



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
TIDEWATER REGIONAL OFFICE

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David K. Paylor
Director

Maria R. Nold
Regional Director

Molly Joseph Ward
Secretary of Natural Resources

COMMONWEALTH OF VIRGINIA Department of Environmental Quality Tidewater Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Naval Station Norfolk
Sewell's Point, Norfolk, Virginia
Permit No. TRO-60941

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Naval Station Norfolk has applied for a Title V Operating Permit for its Norfolk, Virginia facility. The Department has reviewed the application and has prepared a draft Title V Operating Permit.

Air Permit Writer:

Lindsey M. Evans
(757) 518-2168

Date: **December 19, 2014**

Regional Air Permits
Manager:

Troy D. Breathwaite

Date: **December 22, 2014**

Regional Director:

Maria R. Nold

Date: _____

I. FACILITY INFORMATION

Permittee

U.S. Department of the Navy

Responsible Official

Sean S. Heaney
Director, Environmental Compliance
Commander Navy Region Mid-Atlantic

Facility

Naval Station Norfolk
Sewell's Point
Norfolk, Virginia

Contact Person

Leal Boyd
Air Program Manager
(757) 341-0387
County-Plant Identification Number: 51-710-00194

SOURCE DESCRIPTION

NAICS Code: 928110 - National Security

The facility is the public works/operations, supply and maintenance department at the home port of the Navy's Atlantic Fleet. No products are manufactured at the facility. There is not one distinct, overriding "process" conducted at this facility. Instead, various activities and operations are conducted primarily to support the ships and aircraft of the Navy Atlantic Fleet. Processes include, but are not limited to: external combustion units (boilers for steam heat and industrial use); internal combustion engines (diesel emergency generators); surface coating operations for maintenance of marine vessels, aircraft, and facilities; abrasive blasting related to marine vessels and aircraft maintenance; and woodworking shops for facility maintenance, packing, and shipping.

The facility is a Title V major source of NO_x, CO, PM-10, SO₂, VOC, and HAPs. This source is located in an attainment area for all pollutants, and is a PSD-sized source. The facility is not permitted under a PSD permit. The facility is currently permitted under several Minor NSR Permits dated February 18, 2010, August 10, 2011, November 17, 2011, November 21, 2011, November 22, 2011, November 23, 2011, December 14, 2011, and September 24, 2012.

COMPLIANCE STATUS

A full compliance evaluation of this facility, including a site visit, was conducted on August 23, 2013. In addition, all reports and other data required by permit conditions or regulations, which are submitted to DEQ, are evaluated for compliance. Based on these compliance evaluations, the facility has been found to be out of compliance with NSPS Subparts IIII and JJJJ, MACT Subpart ZZZZ, and 40 CFR 82, Subpart F (Protection of Stratospheric Ozone: Recycling and Emissions Reduction). A detailed Compliance Plan is included in Section XV of the Title V permit to address these federal requirements.

II. EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION

The emission units at this facility consist of the following:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
Boilers							
BOIL-NH202	STBOIL-NH202	Nebraska N2S-4A-72 (installed 9/1985)	95 MMBtu/hr				February 18, 2010
BOIL-P1-55	STBOIL-P1-55	Riley P8195 (installed 1939)	82 MMBtu/hr	Multicyclone	CDBOIL-P1-55	PM, PM10	February 18, 2010
BOIL-P1-56	STBOIL-P1-56	Riley P819W (installed 1941)	82 MMBtu/hr	Multicyclone	CDBOIL-P1-56	PM, PM10	February 18, 2010
BOIL-P1-57	STBOIL-P1-57	Riley P819W (installed 1941)	82 MMBtu/hr	Multicyclone	CDBOIL-P1-57	PM, PM10	February 18, 2010
BOIL-P1-58	STBOIL-P1-58	Riley NB 2642 (installed 1975)	235 MMBtu/hr				February 18, 2010
BOIL-P1-59	STBOIL-P1-59	Combustion Engineering CE3731 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-59	PM, PM10	February 18, 2010
BOIL-P1-60	STBOIL-P1-60	Combustion Engineering CE6733 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-60	PM, PM10	February 18, 2010
BOIL-P1-61	STBOIL-P1-61	Combustion Engineering CE3736 (installed 1941)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-61	PM, PM10	February 18, 2010
BOIL-P1-62	STBOIL-P1-62	Combustion Engineering CE2848 (installed 1944)	125 MMBtu/hr	Multicyclone	CDBOIL-P1-62	PM, PM10	February 18, 2010
BOIL-SP85-042	STBOIL-SP85-042	Riley-Stoker 9352038 (installed 1942)	95 MMBtu/hr	Multicyclone	CDBOIL-SP85-042	PM, PM10	February 18, 2010
BOIL-SP85-043	STBOIL-SP85-043	Riley, Model Number Unknown (installed 1942)	95 MMBtu/hr	Multicyclone	CDBOIL-SP85-043	PM, PM10	February 18, 2010
BOIL-Z312-25	STBOIL-Z312-25	Mitsui MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-25	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
BOIL-Z312-26	STBOIL-Z312-26	Mitsui MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-26	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				
BOIL-Z312-27	STBOIL-Z312-27	Mitsui, MB200 type D (installed 7/1995)	205.8 MMBtu/hr (natural gas)	Multicyclone	CDBOIL-Z312-27	PM, PM10	February 18, 2010
			196.5 MMBtu/hr (No. 2 fuel)				
BOIL-GRP-#2	Various	#2 oil-fired boilers	< 1 MMBTU/hr each				
BOIL-GRP-NG	Various	NG-fired boilers	< 10 MMBTU/hr each				
Generators/Engines							
ICGF-A128	STICGF-A128	Emergency Generator; Detroit Diesel; No. 2 fuel	45 kW				
ICGF-A48	STICGF-A48	Emergency Generator; Perkins AH50798; No. 2 fuel	60 kW				
ICGF-A81	STICGF-A81	Emergency Generator; GM; No. 2 fuel	100 kW				
ICGF-B30	STICGF-B30	Emergency Generator; CAT 3306; No. 2 fuel	230 kW				
ICGF-BEN154	STICGF-BEN154	Emergency Generator; Cummins 4B-3.9; No. 2 fuel	15 kW				
ICGF-C9	STICGF-C9	Emergency Generator; Cummins 4BT3.9-G2; No. 2 fuel	60 kW				
ICGF-CA10	STICGF-CA10	Emergency Generator; Generac OA9046; Natural Gas	40 kW				
ICGF-CA482-1	STICGF-CA482-1	Emergency Generator; Allis-Chalmers 3400; No. 2 fuel	50 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-CA482-2	STICGF-CA482-2	Emergency Generator; Generac 64238; No. 2 fuel	60 kW				
ICGF-CA6	STICGF-CA6	Emergency Generator; Kohler 100REOZJF; John Deere Engine 4045HF285I; No. 2 fuel	100 kW				
ICGF-CD13-100	STICGF-CD13-100	Emergency Generator; Caterpillar 3306; No. 2 fuel	100 kW				
ICGF-CD13-350	STICGF-CD13-350	Emergency Generator; Kohler 350RE0z00; No. 2 fuel	350 kW				
ICGF-CD2	STICGF-CD2	Emergency Generator; Caterpillar 3306; No. 2 fuel	180 kW				
ICGF-CD3	STICGF-CD3	Emergency Generator; GM 10637000; No. 2 fuel	90 kW				
ICGF-CD7-100	STICGF-CD7-100	Emergency Generator; Unknown; No. 2 fuel	100 kW				
ICGF-CD7-50	STICGF-CD7-50	Emergency Generator; Perkins LJ30120; No. 2 fuel	50 kW				
ICGF-CEP113-200	STICGF-CEP113-200	Emergency Generator; International GCD325; No. 2 fuel	200 kW				
ICGF-CEP113-30	STICGF-CEP113-30	Emergency Generator; Perkins; No. 2 fuel	30 kW				
ICGF-CEP151	STICGF-CEP151	Emergency Generator; Perkins 5PKXL04.4RE1; No. 2 fuel	30 kW				
ICGF-CEP156-1000	STICGF-CEP156-1000	Emergency Generator; Caterpillar 3512; No. 2 fuel	1,000 kW				
ICGF-CEP156-65	STICGF-CEP156-65	Emergency Generator; John Deere 4045TF150; No. 2 fuel	65 kW				

