	381.8263340	2.0537543	0.0007644	0.4911239	0.3408387	2.689 0058200	2.6961222	1.8712047	12.3885046
09/15/2023 13:07	0.001599	381.4219410	1.8188918	0.0006032	0.3880371	0.2689942	2.682 8334900	2.7539207	1.8991148	12.3891127
09/15/2023 13:08	0.006435	380.4796780	1.8335329	0.0007228	0.4850611	0.3222558	2.676 6566800	2.6496800	1.8360333	12.3848959
09/15/2023 13:09	0.006328	381.3331430	1.7191607	0.0006401	0.4098870	0.2854769	2.685 3802300	2.4696772	1.7200430	12.4285115
09/15/2023 13:10	0.005814	382.4779410	1.6496979	0.0004128	0.3630544	0.2732440	2.693 6997100	2.2945137	1.5922107	12.3973780
09/15/2023 13:11	0.005814	382.0626500	1.6240029	0.0006038	0.3883644	0.2692560	2.689 1021000	2.2968974	1.5939072	12.3900778
09/15/2023 13:12	0.006435	382.3726490	1.3123247	0.0004876	0.3128026	0.2174425	2.692 1873000	2.5990369	1.7798110	12.4125886
09/15/2023 13:13	0.001599	381.9998740	1.8582268	0.0006167	0.3870261	0.2703506	2.691 1073100	2.8385120	1.9893219	12.3424069
09/15/2023 13:14	0.001599	381.7402900	1.3164498	0.0004902	0.3149990	0.2189536	2.687 0887400	2.8364653	1.9701130	12.4052296
09/15/2023 13:15	0.000814	382.1899510	1.3890158	0.0005172	0.3323513	0.2306187	2.688 4986200	2.2811437	1.5803545	12.3978823
09/15/2023 13:16	0.000814	382.4698970	1.534956	0.0004280	0.2746091	0.1908471	2.693 8415500	2.2970012	1.5884420	12.4012848
09/15/2023 13:17	0.006435	382.7805000	0.8021074	0.0003202	0.2080251	0.1428584	2.693 0962000	2.5785108	1.7889591	12.3680338
09/15/2023 13:18	0.0079270	382.2946370	1.5778947	0.0005870	0.3782151	0.2617944	2.686 1664500	2.6566651	2.1160256	12.3701172
09/15/2023 13:19	0.0069042	381.7114920	1.180154	0.0004160	0.2879149	0.1854833	2.683 2479900	2.8007081	1.8561065	12.3798854
09/15/2023 13:20	0.006366	382.5302580	1.8298194	0.0005684	0.3622785	0.2525885	2.690 8201800	2.1228670	1.4797779	12.4368182
09/15/2023 13:21	0.005814	382.4830640	1.3332941	0.0004956	0.3187355	0.2209699	2.690 9291700	2.2090961	1.6003343	12.3902706
09/15/2023 13:22	0.001599	383.3678720	1.4711980	0.0004546	0.3615306	0.2432732	2.688 0811200	2.8147971	1.9478996	12.3748540
09/15/2023 13:23	0.0079270	383.1998790	1.7899978	0.0006635	0.4276688	0.2958838	2.696 2736700	3.0794128	2.1284453	12.3668884
09/15/2023 13:24	0.0061371	383.0630000	1.9593079	0.0007276	0.4881828	0.3243824	2.696 1988000	2.4249696	1.6804384	12.3845257
09/15/2023 13:25	0.006256	383.4523990	1.7681737	0.0006957	0.4216703	0.2934073	2.696 0278800	2.1992223	1.5384384	12.3918864
09/15/2023 13:26	0.0074156	383.5689710	1.8466945	0.0008836	0.4404276	0.3048398	2.700 2415100	2.8959326	2.0039059	12.3780722
09/15/2023 13:27	0.0081828	382.6804580	1.5781984	0.0005687	0.3777329	0.2618372	2.690 8160100	2.2402288	2.2438148	12.3811256
09/15/2023 13:28	0.006256	382.8699980	1.7184707	0.0006381	0.4101795	0.2848820	2.691 2889000	2.2032050	1.6266775	12.3906208
09/15/2023 13:29	0.0004298	382.8746980	1.9724488	0.0006086	0.3282104	0.2272875	2.694 1025800	2.1558844	1.6929002	12.3799540
09/15/2023 13:30	0.0074156	382.7479780	1.8547869	0.0005400	0.3471942	0.2407777	2.693 8747800	2.9295148	2.0289529	12.3926204
09/15/2023 13:31	0.0078713	383.1902480	1.6887043	0.0005447	0.3494821	0.2439653	2.699 3752200	3.0127318	2.0640968	12.4117728
09/15/2023 13:32	0.0061371	382.7687930	0.9690221	0.0003597	0.2315842	0.1604021	2.692 9411100	2.3951040	1.6988873	12.3622703
09/15/2023 13:33	0.006256	382.7093990	1.2791078	0.0004748	0.3055507	0.2116371	2.694 4789100	2.2178315	1.5361807	12.3819653
09/15/2023 13:34	0.0061371	382.5522720	1.9633354	0.0003948	0.2942388	0.1760703	2.695 1934700	2.3930064	1.6972665	12.3800988
09/15/2023 13:35	0.0074156	383.1454610	1.8420030	0.0006173	0.3896121	0.2732774	2.692 3469000	2.9467957	2.0451686	12.3888305
09/15/2023 13:36	0.0074156	383.0120600	1.3414305	0.0004996	0.3198042	0.2214868	2.701 2489400	2.8854981	1.9961211	12.3797733
09/15/2023 13:37	0.0069042	383.4148320	1.3123204	0.0004867	0.3132320	0.2170226	2.695 3004200	2.6857142	1.8604549	12.3849402
09/15/2023 13:38	0.006328	383.6192700	1.897990	0.0004604	0.2823879	0.1863992	2.702 1452200	2.4534453	1.7032769	12.4015808
09/15/2023 13:39	0.0061371	384.2025450	1.4468807	0.0005354	0.3454179	0.2387386	2.702 2842800	2.3577397	1.6298722	12.3645882
09/15/2023 13:40	0.006328	384.0995980	1.8549294	0.0006881	0.4423602	0.3059498	2.702 2849500	2.4862419	1.7195390	12.3693187
09/15/2023 13:41	0.0069042	383.4718990	2.0971449	0.0007448	0.4802748	0.3320648	2.699 8746800	2.7145833	1.8784507	12.3644766
09/15/2023 13:42	0.0069042	382.8092648	1.5268807	0.0005673	0.3646113	0.2529628	2.691 7865444	2.5938666	1.7997582	12.3970183
Valid Minutes	63	63	63	63	63	63	63	63	63	63
Round Precision	3	0	1	3	1	1	1	1	1	1
Rounded Average	0.007	383	1.5	0.001	0.4	0.3	2.691 8	2.8	1.8	12.4

