



North Carolina Department of Environment and Natural Resources
Division of Air Quality

Beverly Eaves Purdue
Governor

Shelia C. Holman.
Director

Dee Freeman
Secretary

XX XX, 2011

Mr. John R. Townson
Director, Environmental Management Division
United State Marine Corps Base
EMD/EQB
Camp Lejeune, North Carolina 28542

Dear Mr. Townson:

SUBJECT: Air Quality Permit No. 06591T24
Facility ID: 6700011
United States Marine Corps Base
Camp Lejeune, North Carolina
Onslow County
Fee Class: Title V

In accordance with your completed Air Quality Permit Application for the modification of a Title V permit received September 11, 2009 we are forwarding herewith Air Quality Permit No. 06591T24 to the United States Marine Corps Base, located at Camp Lejeune, North Carolina, authorizing the construction and operation, of the emission sources and associated air pollution control devices specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

These emission sources (ID Nos. A-HP-128-01, A-HP-227-01, C-AS-4013-01) are listed as a minor modification per 15A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on December 4, 2010. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any

Permitting Section

1641 Mail Service Center, Raleigh, North Carolina 27699-1641
2728 Capital Blvd., Raleigh, North Carolina 27604
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One
North Carolina
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emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641.

The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of Administrative Hearings. Please note that this permit will be stayed in its entirety upon receipt of the request for a hearing. Unless a request for a hearing is made pursuant to NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of GS 143-215-108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of GS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in GS 143-215.114A and 143-215.114B.

This Air Quality Permit shall be effective from **XX XX, 2011** until **February 28, 2014**, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein.

Should you have any questions concerning this matter, please contact Mr. Jeff Twisdale at (919) 715-6260.

Sincerely yours,

Donald R. van der Vaart, Ph.D., P.E., J.D.
Chief

Enclosure

c: Gregg Worley, EPA Region 4
Wilmington Regional Office
Central Files

ATTACHMENT to cover letter to Air Quality Permit No. 06591T24

Table of Changes

Old Page No. [Air Permit No. 06591T23]	New Page No. [Air Permit No. 06591T24]	Condition No.	Changes
NA	NA	Cover letter	Changed dates, permit and app number, etc.
NA	NA	Table of Changes	updated the Table of Changes
NA	NA	Permit Cover	Changed dates, permit and app number, etc.
Pages 3-4	Page 3-4	SECTION 1 Source Table	Added 2D .1109 Case-by-Case MACT identifier to affected boilers
Page 12	Page 12	Section 2.1 A.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
NA	Pages 16-20	Section 2.1 A.6.	Added new condition for 2D .1109 requiring testing, monitoring, recordkeeping & reporting for 112(j) for the boilers
Page 14	Page 21	Section 2.1 B.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 16	Page 23	Section 2.1 C.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 18	Page 25	Section 2.1 D.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 19	Page 27	Section 2.1 E.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 22	Page 29	Section 2.1 F.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 23	Page 30	Section 2.1 G.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 24	Page 31	Section 2.1 H.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 25	Page 32	Section 2.1 I.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
Page 27	Page 35	Section 2.1 K.	Revised Table for 112(j) for the affected boilers by adding 2D .1109
NA	Page 86-87	Section 2.2 D.	Added new condition for 2D .1109 requiring best combustion practices for 112(j) for the permitted boilers
NA	Page 87-89	Section 2.2 E.	Added new condition for 2D .1109 requiring best combustion practices for 112(j) for the boilers less than 10.0 million Btu per hour
Pages 80-88	Page 91-99	Section 3 General Conditions	Verified Latest General Conditions (v 3.2.2)

ATTACHMENT to Cover Letter to Air Quality Permit No. 06591T24

Insignificant Activities Per 15A NCAC 2Q .0503(8)

Emission Source Description (ID No.)
Ash handling - Main Steam Plant (I-A-HP-1700-06)
Ash handling - Main Steam Plant (I-A-HP-1700-07)
Coal handling - Main Steam Plant (I-A-HP-1700-09)
Coal pile - Main Steam Plant (I-A-HP-1700-10)
Corrosion control-blade repair curing table (I-C-AS-3900-04)
Internal combustion engine test station (I-A-HP-728-05)
Internal combustion engine testing (I-A-FC-285-01)
Internal combustion engine testing (I-A-MP-107-08)
Internal combustion engine testing (I-A-MP-107-09)
Internal combustion engine testing (I-A-MP-107-10)
One diesel engine test stand (I-A-HP-575-10)
Internal combustion engine test station (I-C-AS-2820-01)
Internal combustion engine (373 kW capacity, I-A-LOT201-01)
Internal combustion engine (500 kW, I-B-BB-7-01)
Internal combustion engine (500 kW, I-A-FC-303-01)
Internal combustion engine (I-A-BM-46-2)
Internal combustion engine (I-A-BM-607-01)
Internal combustion engine (50 kW, I-A-BM-5400-02)
Internal combustion engine (I-A-BM-835-03)
Internal combustion engine (I-A-BM-835-02)
Internal combustion engine (I-A-BM-842-01)
Internal combustion engine (I-A-FC-116-01)
Internal combustion engine (I-A-FC-199-02)
Internal combustion engine (I-A-FC-259-02)
Internal combustion engine (I-A-FC-260-02)
Internal combustion engine (I-A-FC-294-01)
Internal combustion engine (I-A-FC-300-01)
Internal combustion engine (I-A-FC-315-02)
Internal combustion engine (I-A-FC-364-02)
Internal combustion engine (I-A-FC-39-02)
Internal combustion engine (I-A-FC-420-01)
Internal combustion engine (I-A-FC-599-02)
Internal combustion engine (I-A-HP-902-07)
Internal combustion engine (I-A-HP-972-01)
Internal combustion engine (I-A-HP-982-01)
Internal combustion engine (I-A-HP-1005-01)
Internal combustion engine (I-B-SBB-180-01)
Internal combustion engine (I-FC-294-01)
Internal combustion engine (I-B-BA-SBA-197-1)
Internal combustion engine (500 kW, I-A-HP-1005-02)
Internal combustion engine (I-A-FC-1041-02)
Internal combustion engine (I-A-FC-1070-1)
Internal combustion engine (I-A-FC-1101-3)
Internal combustion engine (I-A-FC-1101-4)
Internal combustion engine (I-A-HP-1201-01)
Internal combustion engine (I-A-HP-1202-05)
Internal combustion engine (I-A-HP-1202-07)
Internal combustion engine (I-A-HP-1202-11)
Internal combustion engine (I-A-HP-1211-01)
Internal combustion engine (I-A-HP-122-01)