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICPF-CEP158	STICPF-CEP158	Emergency Fire Pump; Detroit Diesel DDFP-03AN7002S; No. 2 fuel	99 hp				
ICGF-CEP160	STICGF-CEP160	Emergency Generator; Perkins CM51035; No. 2 fuel	20 kW				
ICGF-CEP161	STICGF-CEP161	Emergency Generator; Kohler 30 RZG; Natural gas	33 kW				
ICGF-CEP167	STICGF-CEP167	Emergency Generator; Kohler 60REOZJD; John Deere Engine 5030HF285G; No. 2 fuel	60 kW				
ICGF-CEP183	STICGF-CEP183	Emergency Generator; GM 50348100; No. 2 fuel	38 kW				
ICGF-CEP186	STICGF-CEP186	Emergency Generator; Generac SC150; No. 2 fuel	150 kW				
ICPF-CEP187	STICPF-CEP187	Emergency Fire Pump; Caterpillar 3406BDI; No. 2 fuel	306 hp				
ICGF-CEP209	STICGF-CEP209	Emergency Generator; Generac Part No. 92461; No. 2 fuel	125 kW				December 14, 2011
ICGF-CEP4	STICGF-CEP4	Emergency Generator; Cummins 6CTA8.3-G; No. 2 fuel	150 kW				
ICGF-CEP9	STICGF-CEP9	Emergency Generator; Kohler 250REOZJE; John Deere engine 6090HF484B; No. 2 fuel	250 kW				
ICGF-D29	STICGF-D29	Emergency Generator; Caterpillar 3412, No. 2 fuel	800 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-GATE2-E2	STICGF-GATE2-E2	Emergency Generator; Mitsubishi Engine No. 0D5825; No. 2 fuel	100 kW				
ICGF-NM149	STICGF- NM149	Emergency Generator; John Deere 4045TF270E	60 kW				
ICGF-GATE3-U89	STICGF-GATE3-U89	Emergency Generator; Onan L423D-1/10395C; No. 2 fuel	20 kW				
ICGF-GATE4-SP308	STICGF-GATE4-SP308	Emergency Generator; Onan L423DX/10390C; No. 2 fuel	20 kW				
ICGF-GATE5-CEP152	STICGF-GATE5-CEP152	Emergency Generator; Perkins YB51047; No. 2 fuel	100 kW				
ICGF- NH75	STICGF- NH75	Emergency Generator; John Deere 4045TF150; No. 2 fuel	62 kW				
ICGF-IAA	STICGF-IAA	Emergency Generator; Perkins YB51047; No. 2 fuel	100 kW				
ICGF-Kbb-125	STICGF-Kbb-125	Emergency Generator; Caterpillar 3116; No. 2 fuel	125 kW				
ICGF-Kbb-20	STICGF-Kbb-20	Emergency Generator; John Deere 3029; No. 2 fuel	20 kW				
ICGF-LAG110	STICGF-LAG110	Emergency Generator; Caterpillar 3304PC; No. 2 fuel	60 kW				
ICGF-R4	STICGF-R4	Emergency Generator; Caterpillar 3054; No. 2 fuel	75 kW				
ICGF-LF53	STICGF-LF53	Emergency Generator; No. 2 fuel	123 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICPF-LF60	STICPF-LF60	Emergency Fire Pump; Cummins V-378-F2; No. 2 fuel	135 hp				
ICGF-LF62	STICGF-LF62	Emergency Generator; No. 2 fuel	75 kW				
ICGF-LF67	STICGF-LF67	Emergency Generator; Caterpillar C9; No. 2 fuel	300 kW				
ICGF-LP100	STICGF-LP100	Emergency Generator; Perkins LJ50413; No. 2 fuel	50 kW				
ICGF-LP165	STICGF-LP165	Emergency Generator; Perkins 2320/1500; No. 2 fuel	30 kW				
ICGF-LP166	STICGF-LP166	Emergency Generator; Generac 21696; No. 2 fuel	80 kW				
ICGF-LP205	STICGF-LP205	Emergency Generator; Detroit Diesel; DYNC14101-000-0-24; No. 2 fuel	410 kW				
ICGF-LP209	STICGF-LP209	Emergency Generator; Detroit Diesel Series 60; No.2 fuel	265 kW				
ICGF-LP 210	STICGF-LP 210	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW				
ICGF-LP212	STICGF-LP212	Emergency Generator; Detroit Diesel Series 60; No. 2 fuel	275 kW				
ICGF-LP33	STICGF-LP33	Emergency Generator; No. 2 fuel	155 kW				
ICGF-LP43	STICGF-LP43	Emergency Generator; No. 2 fuel	75 kW				
ICGF-LP48	STICGF-LP48	Emergency Generator; Kohler GM-8.1L; Natural Gas	100 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-LP74	STICGF-LP74	Emergency Generator; No.2 fuel	35 kW				
ICGF-LP82	STICGF-LP82	Emergency Generator; Caterpillar 3054C; No. 2 fuel	60 kW				
ICGF-M51-1	STICGF-M51-1	Emergency Generator; Caterpillar 3508; No. 2 fuel	800 kW				Exemption Dated May 8, 1997
ICGF-M51-2	STICGF-M51-2	Emergency Generator; Caterpillar 3508; No. 2 fuel	800 kW				Exemption Dated May 8, 1997
ICGF-M51-3	STICGF-M51-3	Emergency Generator; Caterpillar 3512; No. 2 fuel	800 kW				
ICGF-M51-chiller	STICGF-M51-chiller	Emergency Generator; Caterpillar 3508; No. 2 fuel	825 kW				
ICGF-M51-GBS	STICGF-M51-GBS	Emergency Generator; Cummins NTA-855-G5; No. 2 fuel	400 kW				
ICGF-N25A	STICGF-N25A	Emergency Generator; Cummins N743PG220; No. 2 fuel	199 kW				
ICGF-N26-100	STICGF-N26-100	Emergency Generator; John Deere RE522528; No. 2 fuel	100 kW				
ICGF-N26-230	STICGF-N26-230	Emergency Generator; Caterpillar 3306; No. 2 fuel	230 kW				
ICGF-N26-60-1	STICGF-N26-60-1	Emergency Generator; John Deere 06BE686484; No. 2 fuel	60 kW				
ICGF-N26-60-2	STICGF-N26-60-2	Emergency Generator; Detroit Diesel; No. 2 fuel	60 kW				
ICGF-N12A	STICGF-N12A	Emergency Generator; John Deere 6076AF011; No. 2 fuel	180 kW				
ICFG-NH139-1	STICFG-NH139-1	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-NH139-2	STICGF-NH139-2	Emergency Generator; Caterpillar 3412; No. 2 fuel	600 kW				
ICGF-NH139-3	STICGF-NH139-3	Emergency Generator; Caterpillar 3412; No. 2 fuel	500 kW				
ICGF-NH142	STICGF-NH142	Emergency Generator; No. 2 fuel	30 kW				
ICGF-NH154-310	STICGF-NH154-310	Emergency Generator; Caterpillar 3408DZ; No. 2 fuel	310 kW				
ICGF-NH154-350	STICGF-NH154-350	Emergency Generator; Cummins NTA-855-G3; No. 2 fuel	350 kW				
ICGF-NH19-1	STICGF-NH19-1	Emergency Generator; Caterpillar 3412; No. 2 fuel	425 kW				
ICGF-NH19-2	STICGF-NH19-2	Emergency Generator; Caterpillar 3412; No. 2 fuel	425 kW				
ICGF-NH19-3	STICGF-NH19-3	Emergency Generator; Caterpillar 3412; No. 2 fuel	500 kW				
ICGF-NH26	STICGF-NH26	Emergency Generator; Caterpillar 3408D1; No. 2 fuel	332 kW				
ICGF-NH31-275	STICGF-NH31-275	Emergency Generator; Caterpillar 3406-B-D1; No. 2 fuel	275 kW				
ICGF-NH31-400	STICGF-NH31-400	Emergency Generator; Caterpillar 3406; No. 2 fuel	400 kW				
ICGF-NH32	STICGF-NH32	Emergency Generator; Volvo TAD1641GE; No. 2 fuel	505 kW				
ICGF-NH33	STICGF-NH33	Emergency Generator; Caterpillar 3465; No. 2 fuel	500 kW				
ICGF-NH35	STICGF-NH35	Emergency Generator; No. 2 fuel	35 kW				

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-NH36	STICGF-NH36	Emergency Generator; Cummins 4BT3.9-G2; No. 2 fuel	60 kW				
ICGF-NH41-E	STICGF-NH41-E	Emergency Generator; Cummins NT855G4; No. 2 fuel	150 kW				
ICGF-NH41-W	STICGF-NH41-W	Emergency Generator; Perkins 1869/1800; No. 2 fuel	125 kW				
ICGF-NH46	STICGF-NH46	Emergency Generator; No. 2 fuel	1,250 kW				Exemption Dated April 14, 2011
ICGF-NH74	STICGF-NH74	Emergency Generator; Perkins 2330/1500; No. 2 fuel	100 kW				
ICGF-NH8-1	STICGF-NH8-1	Emergency Generator; Caterpillar 3304BD1; No. 2 fuel	125 kW				
ICGF-NH8-2	STICGF-NH8-2	Emergency Generator; John Deere 6059TF001; 100 kW	100 kW				
ICGF-NH8-3	STICGF-NH8-3	Emergency Generator; John Deere 6059TF001; No. 2 fuel	100 kW				
ICGF-NH94-1A	STICGF-NH94-1A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW				November 23, 2011
ICGF-NH94-2A	STICGF-NH94-2A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW				November 23, 2011
ICGF-NH94-3A	STICGF-NH94-3A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW				November 23, 2011
ICGF-NH94-4A	STICGF-NH94-4A	Emergency Generator; Caterpillar 3516B; No.2 fuel	2,250 kW				November 23, 2011
ICGF-NH95	STICGF-NH95	Emergency Generator; Cummins NT-855-G4; No. 2 fuel	200 kW				