Appendix B - Test Section Diagrams

GASEOUS TRAVERSE FOR ROUND DUCTS



Job: Consumers Energy Energy
Covert Generating StationCovert
Covert, Michigan

Date: September 13, 20233

Test Location: Unit 001 Stack

Stack Diameter: 22.083 Feet83 Feet

Stack Area: 383.02 Square Feet

Upstream Disturbance: 240 Inches (0.91 diameters)

Downstream Disturbance: 1,020 Inches (3.85 diameters)

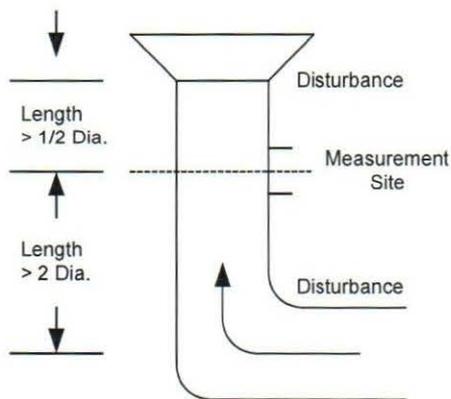
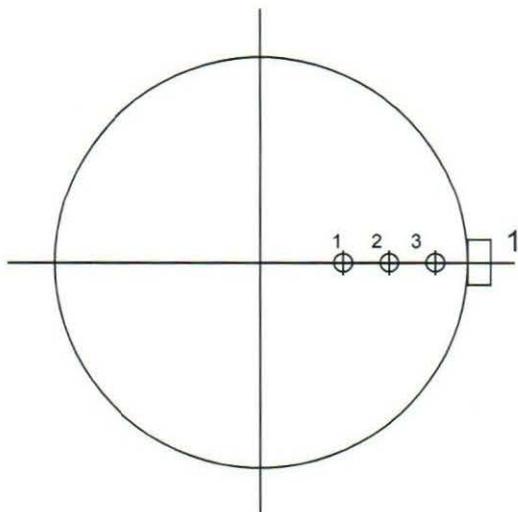
No. Sample Points: 3