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-NM154	STICGF-NM154	Emergency Generator; No. 2 fuel	50 kW				
ICGF-NM176	STICGF-NM176	Emergency Generator; Detroit Diesel 10437000; No. 2 fuel	90 kW				
ICGF-NM59A	STICGF-NM59A	Emergency Generator; Caterpillar D343; No. 2 fuel	200 kW				
ICGF-NM72	STICGF-NM72	Emergency Generator; Caterpillar 3208; No. 2 fuel	150 kW				
ICGF-NM75	STICGF-NM75	Emergency Generator; John Deere 2625F; No. 2 fuel	35 kW				
ICGF-O25	STICGF-O25	Emergency Generator; Allis Chalmers 670T; No. 2 fuel	75 kW				
ICGF-O27	STICGF-O27	Emergency Generator; Caterpillar; No. 2 fuel	1000 kW				
ICGF-P1-1	STICGF-P1-1	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW				February 18, 2010
ICGF-P1-2	STICGF-P1-2	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW				February 18, 2010
ICGF-P1-3	STICGF-P1-3	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW				February 18, 2010
ICGF-P1-4	STICGF-P1-4	Emergency Generator; Caterpillar 3516TA; No. 2 fuel (installed 1993)	1,600 kW				February 18, 2010
ICGF-P65/P71	STICGF-P65/P71	Emergency Generator; Generac 3285B-1263B; No. 2 fuel	125 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-P68	STICGF-P68	Emergency Generator; Kohler 100REOZJG; John Deere engine 4045HF275H; No. 2 fuel	100 kW				
ICGF-P89	STICGF-P89	Emergency Generator; Mitsubishi Engine No. 025825; No. 2 fuel	100 kW				
ICGF-PIER14	STICGF-PIER14	Emergency Generator; No. 2 fuel	60 kW				
ICGF-Q1	STICGF-Q1	Emergency Generator; Mitsubishi Block No. 4D34- J91289; No. 2 fuel	60 kW				
ICGF-Q81	STICGF-Q81	Emergency Generator; Generac SD250; No. 2 fuel	250 kW				
ICGF-Q95	STICGF-Q95	Emergency Generator; Generac SD150; No. 2 fuel	150 kW				
ICPF-Q95	STICPF-Q95	Emergency Fire Pump; Cummins NT-885-F4; No. 2 fuel	320 hp				
ICGF-R43	STICGF-R43	Emergency Generator; Cummins 4B-3.9; No. 2 fuel	15 kW				
ICGF-NM90g	STICGF-NM90g	Emergency Generator; John Deere 3029TF270	30 kW				
ICGF-LP90g	STICGF-LP90g	Emergency Generator; John Deere 3029TF270D	30 kW				
ICGF-SDA313A	STICGF-SDA313A	Emergency Generator; Caterpillar D125-6; No. 2 fuel	125 kW				
ICGF-SDA332	STICGF-SDA332	Emergency Generator; John Deere 6090; No. 2 fuel	250 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-SP300	STICGF-SP300	Emergency Generator; Kohler REOZJB; John Deere engine 6068TF250	125 kW				
ICGF-SP368	STICGF-SP368	Emergency Generator; Kohler 100REOZJF; John Deere engine 4045HF285I; No. 2 fuel	100 kW				
ICGF-SP381	STICGF-SP381	Emergency Generator; Generac; Propane	25 kW				
ICGF-SP65	STICGF-SP65	Emergency Generator; Detroit Diesel 7084-7200; No. 2 fuel	100 kW				
ICGF-SP73-250	STICGF-SP73-250	Emergency Generator; Detroit Diesel Series 60; No. 2 fuel	250 kW				
ICGF-SP73-365	STICGF-SP73-365	Emergency Generator; No. 2 fuel	365 kW				
ICGF-SP77	STICGF-SP77	Emergency Generator; Basler 3SR4F3; No. 2 fuel	45 kW				
ICGF-SP97	STICGF-SP97	Emergency Generator; Kohler 50REOZJD; John Deere engine 4024HF285B; No. 2 fuel	50 kW				
ICGF-T26A	STICGF-T26A	Emergency Generator; Caterpillar 3306; No. 2 fuel	220 kW				
ICGF-U117	STICGF-U117	Emergency Generator; Marathon Electric 3412; No. 2 fuel	473 kW				
ICGF-U130	STICGF-U130	Emergency Generator; Kohler 100REOZJF; John Deere engine 4045HF285I; No. 2 fuel	100 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-U132-1	STICGF-U132-1	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW				
ICGF-U132-2	STICGF-U132-2	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW				
ICGF-U132-3	STICGF-U132-3	Emergency Generator; Caterpillar C27; No. 2 fuel	800 kW				
ICGF-V117	STICGF-V117	Emergency Generator; Perkins 3054; No. 2 fuel	54 kW				
ICGF-V29	STICGF-V29	Emergency Generator; Cummins 500DFEK; No. 2 fuel	500 kW				
ICGF-V53-25	STICGF-V53-25	Emergency Generator; Kohler 25REZG; Natural Gas	25 kW				
ICGF-V53-750	STICGF-V53-750	Emergency Generator; Caterpillar 3412; No. 2 fuel	750 kW				
ICGF-V64	STICGF-V64	Emergency Generator; Allis Chalmers 21000MKII; No. 2 fuel	175 kW				
ICGF-V66	STICGF-V66	Emergency Generator; Caterpillar 3408D1; No. 2 fuel	350 kW				
ICGF-V70	STICGF-V70	Emergency Generator; Caterpillar D100; No. 2 fuel	100 kW				
ICGF-V82	STICGF-V82	Emergency Generator; Cummins L423D-I/10390E; No. 2 fuel	20 kW				
ICGF-W143-1	STICGF-W143-1	Emergency Generator; Caterpillar 3512; No. 2 fuel	750 kW				
ICGF-W143-2	STICGF-W143-2	Emergency Generator; Caterpillar 3512; No. 2 fuel	750 kW				

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-W143-238	STICGF-W143-238	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW				November 21, 2011
ICGF-W143-239	STICGF-W143-239	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW				November 21, 2011
ICGF-W143-240	STICGF-W143-240	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW				November 21, 2011
ICGF-W143-241	STICGF-W143-241	Emergency Generator; Caterpillar 3512; No. 2 fuel (installed 5/2002)	1,250 kW				November 21, 2011
ICGF-W143-62	STICGF-W143-62	Emergency Generator; No. 2 fuel	62 kW				
ICGF-W146	STICGF-W146	Emergency Generator; Unknown; No. 2 fuel	15 kW				
ICGF-W147	STICGF-W147	Emergency Generator; Caterpillar 3408; No. 2 fuel	310 kW				
ICGF-W150A	STICGF-W150A	Emergency Generator; Perkins RE51225; No. 2 fuel	30 kW				
ICGF-W174	STICGF-W174	Emergency Generator; No. 2 fuel	90 kW				
ICGF-W313	STICGF-W313	Emergency Generator; Cummins 6BT5.9-G1; No. 2 fuel	80 kW				
ICGF-W385	STICGF-W385	Emergency Generator; Kohler 250REOZJE; John Deere engine 6090HF484B; No. 2 fuel	250 kW				
ICGF-W50A	STICGF-W50A	Emergency Generator; No. 2 fuel	30 kW				
ICGF-X132-13	STICGF-X132-13	Emergency Generator; Caterpillar/Perkins C1.5	13 kW				

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ICGF-X132-800	STICGF-X132-800	Emergency Generator; Caterpillar 3412; No. 2 fuel	800 kW				
ICPF-X134	STICPF-X134	Emergency Fire Pump; Caterpillar 3208; No. 2 fuel	120 hp				
ICPF-X136	STICPF-X136	Emergency Fire Pump; GM Detroit Diesel Allison; No. 2 fuel	61 kW				
ICGF-X137	STICGF-X137	Emergency Generator; Caterpillar 3208; No. 2 fuel	175 kW				
ICGF-X16	STICGF-X16	Emergency Generator; Generac Part No. 67057; No. 2 fuel	15 kW				
ICGF-Z133-75	STICGF-Z133-75	Emergency Generator; Caterpillar 3054; No. 2 fuel	75 kW				
ICGF-Z133-80	STICGF-Z133-80	Emergency Generator; Cummins 6VT-5.9; No. 2 fuel	80 kW				
ICGF-Z140	STICGF-Z140	Emergency Generator; Cummins 6BT5.9-G2; No. 2 fuel	100 kW				
ICGF-Z312-D	STICGF-Z312-D	Emergency Generator; Caterpillar 3512DITA; No. 2 fuel	1,100 kW				February 18, 2010
ICGF-Z312-NG	STICGF-Z312-NG	Emergency Generator; Ford LRG425; Natural Gas	20 kW				
Aerospace NESHAP Coating Operations							
PNT0-HM14		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HM15		Open hanger aircraft touchup – HVLP, aerosol, hand application					

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNT0-HSC2		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC5		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC7		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC9		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC11		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC22		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC26		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC28		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-HSC84		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-LP167		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNT0-MAG42/HMM774		Open hanger aircraft touchup – HVLP, aerosol, hand application					

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNTS-SP300-400	STPNTS-SP300-400	Paint booth, aircraft propellers – hand application only (installed 1/2005)	0.125 gal/hr coating				November 22, 2011
PNTS-SP300-500	STPNTS-SP300-500	Paint booth, aircraft parts – HVLP spray gun, aerosol, hand application	0.375 gal/hr coating	Fabric filter		PM, PM10	November 22, 2011
PNTS-SP300-600	STPNTS-SP300-600	Paint hood, aircraft electronic assemblies – aerosol and hand application		Fabric filter		PM, PM10	
PNTS-SP383-67 & PNTS-SP383-68	STPNTS-SP383-67 & STPNTS-SP383-68	Paint hoods (installed 1997), aircraft panels/corrosion school-HVLP spray, aerosol, and hand application		Fabric filter		PM, PM10	
PNTS-V146	STPNTS-V146-S & STPNTS-V146-N	Paint booth, helicopter – HVLP spray application (installed 12/2006)	5.4 gal/hr coating	HEPA filter		PM, PM10	August 10, 2011
PNTO-V147		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VAW120		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VAW121		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VAW123		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VAW124		Open hanger aircraft touchup – HVLP, aerosol, hand application					

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNTO-VAW125		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VAW126		Open hanger aircraft touchup – HVLP, aerosol, hand application					
PNTO-VRC40		Open hanger aircraft touchup – HVLP, aerosol, hand application					
CLNO-GRP-A	Various	Paint gun washers - Aerospace					
Ship NESHAP Coating Operations							
PNTO-A80		Pierside painting of floating cranes - spray gun, aerosol, and hand application					
PNTO-CEP165A		Outdoor painting of port operation vessels - aerosol and hand application.					
PNTS-CEP209	STPNTS-CEP209	Paint booth, boat parts – HVLP spray gun, aerosol, hand application	7.2 gal/hr coating	Dry filter		PM, PM10	December 14, 2011
PNTO-DIVE		Small boat painting - spray gun, aerosol, and hand application					
PNTO-PIER-KTR		Pierside ship painting, contractor – spray gun and hand application					
PNTO-PIER-NVY		Pierside ship painting, ships forces – hand application					

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
PNT0-PIER- TUG		Pierside tugboat touchup painting, Moran tugs – hand application					
PNT0-Q50		Pierside small boat touchup, oil recovery ops – hand application					
PNT0-SPRUCE		Pierside submarine touchup painting – hand application					
PNT0-V88		Open hanger small boat touchup – aerosol and hand application					
Other Coating Operations							
PNTS-SP356	STPNTS-SP356	Paint booth, ground support equipment – HVLP spray gun, aerosol, and hand application		Fabric filter		PM, PM10	
PNTS-W127	STPNTS-W127	Paint spray booth for Material Handling Equipment (MHE), equipped with HVLP spray guns	14.1 gal/hr	Fabric filters		PM, PM10	September 24, 2012
PNTS-X137	STPNTS-X137	Paint booth, currently inactive					
Miscellaneous Operations							
ABRA-SP356	STABRA-SP356	Drive-in abrasive blasting room (installed 1/1987)	0.5 tons/hr	Baghouse	CDABRA-SP356A and CDABRA-SP356B	PM, PM10	November 17, 2011

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutants Controlled	Applicable Permit Date
ABRA-V146	STABRA-V146-1, STABRA-V146-2, STABRA-V146-3, & STABRA-V146-4	Helicopter blast booth	1,000 lbs/hr (2 nozzles - 500 lbs/hr each nozzle)			PM, PM10	August 10, 2011
DEGS-GRP1		Degreasing and parts cleaning					
ENGT-SP313		Aircraft engine test cells					
GSTA-GRP1		Commercial gasoline/E85 service stations		Stage 1 Vapor Recovery		VOC, HAPS	
MISC-CEP209-100 & MISC-CEP209-101	STMISC-CEP209- 100 & STMISC-CEP209- 101	Fiberglass sanding & sawing (installed 5/2000)	0.24 lbs/hr (total) (fiberglass resin, hardener, and mesh)	Fabric filters	CDMISC- CEP209-100 and CDMISC- CEP209-101	PM, PM10	December 14, 2011
WOOD-GRP1	Various	Woodshops with outside vent		Cyclones and/or Baghouses		PM, PM10	
WOOD-PNT1		Wood NESHAP sources – hand application	≤ 1,200 gal/year				

Changes to the equipment list:

All tables have been combined for ease of reference and for consistency with the current Title V boilerplate.

The Stack ID numbers have been included.

BOIL-SP85-1 and BOIL-SP85-2 have been re-named BOIL-SP85-042 and BOIL-SP85-043.

BOIL-GRP-#2 (#2 oil-fired boilers) and BOIL-GRP-NG (natural gas-fired boilers) have been moved from the insignificant emission unit list. These units are now subject to MACT DDDDD (Major Source Boiler MACT). The Emission Unit ID's for each boiler are included in the table at the beginning of Section III.

The Emission Unit Descriptions and Sizes/Rated Capacities for ICGF-CA6, ICGF-CEP161, ICGF-CEP167, ICGF-CEP9, ICGF-P68, ICGF-U130, and ICGF-W385 have been updated. The Emission Unit Descriptions for ICGF-SP368 and ICGF-SP97 have also been updated. These generators have been replaced with new units.

The manufacture dates for ICGF-CD13-100, ICGF-CD7-50, ICGF-CEP-113-30, ICPF-CEP187, ICGF-Gate5-CEP152, ICGF-LP165, ICGF-N25A, ICGF-N26-60-1, ICGF-NH12A, ICGF-NH74, ICGF-NH8-2, ICGF-NH8-3, ICGF-W147, ICGF-W313, and ICPF-X134 have been corrected.

The installation dates for ICGF-LP33, ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, ICGF-NH94-4A, and ICGF-O27 have been corrected.

ICGF-LF60, ICGF-LF67, ICGF-SP300, ICGF-V29, and ICGF-V70 have been added. These are new small emergency fire pumps/generators that did not require minor NSR (Article 6) permitting.

ICGF-U132-1, ICGF-U132-2, and ICGF-U132-3 have also been added. These units are larger emergency diesel generators; however, the source has provided emissions calculations using manufacturer-supplied emission factors to show that they are exempt from minor NSR (Article 6) permitting.

ICGF-CEP187 has been re-named ICPF-CEP187. This unit is a fire pump, not a generator. The rated capacity units have been changed from kW (228 kW) to hp (306 hp) for consistency with the other listed fire pump units.

ICGF-Gate22-NM151 has been re-named ICGF-NM149.

ICGF-Gate5-NH75 has been re-named ICGF-NH75.

ICGF-LF4 has been re-named ICGF-R4 (the building that houses this unit was re-numbered).

ICGF-runway-E and ICGF-runway-W have been re-named ICGFNM90g and ICGF-LP90g.

The painting operations have been divided into Aerospace NESHAP Coating Operations (PNTS-AERO), Ship NESHAP Coating Operations (PNTS-SHIP), and Other Coating Operations (PNTS-OTHER) for clarity and consistency with the format of the rest of the permit.

PNTO-HM14-AERO and PNTO-HM15-AERO have been re-named PNTO-HM14 and PNTO-HM15.

PNTO-LP167 has been added.

PNTS-SP383-1 and PNTS-SP383-2 have been re-named PNTS-SP383-67 and PNTS-SP383-68.

PNTO-HM14-SHIP, PNTO-HM15-SHIP, and PNTO-V47 have been removed. According to the source, these small craft painting operations are performed off-site. These units have also been removed from the table at the beginning of Section VI.

PNTO-A80 has been added.

The Emission Unit Description for PNTO-CEP165A has been corrected to "outdoor painting of port operation vessels - aerosol and hand application."

PNTO-PIERS-DIVE has been re-named PNTO-DIVE. The Emission Unit Description has been corrected to "small boat painting - spray gun, aerosol, and hand application."

PNTS-W127 has been included. This unit was permitted in the September 24, 2012 NSR permit.

The Size/Rated Capacity for ABRA-V146 has been corrected to "1,000 lbs/hr (2 nozzles - 500 lbs/hr each nozzle)."

EMISSIONS INVENTORY

A copy of the 2012 emissions report is attached. Emissions are summarized in the following tables.

2012 Actual Emissions

	2012 Criteria Pollutant Emission in Tons/Year				
Emission Unit	VOC	CO	SO ₂	PM ₁₀	NO _x
Total	84.855	71.008	90.305	19.574	127.677

2012 Facility Hazardous Air Pollutant Emissions

Pollutant	2012 Hazardous Air Pollutant Emissions in Tons/Yr
Ammonia (NH ₃)	2.709
Lead (Pb)	0.002

III. EMISSION UNIT APPLICABLE REQUIREMENTS - Fuel Burning Equipment Requirements - (BOIL-NH202, BOIL-P1-55, BOIL-P1-56, BOIL-P1-57, BOIL-P1-58, BOIL-P1-59, BOIL-P1-60, BOIL-P1-61, BOIL-P1-62, BOIL-SP85-042, BOIL-SP85-043, BOIL-Z312-25, BOIL-Z312-26, BOIL-Z312-27, BOIL-GRP-#2, BOIL-GRP-NG, BOIL-GRP-LP)

A column referencing the Applicable Federal Requirements (NSPS Db and/or MACT DDDDD) for each unit has been included in the table at the beginning of this section for clarity.

The individual units of BOIL-GRP-#2 and BOIL-GRP-NG have been included in the table. These units are subject to the requirements of MACT DDDDD.

The note at the bottom of the table has been revised to reference the "steam plant boilers" to distinguish these boilers from the other MACT DDDD-applicable boilers added to the table.

Limitations

The following limitations are derived from the New Source Review permit issued February 18, 2010:

- Condition 1 (NSR Condition 3): Emission Controls
- Condition 2 (NSR Condition 4): Emission Controls
- Condition 3 (NSR Condition 5): Emission Controls
- Condition 4 (NSR Condition 10): Fuel
- Condition 5 (NSR Condition 11): Fuel
- Condition 6 (NSR Condition 12): Fuel
- Condition 7 (NSR Condition 13): Fuel
- Condition 8 (NSR Condition 14): Fuel
- Condition 9 (NSR Condition 15): Fuel Throughput
- Condition 10 (NSR Condition 16): Fuel
- Condition 11 (NSR Condition 17): Fuel Certification
- Condition 12 (NSR Condition 19): Fuel Certification
- Condition 13 (NSR Condition 20): Emission Limits
- Condition 14 (NSR Condition 22): Emission Limits
- Condition 15 (NSR Condition 23): Emission Limits
- Condition 16 (NSR Condition 24): Emission Limits
- Condition 17 (NSR Condition 25): Emission Limits
- Condition 18 (NSR Condition 26): Emission Limits
- Condition 19 (NSR Condition 27): Emission Limits
- Condition 20 (NSR Condition 28): Emission Limits
- Condition 21 (NSR Condition 29): Visible Emission Limit
- Condition 22 (NSR Condition 32): Visible Emission Limit
- Condition 23 (NSR Condition 31): Visible Emission Limit

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- 9 VAC 5-50-80 Standard for Visible Emissions for New and Modified Stationary Sources

9 VAC 5-50-260	BACT Standard for New and Modified Stationary Sources
9 VAC 5-50-400	EPA New Source Performance Standards (General)
9 VAC 5-50-410	EPA New Source Performance Standards (Designated standards of performance)
9 VAC 5-60-90	EPA Maximum Achievable Control Technology Standards (General)
9 VAC 5-60-100	EPA Maximum Achievable Control Technology Standards (Designated emission standards)

The following Codes of Federal Regulations have been determined to be applicable:

40 CFR 60, Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units
40 CFR 63, Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

The applicable limitations from MACT DDDDD are included in Conditions 24 and 25.

Testing and Monitoring

The monitoring requirements from the February 18, 2010 NSR permit for boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27 are included in Conditions 27 and 28. In accordance with the requirements of NSPS Db (§60.48b), the source is required to install and operate a continuous opacity monitor (COM) to continuously measure and record the opacity from each boiler and a continuous emission monitor (CEM) to continuously measure and record the concentration of NOx emitted from each boiler.

The applicable testing and monitoring requirements from MACT DDDDD are included in Conditions 29 and 30.

Additional periodic monitoring requirements which meet the requirements of Part 70 are outlined in Condition 26. The source is required to perform monthly visual emissions observations on each boiler stack (except boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27, which are equipped with a COM). If such visual observation indicates any visible emissions, the source is required to take corrective action to eliminate the visible emissions. If corrective action fails to eliminate the visible emissions, the source is required to conduct a Method 9 visible emissions evaluation (VEE) to determine compliance with the opacity limit in Condition 21. The source is required to maintain records of all visual emissions observations/VEEs. This condition has been revised from the previous permit to include more detailed recordkeeping requirements.

Notifications, Recordkeeping, and Reporting

Condition 31 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. The monthly throughput of natural gas and the daily throughput of distillate oil for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27).
- b. The annual throughput of natural gas and distillate oil, each, for the boilers (Ref. Nos. BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. All fuel supplier certifications.
- d. All emission calculations referenced in Conditions 17, 18, 19, and 20.
- e. Records of annual multicyclone inspections referenced in Condition 1.
- f. Records required in accordance with 40 CFR, Part 60, §60.49b, paragraphs (d), (f), and (g).
- g. Records of visual emissions observations, visible emissions evaluations, and any corrective action taken.

Condition 32 requires the source to submit semi-annual fuel quality reports. If no shipments of distillate oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include the following:

- a. Dates included in the semi-annual period,
- b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 11 for each shipment of distillate oil, and
- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility.