Port Length: 12 Inches

Distance from Inside Wall
To Traverse Point:

1. 2.0 Meters
2. 1.2 Meters
3. 0.4 Meters

GASEOUS TRAVERSE FOR ROUND DUCTS



Job: Consumers Energy
Covert Generating Station
Covert, Michigan

Date: September 14, 2023

Test Location: Unit 002 Stack

Stack Diameter: 22.083 Feet

Stack Area: 383.02 Square Feet

Upstream Disturbance: 240 Inches (0.91 diameters)

Downstream Disturbance: 1,020 Inches (3.85 diameters)

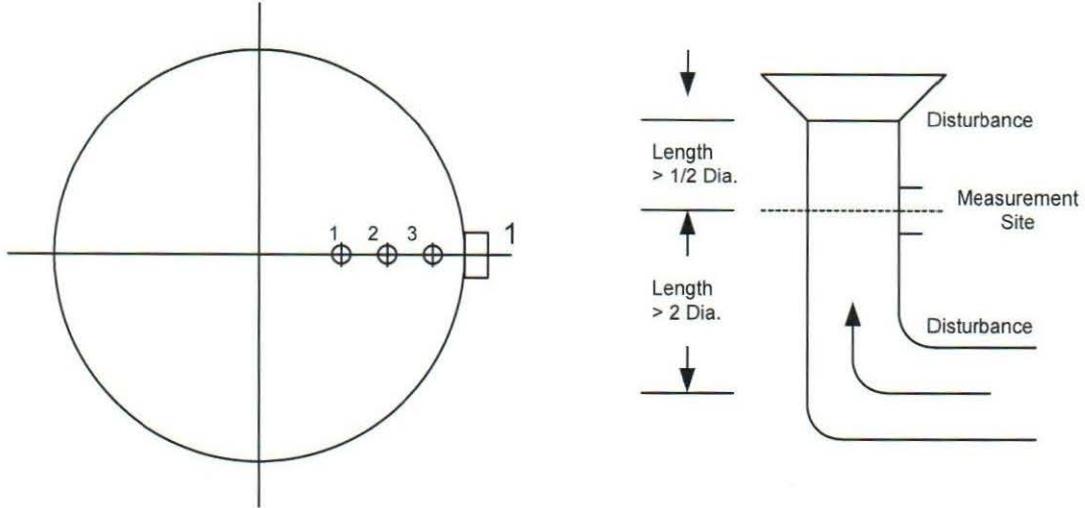
No. Sample Points: 3

Port Length: 12 Inches

Distance from Inside Wall
To Traverse Point:

1. 2.0 Meters
2. 1.2 Meters
3. 0.4 Meters

GASEOUS TRAVERSE FOR ROUND DUCTS



Job: Consumers Energy
Covert Generating Station
Covert, Michigan

Date: September 15, 2023

Test Location: Unit 003 Stack

Stack Diameter: 22.083 Feet

Stack Area: 383.02 Square Feet

Upstream Disturbance: 240 Inches (0.91 diameters)

Downstream Disturbance: 1,020 Inches (3.85 diameters)

No. Sample Points: 3

Port Length: 12 Inches

Distance from Inside Wall
To Traverse Point:

1. 2.0 Meters
2. 1.2 Meters
3. 0.4 Meters

Appendix C - Sample Train Diagram

USEPA Methods 3A, 25A, and 320 – Sample Train Diagram