Condition 33 requires the source to submit semiannual reports of the weekly NO₂, SO₂, CO, and Beryllium emissions, equivalent (E_{NO_2} , E_{SO_2} , E_{CO} , and E_{Be}), as required by Conditions 17 through 20.

Condition 34 requires the source to submit quarterly excess emissions reports for boilers BOIL-Z312-25, BOIL-Z312-26, and BOIL-Z312-27, in accordance with the requirements of NSPS Db (§60.49b(h)).

Condition 35 requires the source to submit quarterly NO_x emission reports, in accordance with the requirements of NSPS Db (§60.49b(i)).

The applicable notification, recordkeeping, and reporting requirements from MACT DDDDD are included in Conditions 36 and 37.

**IV. EMISSION UNIT APPLICABLE REQUIREMENTS - Internal Combustion Engine
(Generators/Fire Pumps) Requirements - (See table in Section IV for Emission Unit ID's)**

All changes to the engine/generator equipment in the Equipment List in Section II (removals, additions, replacements, revisions) are included in the table at the beginning of this section.

Limitations

The following limitations are derived from the New Source Review permit issued February 18, 2010:

- Condition 38 (NSR Condition 8): Emergency Generator Use
- Condition 39 (NSR Condition 9): Fuel
- Condition 40 (NSR Condition 16): Fuel
- Condition 41 (NSR Condition 17): Fuel Certification
- Condition 42 (NSR Condition 21): Emission Limits
- Condition 43 (NSR Condition 30): Visible Emission Limit
- Condition 44 (NSR Condition 31): Visible Emission Limit

The following limitations are derived from the New Source Review permit issued November 23, 2011:

- Condition 45 (NSR Condition 3): Emergency Generator Use
- Condition 46 (NSR Condition 4): Fuel
- Condition 47 (NSR Condition 5): Fuel Throughput
- Condition 48 (NSR Condition 6): Fuel
- Condition 49 (NSR Condition 7): Fuel Certification
- Condition 50 (NSR Condition 8): Process Emission Limits
- Condition 51 (NSR Condition 9): Visible Emission Limit

The following limitations are derived from the New Source Review permit issued December 14, 2011:

- Condition 53 (NSR Condition 7): Operating Hours
- Condition 58 (NSR Condition 13): Process Emission Limits
- Condition 60 (NSR Condition 16): Visible Emission Limit

The following limitations are derived from the New Source Review permit issued November 21, 2011:

- Condition 54 (NSR Condition 3): Operating Hours
- Condition 59 (NSR Condition 7): Process Emission Limits
- Condition 61 (NSR Condition 8): Visible Emission Limit

The following limitations are derived from the New Source Review permits issued November 21, 2011 and December 14, 2011:

- Condition 55 (NSR Condition 4 (11/21/11), NSR Condition 8 (12/14/11)): Fuel

Condition 56 (NSR Condition 5 (11/21/11), NSR Condition 9 (12/14/11)): Fuel
Condition 57 (NSR Condition 6 (11/21/11), NSR Condition 10 (12/14/11)): Fuel Certification

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

9 VAC 5-50-80	Standard for Visible Emissions for New and Modified Stationary Sources
9 VAC 5-50-260	BACT Standard for New and Modified Stationary Sources
9 VAC 5-50-400	EPA New Source Performance Standards (General)
9 VAC 5-50-410	EPA New Source Performance Standards (Designated standards of performance)
9 VAC 5-60-90	EPA Maximum Achievable Control Technology Standards (General)
9 VAC 5-60-100	EPA Maximum Achievable Control Technology Standards (Designated emission standards)

The following Codes of Federal Regulations have been determined to be applicable:

40 CFR 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
40 CFR 60, Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
40 CFR 63, Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

The applicable limitations, monitoring, recordkeeping, and reporting requirements from NSPS IIII are included in Condition 62.

The applicable limitations, monitoring, recordkeeping, and reporting requirements from NSPS JJJJ are included in Condition 63.

The applicable limitations, monitoring, recordkeeping, and reporting requirements from MACT ZZZZ are included in Conditions 64 through 68.

All references to “non-emergency” engines have been removed. Naval Station Norfolk does not operate any non-emergency engines. Units ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, ICGF-NH94-4A, ICGF-P1-1, ICGF-P1-2, ICGF-PQ-3, and ICGF-P1-4 were previously identified as non-emergency engines under NSPS IIII and MACT ZZZZ because they participate in a demand response program; however, NSPS IIII and MACT ZZZZ have since been revised to include requirements for emergency engines that participate in demand response.

Monitoring

A periodic monitoring condition which meets the requirements of Part 70 has been included in Condition 69 for units ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, ICGF-

NH94-1A through 4A, and ICGF-W143-238 through 241. The source is required to perform annual Method 9 visible emissions evaluations (VEE) on each generator stack to determine compliance with the applicable opacity limits in Conditions 43, 44, 51, and 61. The source is required to maintain records of all VEEs.

Recordkeeping

Condition 70 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. The annual hours of operation for each emergency generator (Ref. Nos. ICGF-P1-1, ICGF-P1-2, ICGF-P1-3, ICGF-P1-4, ICGF-Z312-D, ICGF-CEP209, and ICGF-W143-238 through 241), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. A log documenting the reasons for operation of each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A), including interruption of service from the normal power supplier, periodic maintenance testing, operational training, and/or Pennsylvania New Jersey Maryland Interconnection, LLC (PJM) Emergency Load Response Program (ELRP) declared emergencies.
- c. Annual throughput of distillate oil (in gallons) for each emergency generator (Ref. Nos. ICGF-NH94-1A, ICGF-NH94-2A, ICGF-NH94-3A, and ICGF-NH94-4A), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- d. All fuel supplier certifications;
- e. Records of visible emissions evaluations, in accordance with EPA Method 9;
- f. Records as necessary to demonstrate compliance with 40 CFR 60, Subpart IIII, 40 CFR 60, Subpart JJJJ, and 40 CFR 63, Subpart ZZZZ for all applicable engines (see table at the beginning of Section IV).
- g. DEQ-approved, pollutant-specific emission factors and equations used to show compliance with the emission limits contained in Part A of this section of this permit.

Testing

The testing requirements from the November 23, 2011 NSR permit (NSR Condition 11) are included in Condition 71.

**V. EMISSION UNIT APPLICABLE REQUIREMENTS - Surface Coating Operations
Requirements - (PNTS-AERO)**

PNT0-HM14-AERO and PNT0-HM15-AERO have been re-named PNT0-HM14 and PNT0-HM15 in the table at the beginning of this section.

Limitations

The following limitations are derived from the New Source Review permit issued August 10, 2011:

- Condition 75 (NSR Condition 3): Emission Controls
- Condition 76 (NSR Condition 8): Throughput
- Condition 77 (NSR Condition 10): VOC Content
- Condition 78 (NSR Condition 11): HAP Content
- Condition 79 (NSR Condition 13): Emission Limits

The following limitations are derived from the New Source Review permit issued November 22, 2011:

- Condition 80 (NSR Condition 3): Emission Controls
- Condition 81 (NSR Condition 6): Process Emission Limits

The following limitations are derived from the New Source Review permits issued August 10, 2011 and November 22, 2011:

- Condition 73 (NSR Condition 5 (8/10/11); NSR Condition 4 (11/22/11)): VOC Work Practice Standards
- Condition 74 (NSR Condition 17 (8/10/11); NSR Condition 9 (11/22/11)): Emissions Testing
- Condition 82 (NSR Condition 14 (8/10/11); NSR Condition 7 (11/22/11)): Visible Emission Limit
- Condition 83 (NSR Condition 12 (8/10/11); NSR Condition 5 (11/22/11)): Requirements by Reference

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- | | |
|-----------------|--|
| 9 VAC 5-50-260 | BACT Standard for New and Modified Stationary Sources |
| 9 VAC 5-50-20 E | Compliance for New and Modified Stationary Sources
(Maintenance/Operating Requirements) |
| 9 VAC 5-50-20 F | Compliance for New and Modified Stationary Sources (Disposal of
Volatile Organic Compounds) |
| 9 VAC 5-60-90 | EPA Maximum Achievable Control Technology Standards
(General) |
| 9 VAC 5-60-100 | EPA Maximum Achievable Control Technology Standards
(Designated emission standards) |

The following Code of Federal Regulations has been determined to be applicable:

40 CFR 63, Subpart GG National Emission Standards for Aerospace Manufacturing and Rework Facilities

The new source maintenance/operating procedures requirements from 9 VAC 5-50-20 E are included in Condition 72.

The applicable limitations from MACT GG are included in Conditions 83 through 99.

Monitoring

The monitoring requirements from the August 10, 2011 NSR permit (NSR Conditions 6 and 7) are included in Conditions 100 and 101.

The applicable monitoring requirements from MACT GG are included in Conditions 102 and 103.

Recordkeeping and Reporting

Condition 104 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. Annual throughput of coatings (in gallons) to paint booth PNTS-V146. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months.
- b. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing VOC content and HAP content for each coating used in PNTS-SP300-500, PNTS-SP300-400, and PNTS-V146.
- c. Records of monitoring device observations.
- d. Records as applicable to ensure compliance with the requirements of 40 CFR 63 Subpart GG for PNTS-SP300-500, PNTS-SP300-400, and PNTS-V146.

The applicable recordkeeping and reporting requirements from MACT GG are included in Conditions 105 through 110.

VI. EMISSION UNIT APPLICABLE REQUIREMENTS - Surface Coating Operations Requirements - (PNTS-SHIP)

PNT0-A80 has been added to the table at the beginning of this section. PNT0-PIERS-DIVE has been re-named PNT0-DIVE. The Emission Unit Description has been corrected to "small boat painting - spray gun, aerosol, and hand application."

Limitations

The following limitations are derived from the New Source Review permit issued December 14, 2011:

- Condition 113 (NSR Condition 3): Emission Controls
- Condition 114 (NSR Condition 5): Throughput
- Condition 115 (NSR Condition 12): Process Emission Limits
- Condition 116 (NSR Condition 14): Visible Emission Limit
- Condition 117 (NSR Condition 11): Requirements by Reference

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- | | |
|-----------------|--|
| 9 VAC 5-50-260 | BACT Standard for New and Modified Stationary Sources |
| 9 VAC 5-50-20 E | Compliance for New and Modified Stationary Sources
(Maintenance/Operating Requirements) |
| 9 VAC 5-50-20 F | Compliance for New and Modified Stationary Sources (Disposal of
Volatile Organic Compounds) |
| 9 VAC 5-60-90 | EPA Maximum Achievable Control Technology Standards
(General) |
| 9 VAC 5-60-100 | EPA Maximum Achievable Control Technology Standards
(Designated emission standards) |

The following Code of Federal Regulations has been determined to be applicable:

- | | |
|-----------------------|---|
| 40 CFR 63, Subpart II | National Emission Standards for Shipbuilding and Ship Repair
(Surface Coating) |
|-----------------------|---|

The new source maintenance/operating procedures requirements from 9 VAC 5-50-20 E are included in Condition 111.

The VOC disposal requirements from 9 VAC 5-50-20 F are included in Condition 112.

The applicable limitations from MACT II are included in Conditions 117 through 122.

Monitoring

The applicable monitoring requirements from MACT II are included in Condition 123.

Recordkeeping and Reporting

Condition 124 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. Annual throughput of coatings (in gallons) to spray paint booth PNTS-CEP209, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing VOC content and HAP content for each coating used in spray paint booth PNTS-CEP209.

The applicable recordkeeping and reporting requirements from MACT II are included in Conditions 125 through 127.

VII. EMISSION UNIT APPLICABLE REQUIREMENTS - Surface Coating Operations Requirements - (PNTS-OTHER)

PNTS-W127 has been added to the table at the beginning of this section.

Limitations

The following limitations are derived from the New Source Review permit issued September 24, 2012:

- Condition 128 (NSR Condition 3): Emission Controls
- Condition 129 (NSR Condition 4): Emission Controls
- Condition 130 (NSR Condition 8): Throughput
- Condition 131 (NSR Condition 9): Throughput
- Condition 132 (NSR Condition 10): Process Emission Limits
- Condition 133 (NSR Condition 11): Process Emission Limits
- Condition 134 (NSR Condition 12): Visible Emission Limit
- Condition 135 (NSR Condition 7): VOC Work Practice Standards

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- | | |
|-----------------|--|
| 9 VAC 5-50-260 | BACT Standard for New and Modified Stationary Sources |
| 9 VAC 5-50-20 A | Compliance for New and Modified Stationary Sources
(Compliance with Opacity Standards) |
| 9 VAC 5-50-20 E | Compliance for New and Modified Stationary Sources
(Maintenance/Operating Requirements) |
| 9 VAC 5-50-20 F | Compliance for New and Modified Stationary Sources (Disposal of
Volatile Organic Compounds) |
| 9 VAC 5-50-80 | Standard for Visible Emissions for New and Modified Stationary
Sources |

The 20/30% new source opacity standard has been included in Condition 135 for units PNTS-A81, PNTS-SP356, and PNTS-066. These units are not permitted under a minor NSR permit, but the opacity standard applies. The compliance requirements for opacity from 9 VAC 5-50-20 A.3 are included in Condition 136.

The new source maintenance/operating procedures requirements from 9 VAC 5-50-20 E are included in Condition 137.

Monitoring

The monitoring requirements from the September 24, 2012 NSR permit (NSR Conditions 5 and 6) have been included for paint booth PNTS-W127 in Conditions 139 and 140.

No additional periodic monitoring requirements have been included for PNTS-W127. This booth utilizes High Volume Low Pressure (HVLP) spray guns to minimize overspray and is equipped with fabric filters for the control of particulate emissions. No visible emissions are expected from

this paint booth.

Recordkeeping

Condition 141 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. Annual throughput of coatings (in gallons) to the paint spray booth (Ref. No. PNTS-W127), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. Annual throughput of thinners and solvents (in gallons) used in all cleaning and purging operations, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- c. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS), or other vendor information as approved by DEQ showing the VOC content, HAP content, and solids content for each coating, thinner, and solvent used.

Testing

The testing requirements from the September 24, 2012 NSR permit have been included in Condition 142.

Streamlined Requirements

Condition 15 (Initial Notifications) and Condition 16 (Permit Invalidation) of the September 24, 2012 NSR permit have not been included. These requirements have already been satisfied.

VIII. EMISSION UNIT APPLICABLE REQUIREMENTS - Abrasive Blasting and Fiberglass Operations Requirements - (ABRA-SP356 and ABRA-V146 and MISC-CEP209-100 and MISC-CEP209-101)

Limitations

The following limitations are derived from the New Source Review permit issued November 17, 2011:

- Condition 143 (NSR Condition 3): Emission Controls
- Condition 144 (NSR Condition 4): Throughput
- Condition 145 (NSR Condition 5): Visible Emission Limit
- Condition 146 (NSR Condition 7): Emissions Testing

The following limitations are derived from the New Source Review permit issued August 10, 2011:

- Condition 147 (NSR Condition 4): Emission Controls
- Condition 148 (NSR Condition 9): Throughput
- Condition 149 (NSR Condition 15): Visible Emission Limit

The following limitations are derived from the New Source Review permit issued December 14, 2011:

- Condition 150 (NSR Condition 4): Emission Controls
- Condition 151 (NSR Condition 6): Throughput
- Condition 152 (NSR Condition 15): Visible Emission Limit

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- | | |
|----------------|---|
| 9 VAC 5-50-260 | BACT Standard for New and Modified Stationary Sources |
| 9 VAC 5-50-20 | Compliance for New and Modified Stationary Sources |

Monitoring

The monitoring requirements from the August 10, 2010 NSR permit (NSR Conditions 6 and 7) are included in Conditions 153 and 154.

The applicable monitoring requirements from MACT GG are included in Condition 155 for unit ABRA-V146.

Additional periodic monitoring requirements which meet the requirements of Part 70 are outlined in Conditions 156 and 157. The source is required to perform monthly visual emissions observations on each abrasive blasting exhaust stack (for units ABRA-SP356 and ABRA-V146) and annual visual emissions observations (VEO) on each fiberglass sanding and sawing exhaust stack (for units MISC-CEP209-100 and MISC-CEP209-101). If such visual observation indicates any visible emissions, the source is required to take corrective action to eliminate the

visible emissions. If corrective action fails to eliminate the visible emissions, the source is required to conduct a Method 9 visible emissions evaluation (VEE) to determine compliance with the opacity limits in Conditions 145, 149, and 152. The source is required to maintain records of all VEOs/VEEs. These conditions have been revised from the previous permit for consistency with other visible emissions monitoring conditions in the permit and to include more detailed recordkeeping requirements..

Recordkeeping and Reporting

Condition 158 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. The annual throughput of plastic media blast (PMB) (in tons) to abrasive blasting room ABRA-SP356, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- b. The annual throughput of blast material (in pounds) to blast booth ABRA-V146, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual totals for the preceding 11 months;
- c. Records of monitoring device observations, as required by Condition 154.
- d. Annual combined throughput of fiberglass resin, hardener, and mesh (in pounds) used in the fiberglass sanding and sawing equipment systems (Ref. Nos. MISC-CEP209-100 and MISC-CEP209-101), calculated monthly as the sum of each consecutive 12-month period. Compliance with the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
- e. Records of visual evaluations, visible emissions evaluations, and any corrective action taken, as required by Conditions 156 and 157.

Testing

The testing requirements from the August 10, 2011 NSR permit (NSR condition 17) are included in Condition 159.

**IX. EMISSION UNIT APPLICABLE REQUIREMENTS - Woodworking Operations
Requirements - (WOOD-GRP1 and WOOD-PNT1)**

Limitations

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

9 VAC 5-40-2250 et seq.	Emission Standards for Woodworking Operations (Rule 4-17)
9 VAC 5-50-20 A	Compliance for New and Modified Stationary Sources (Compliance with Opacity Standards)
9 VAC 5-50-80	Standard for Visible Emissions for New and Modified Stationary Sources
9 VAC 5-60-90	EPA Maximum Achievable Control Technology Standards (General)
9 VAC 5-60-100	EPA Maximum Achievable Control Technology Standards (Designated emission standards)

The following Code of Federal Regulations has been determined to be applicable:

40 CFR 63, Subpart JJ	National Emission Standards for Wood Furniture Manufacturing Operations (recordkeeping only)
-----------------------	---

The applicable requirements of Rule 4-17 are included in Conditions 160 and 161.

The 20/30% new source opacity standard is included in Condition 162. The compliance requirements for opacity from 9 VAC 5-50-20 A.3 are included in Condition 163.

The applicable limitations from MACT JJ are included in Conditions 164 and 165. The source meets the definition of "incidental wood furniture manufacturer" under the MACT. As such, the source is required to maintain purchase or usage records demonstrating that it meets this definition. No other requirements of the MACT apply.

Monitoring

Periodic monitoring requirements which meet the requirements of Part 70 are outlined in Conditions 166 and 167. The source is required to perform annual internal inspections on each cyclone and/or baghouse for each woodworking facility to ensure structural integrity. For units with no access to perform an internal inspection, external inspections are deemed acceptable. The permittee is also required to perform annual visual emissions observations (VEO) on each woodworking exhaust. If such visual observation indicates any visible emissions, the source is required to take corrective action to eliminate the visible emissions. If corrective action fails to eliminate the visible emissions, the source is required to conduct a Method 9 visible emissions evaluation (VEE) to determine compliance with the opacity limit in Condition 162. The source is required to maintain records of all VEOs/VEEs. This condition has been revised from the previous permit for consistency with other visible emissions monitoring conditions in the permit and to include more detailed recordkeeping requirements.

Recordkeeping

Condition 168 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. Annual inspection results of the cyclones and/or baghouses;
- b. Records of visual observations, visible emissions evaluations and any corrective action taken;
- c. DEQ-approved, pollutant-specific emission factors and equations used to show compliance with the emission limits contained in Part A of this section of this permit.

The applicable recordkeeping requirements from MACT JJ are included in Condition 169.

X. EMISSION UNIT APPLICABLE REQUIREMENTS - Gasoline Pumps Requirements - (GSTA-GRP1)

GSTA-CEP76 has been added to the table at the beginning of this section. This operation has replaced GSTA-CEP66.

Limitations

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

9 VAC 5-40-5200 et seq.	Emission Standards For Petroleum Liquid Storage and Transfer Operations (Rule 4-37)
9 VAC 5-50-20 E	Compliance for New and Modified Stationary Sources (Maintenance/Operating Requirements)
9 VAC 5-50-20 F	Compliance for New and Modified Stationary Sources (Disposal of Volatile Organic Compounds)

The applicable limitations from Rule 4-37 are included in Condition 170.

The new source maintenance/operating procedures requirements from 9 VAC 5-50-20 E are included in Condition 171.

The VOC disposal requirements from 9 VAC 5-50-20 F are included in Condition 172.

Monitoring and Recordkeeping

Periodic monitoring requirements which meet the requirements of Part 70 are outlined in Condition 173. The source is required to do one of the following at least annually to ensure compliance with the Stage I requirements in Condition 170:

- a. Observe a gasoline delivery to each station in GSTA-GRP1 for the Stage I vapor recovery system usage, or
- b. Obtain documentation from delivery personnel that the Stage I connector was utilized.

The source is required to maintain records of all observations or documentation.

XI. EMISSION UNIT APPLICABLE REQUIREMENTS - Degreasing Operations Requirements - (DEGS-GRP1)

DEGS-A81, DEGS-LP167-1, DEGS-LP167-2, DEGS-MCA604, and DEGS-SP300-700 have been added to the table at the beginning of this section. DEGS-SP300-500a has been removed.

Limitations

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

- | | |
|-------------------------|---|
| 9 VAC 5-40-3260 et seq. | Emission Standards For Solvent Metal Cleaning Operations Using Non-Halogenated Solvents (Rule 4-24) |
| 9 VAC 5-50-20 F | Compliance for New and Modified Stationary Sources (Disposal of Volatile Organic Compounds) |

The applicable limitations from Rule 4-24 are included in Conditions 174 through 176.

The VOC disposal requirements from 9 VAC 5-50-20 F are included in Condition 177.

Monitoring

Periodic monitoring requirements which meet the requirements of Part 70 are outlined in Conditions 178 and 179. The source is required to perform annual inspections on each degreasing unit to ensure that the label with the operating procedures is placed on or near the unit. The source is also required to perform annual inspections on each degreasing unit to ensure that each unit has a cover or enclosed remote reservoir, and waste solvent from each unit is stored in closed containers.

Recordkeeping

Condition 180 includes requirements for maintaining records of all monitoring and testing required by the permit. These records include:

- a. Annual inspection results and any corrective actions taken;
- b. Methods of waste solvent disposal.

XII. EMISSION UNIT APPLICABLE REQUIREMENTS - National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart DD and 40 CFR 63, Subpart PP

Limitations

The following Virginia Administrative Code has specific emission requirements that have been determined to be applicable:

- | | |
|----------------|---|
| 9 VAC 5-60-90 | EPA Maximum Achievable Control Technology Standards (General) |
| 9 VAC 5-60-100 | EPA Maximum Achievable Control Technology Standards (Designated emission standards) |

The following Codes of Federal Regulations have been determined to be applicable:

- | | |
|-----------------------|--|
| 40 CFR 63, Subpart DD | National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations |
|-----------------------|--|

(This subpart is applicable to major HAP sources that receive off-site waste, used oil, or used solvent and meet the requirements outlined in §63.680.)

- | | |
|-----------------------|--|
| 40 CFR 63, Subpart PP | National Emission Standards for Containers |
|-----------------------|--|

(This subpart is applicable to the control of air emissions from containers for which another subpart of 40 CFR Parts 60, 62, or 63 references the use of this subpart for such air emission control. In this case, 40 CFR 63, Subpart DD references Subpart PP at §63.688.)

The applicable limitations from MACT DD are included in Conditions 181 and 182.

The application limitations from MACT PP are included in Conditions 183 through 188.

Monitoring

The applicable monitoring requirements from MACT PP are included in Condition 189.

Recordkeeping and Reporting

The applicable recordkeeping and reporting requirements from MACT DD are included in Condition 190.

XIII. EMISSION UNIT APPLICABLE REQUIREMENTS - Facility Wide

The following Virginia Administrative Codes have specific emission requirements that have been determined to be applicable:

9 VAC 5-40-30 Emission Testing for Existing Stationary Sources

9 VAC 5-50-30 Performance Testing for New and Modified Stationary Sources

Testing

Facility-wide testing requirements are included in Condition 191.

If testing is conducted in addition to the monitoring specified in the permit, the permittee shall use the appropriate methods in accordance with procedures approved by the DEQ (Condition 192).

Streamlined Requirements

The facility-wide startup, shutdown, and malfunction requirements (Condition XIII.A.3 of the June 20, 2012 Title V permit) have been removed. The requirements of this condition are covered in General Condition 227 (Startup, Shutdown, and Malfunction).

XIV. Compliance Plan

A DEQ-EPA joint inspection in June 2011 indicated that the source is out of compliance with 40 CFR 60, Subparts IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines) and JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines), 40 CFR 63, Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), and 40 CFR 82, Subpart F (Protection of Stratospheric Ozone: Recycling and Emissions Reduction). The source has not yet received the inspection report from EPA; however, the source has submitted a Compliance Plan as part of the Title V renewal application. The plan has been included in Conditions 194 through 203 and outlines a schedule for coming into compliance with each federal requirement with which the source is currently out of compliance, as follows:

Title V Permit Condition(s) With Which Source is Out of Compliance	Regulatory Citation(s)	Description of Requirement	Proposed Compliance Schedule	Compliance Plan Title V Permit Condition
General Condition 241 (Stratospheric Ozone Protection)	40 CFR 82.156(i)(5)	Leak rate calculations for equipment normally containing 50 pounds or more refrigerant charge	Within 6 months of permit issuance	Condition 195
Conditions 68	40 CFR 63.6625(d) and (f), 40 CFR 63.6655(f)	Record through the non-resettable hour meter the time of operation of the engine and the reason the engine was in operation during that time	Within 12 months of permit issuance	Condition 196
Conditions 65, 66, and 68	40 CFR 63.6640(f)(1-3)	Records of operating hours to show the engines meet the definition of "emergency engine".	Within 12 months of permit issuance	Condition 197
Condition 62	40 CFR 60.4209(a), 40 CFR 60.4214(b)	Record through the non-resettable hour meter the time of operation of the engine and the reason the engine was in operation during that time	Within 12 months of permit issuance	Condition 198
Condition 62	CFR 60.4207(b), 40 CFR 80.510(b)	Records to document that the fuel meets the requirements of 40 CFR 80.510(b):	Within 18 months of permit issuance	Condition 199

		<ul style="list-style-type: none"> • Maximum sulfur content of 15 ppm • Minimum cetane index of 40 or maximum aromatic content of 35% by volume 		
Condition 63	40 CFR 60.4237(a-c), 40 CFR 60.4245(b)	Record through the non-resettable hour meter the time of operation of the engine and the reason the engine was in operation during that time	Within 12 months of permit issuance	Condition 200

Although Conditions 196, 198, and 200 outline similar requirements, each regulation (MACT ZZZZ, NSPS IIII, and NSPS JJJJ) contains slightly different language and compliance requirements. The requirements have been broken up into separate conditions to allow for the use of the specific language from each regulation.

The source is required to submit certified progress reports as part of their semi-annual monitoring report (as required in Condition 214). The progress reports shall detail the progress made toward completion of the milestones outlined in the Compliance Schedule.

GENERAL CONDITIONS

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110 that apply to all Federal-operating permitted sources. These include requirements for submitting semi-annual monitoring reports and an annual compliance certification report. The permit also requires notification of deviations from permit requirements or any excess emissions.

Comments on General Conditions

206-211. Permit Expiration

This condition refers to the Board taking action on a permit application. The Board is the State Air Pollution Control Board. The authority to take action on permit application(s) has been delegated to the Regions as allowed by §2.2-604 and §10.1-1185 of the *Code of Virginia*, and the "Department of Environmental Quality Agency Policy Statement No. 2-09".

This general condition cite(s) the Article(s) that follow(s):

Article 1 (9 VAC 5-80-50 et seq.), Part II of 9 VAC 5 Chapter 80. Federal Operating Permits for Stationary Sources

This general condition cites the sections that follow:

9 VAC 5-80-80. Application
9 VAC 5-80-140. Permit Shield
9 VAC 5-80-150. Action on Permit Applications

217. Failure/Malfunction Reporting

Section 9 VAC 5-20-180 requires malfunction and excess emission reporting within four hours of discovery. Section 9 VAC 5-80-250 of the Title V regulations also requires malfunction reporting; however, reporting is required within two days. Section 9 VAC 5-20-180 is from the general regulations. All affected facilities are subject to section 9 VAC 5-20-180 including Title V facilities. Section 9 VAC 5-80-250 is from the Title V regulations. Title V facilities are subject to both sections. A facility may make a single report that meets the requirements of 9 VAC 5-20-180 and 9 VAC 5-80-250. The report must be made within four daytime business hours of discovery of the malfunction.

This general condition cites the sections that follow:

9 VAC 5-40-41	Emissions Monitoring Procedures for Existing Sources
9 VAC 5-40-50	Notification, Records and Reporting
9 VAC 5-50-50	Notification, Records and Reporting

The Title V boilerplate includes additional optional conditions for Failure/Malfunction Reporting for units that have continuous monitors subject to 9 VAC 5-50-410 (NSPS) which outline excess emissions reporting requirements. These optional requirements have not been included in the General Conditions section because they are already included in Condition 34.

221. Permit Modification

This general condition cites the sections that follow:

9 VAC 5-80-50	Applicability, Federal Operating Permit For Stationary Sources
9 VAC 5-80-190	Changes to Permits
9 VAC 5-80-260	Enforcement
9 VAC 5-80-1100	Applicability, Permits For New and Modified Stationary Sources
9 VAC 5-80-1605	Applicability, Permits For Major Stationary Sources and Modifications Located in Prevention of Significant Deterioration Areas
9 VAC 5-80-2000	Applicability, Permits for Major Stationary Sources and Major Modifications Locating in Nonattainment Areas

235-238. Malfunction as an Affirmative Defense

The regulations contain two reporting requirements for malfunctions that coincide. The reporting requirements are listed in sections 9 VAC 5-80-250 and 9 VAC 5-20-180. The malfunction requirements are listed in General Conditions 235-238 and General Condition 217. For further explanation see the comments on General Condition 217.

These general conditions cite the sections that follow:

9 VAC 5-20-180	Facility and Control Equipment Maintenance or Malfunction
9 VAC 5-80-110	Permit Content

242. Asbestos Requirements

The Virginia Department of Labor and Industry under Section 40.1-51.20 of the Code of Virginia also holds authority to enforce 40 CFR 61 Subpart M, National Emission Standards for Asbestos.

This general condition contains the citations from the Code of Federal Regulations that follow:

40 CFR 61.145, NESHAP Subpart M	National Emissions Standards for Asbestos as it applies to demolition and renovation
40 CFR 61.148, NESHAP Subpart M	National Emissions Standards for Asbestos as it applies to insulating materials
40 CFR 61.150, NESHAP Subpart M	National Emissions Standards for Asbestos as it applies to waste disposal

This general condition cites the regulatory sections that follow:

9 VAC 5-60-70	Designated Emissions Standards
9 VAC 5-80-110	Permit Content

STATE ONLY APPLICABLE REQUIREMENTS

The following Virginia Administrative Codes have specific requirements only enforceable by the State:

- 9 VAC 5-40-140 Existing Source Standard for Odor
- 9 VAC 5-50-220 Existing Source Standard for Toxic Pollutants
- 9 VAC 5-50-140 New and Modified Source Standard for Odor
- 9 VAC 5-50-320 New and Modified Source Standard for Toxic Pollutants

INAPPLICABLE REQUIREMENTS

Citation	Title of Citation	Description of Applicability
None Identified		

After July 1, 2011, sources that emit or have the potential to emit 100,000 tpy CO₂e and 100 tpy of greenhouse gases on a mass basis are required to have a Title V permit even if they are not Title V major for any criteria pollutant or HAP. Additionally, any source that increases their CO₂e emissions more than 75,000 tpy as a result of a modification is required to address their CO₂e emissions as part of the Title V permit.

There are no applicable GHG permitting requirements for this source. The source is subject to the Mandatory Greenhouse Gas Reporting Rule (40 CFR 98); however, the requirements of this rule are not considered applicable requirements under Title V, thus, they have not been included in this permit.

INSIGNIFICANT EMISSION UNITS

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
Grouped Units				
ABRA-GRP1	Vented abrasive blast gloveboxes	9 VAC 5-80-720 B	Compounds of Antimony, Cadmium, Chromium, Cobalt, Cyanide, Lead, Manganese, & Nickel; PM/PM10, Phosphorus	
CLNO-GRP-O	Paint Gun Washers – Other	9 VAC 5-80-720 B	PM, PM10, VOC	
FURN-GRP1	Natural gas-fired furnaces	9 VAC 5-80-720 C		< 10 MMBtu/hr
FURN-GRP2	Propane-fired furnaces	9 VAC 5-80-720 C		<1 MMBtu/hr
FURN-GRP3	#2 oil-fired furnaces	9 VAC 5-80-720 C		< 1MMBtu/hr
GSTA-GRP3	Gasoline dispensing (no VR)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	
GSTA-GRP4	Kerosene and Jet Kerosene (JP-5) dispensing	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	
PETO-GRP1	Petroleum fueling, defueling, and/or distribution: JP-5	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	
PETO-GRP2	Petroleum fueling, defueling, and/or distribution: F-76 (diesel)	9 VAC 5-80-720 B	Naphthalene, VOCs	
PETO-GRP3	Petroleum fueling, defueling, and/or distribution: lube oil	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKA-GRP1	Diesel/fuel oil #2	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKA-GRP2	Gasoline storage (no stage I vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	
TNKA-GRP3	Kerosene and jet kerosene (JP-5)	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	
TNKA-GRP4	Lube oil	9 VAC 5-80-720 B		

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
TNKA-GRP5	Used oil	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKA-GRP6	Various fuel oils for steam plants	9 VAC 5-80-720 B		
TNKU-GRP1	Diesel/fuel oil #2	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKU-GRP2	Gasoline storage (stage I vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	
TNKU-GRP2b	Gasoline storage (no vapor recovery)	9 VAC 5-80-720 B	2,2,4- trimethylpentane; 2-Methoxy-2-methyl propane; Benzene, Cumene, Ethylbenzene, Hexane, Toluene, VOC, Xylenes	
TNKU-GRP3	Kerosene and jet kerosene (JP-5)	9 VAC 5-80-720 B	Ethylbenzene, Naphthalene, Toluene, VOC, Xylenes	
TNKU-GRP4	Lube oil	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKU-GRP5	Used oil	9 VAC 5-80-720 B	VOCs, VOHAPS	
TNKU-GRP6	Various fuel oils for steam plants	9 VAC 5-80-720 B		
WSTL-GRP1	Oil/Water Separation Units	9 VAC 5-80-720 B	Benzene, Hexane, Naphthalene, VOC	
WSTS-GRP1	Paper Shredders w/ Cyclone	9 VAC 5-80-720 B	PM/PM-10	
WSTS-GRP2	Paper Shredders w/ Cyclone/Baghouse	9 VAC 5-80-720 B	PM/PM-10	
Individual Units				
CHMC-CEP200-002	Acid Dip Tank	9 VAC 5-80-720 B	PM, PM10	
CHMC-CEP200-003	Neutralization Tank	9 VAC 5-80-720 B	PM, PM10	
CHMC-SP234	Parachute Hand Wipe Cleaning	9 VAC 5-80-720 B	Methyl ethyl ketone, VOC	
CHMC-W7	Chemical cleaning with sodium hydroxide	9 VAC 5-80-720 B	VOCs, VOHAPS	
ENGT-V88	Small Boat Outboard Motor Testing	9 VAC 5-80-720 B	Acetaldehyde, Benzene, CO, Chlorine, Ethylbenzene, Formaldehyde, Hexane, NOx, PM/PM10, Sox, Toluene, VOC, Xylenes	
FIRI-CEP161-005	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	
FIRI-CEP161-006	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	
FIRI-MCA604-004	Indoor Firing Range	9 VAC 5-80-720 B	Lead, PM, PM10	
MISC-CD3	Dental Clinic	9 VAC 5-80-720 B	PM, PM10	
MISC-CEP200-1	Flex Hose Cutting	9 VAC 5-80-720 B	PM, PM10	
MISC-CEP200-2	Metal Spray Booth	9 VAC 5-80-720 B	PM, PM10	

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
MISC-CEP200-3	Cable moulding aka portsmouth plug making	9 VAC 5-80-720 B	VOCs, VOHAPS	
MISC-CEP200-4	Ultrasonic Dryer	9 VAC 5-80-720 B	VOC	
MISC-CEP200-5	Fiberglass Pipe Insulation Cutting	9 VAC 5-80-720 B	PM, PM10	
MISC-CEP200-7	Lagging/Fiberglass Cutting	9 VAC 5-80-720 B	PM, PM10	
MISC-CEP209-4	Plastisol Coating Dip Tank System	9 VAC 5-80-720 B	Cadmium compounds, PM, PM10, Vinyl chloride, VOC	
MISC-V58	Lapmaster Metal Sander	9 VAC 5-80-720 B	PM, PM10	
PNT0-A81	Sign Shop	9 VAC 5-80-720 B	VOCs, VOHAPS	
PNT0-LP20-EQP	Forklift repair, aerosol only	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	
PNT0-LP20-VEH	Vehicle Priming, aerosol only	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	
PNTS-V88-1 PNTS-V88-2	Paint hoods, aerosol only, boat engine parts	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	
PNTS-W7	Paint hood, aerosol only, boat engine parts	9 VAC 5-80-720 B	PM, PM10, VOCs, VOHAPS	
PRNT-NH31	Printing Shop	9 VAC 5-80-720 B	PM, PM10, VOC, Xylenes	
STRP-CEP209	Plastisol stripping tank	9 VAC 5-80-720 B	VOC	
STRP-SP356	Paint stripping tank	9 VAC 5-80-720 B	VOC	

¹The citation criteria for insignificant activities are as follows:
 9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application
 9 VAC 5-80-720 B - Insignificant due to emission levels
 9 VAC 5-80-720 C - Insignificant due to size or production rate

Changes to the Insignificant Emission Unit list:

The “Grouped Units” and “Individual Units” have been combined in one table for clarity.

BOIL-GRP-#2, BOIL-GRP-NG, and BOIL-GRP-LP have been moved to the Significant Emission Unit list in Section II. These units are now subject to the Major Source Boiler MACT (40 CFR 63, Subpart DDDDD).

The furnaces have been re-classified as FURN-GRP1 (natural gas-fired furnaces), FURN-GRP2 (propane-fired furnaces), and FURN-GRP3 (#2 oil-fired furnaces). These are direct-fired units, not boilers or process heaters, and are not subject to the requirements of 40 CFR 63, Subpart DDDDD.

CHMC-CEP200-ACID and CHMC-CEP200-NUTR have been re-named CHMC-CEP200-002 and CHMC-CEP200-003.

CHMC-W7 has been moved to the Insignificant Emission Unit list. This process is a chemical cleaning operation with sodium hydroxide (lye). It is not a cold or vapor degreasing operation subject to the requirements of Rule 4-24.

FIRI-CEP161-1 and FIRI-CEP161-2 have been re-named FIRI-CEP161-005 and FIRI-CEP161-006.

FIRI-MCA604 has been re-named FIRI-MCA604-004.

MISC-CEP200-001, MISC-CEP200-004, PNT0-CEP200-67x, MISC-CEP200-011, MISC-CEP200-016, and MISC-CEP200-007 have been re-named MISC-CEP200-1, MISC-CEP200-2, MISC-CEP200-3, MISC-CEP200-4, MISC-CEP200-5, and MISC-CEP200-7.

MISC-CEP200-015 (Brick Oven Cutting Saw) has been removed.

PNT0-CEP209 has been re-named MISC-CEP209-4.

PNT0-A81 has been moved to the Insignificant Emission Unit list. It is a sign shop with minor painting operations. The source has identified it as meeting the requirements of 9 VAC 5-80-720 B.

STRP-SP356 (Paint Stripping Tank) has been added.

CONFIDENTIAL INFORMATION

The permittee did not submit a request for confidentiality. All portions of the Title V application are suitable for public review.

PUBLIC PARTICIPATION

The proposed permit will be placed on public notice in the Virginian-Pilot newspaper from Wednesday, November 5, 2014 to Friday, December 5, 2014.