Emission Source Description (ID No.)

Internal combustion engine (I-A-HP-1230-01)
Internal combustion engine (I-A-HP-1302-01)
Internal combustion engine (I-A-HP-1302-02)
Internal combustion engine (I-A-HP-1404-01)
Internal combustion engine (I-A-HP-S1455-01)
Internal combustion engine (I-A-HP-15-02)
Internal combustion engine (I-A-HP-1650-01)
Internal combustion engine (I-A-HP-1688-01)
Internal combustion engine (I-A-HP-S1761-01)
Internal combustion engine (I-A-HP-1776-01)
Internal combustion engine (I-A-HP-1776-02)
Internal combustion engine (I-A-HP-18-01)
Internal combustion engine (I-A-HP-1855-01)
Internal combustion engine (I-A-HP-20-02)
Internal combustion engine (I-A-HP-20-04)
Internal combustion engine (I-A-HP-211-01)
Internal combustion engine (I-A-HP-24-02)
Internal combustion engine (I-A-HP-24-03)
Internal combustion engine (I-A-HP-3-03)
Internal combustion engine (I-A-HP-353-01)
Internal combustion engine (I-A-HP-5-01)
Internal combustion engine (I-A-HP-521-02)
Internal combustion engine (I-A-FC-575-10)
Internal combustion engine (I-A-HP-58-01)
Internal combustion engine (I-A-HP-34-01)
Internal combustion engine (I-A-HP-S46-01)
Internal combustion engine (I-A-HP-312-01)
Internal combustion engine (I-A-HP-585-01)
Internal combustion engine (I-A-HP-595-01)
Internal combustion engine (I-A-HP-596-01)
Internal combustion engine (I-A-HP-611-01)
Internal combustion engine (I-A-HP-612-01)
Internal combustion engine (I-A-HP-614-01)
Internal combustion engine (I-A-HP-617-01)
Internal combustion engine (I-A-HP-622-01)
Internal combustion engine (I-A-HP-628-01)
Internal combustion engine (I-A-HP-629-01)
Internal combustion engine (I-A-HP-661-01)
Internal combustion engine (I-A-HP-662-01)
Internal combustion engine (I-A-HP-705-01)
Internal combustion engine (I-A-HP-708-01)
Internal combustion engine (I-A-HP-1023-01)
Internal combustion engine (I-A-HP-H1-03)
Internal combustion engine (I-C-AS-144-01)
Internal combustion engine (I-CAS-SAS3460-01)
Internal combustion engine (I-A-HP-618-01)
Internal combustion engine (I-A-HP-619-01)
Internal combustion engine (I-A-HP-621-01)

Emission Source Description (ID No.)

Internal combustion engine (I-A-HP-627-02)
Internal combustion engine (I-A-HP-632-01)
Internal combustion engine (I-A-HP-640-01)
Internal combustion engine (I-A-HP-641-01)
Internal combustion engine (I-A-HP-643-02)
Internal combustion engine (I-A-HP-644-01)
Internal combustion engine (I-A-HP-646-02)
Internal combustion engine (I-A-HP-647-02)
Internal combustion engine (I-A-HP-648-02)
Internal combustion engine (I-A-HP-650-01)
Internal combustion engine (I-A-HP-652-01)
Internal combustion engine (I-A-HP-654-01)
Internal combustion engine (I-A-HP-65-01)
Internal combustion engine (I-A-HP-671-02)
Internal combustion engine (I-A-HP-672-01)
Internal combustion engine (I-A-HP-673-02)
Internal combustion engine (I-A-HP-S702-01)
Internal combustion engine (I-A-HP-704-01)
Internal combustion engine (I-A-HP-709-01)
Internal combustion engine (I-A-HP-711-01)
Internal combustion engine (I-A-HP-738-02)
Internal combustion engine (I-A-HP-S768-01)
Internal combustion engine (I-A-HP-85-01)
Internal combustion engine (I-A-HP-855-01)
Internal combustion engine (I-A-HP-H1-01)
Internal combustion engine (I-A-HP-H1-02)
Internal combustion engine (I-A-HP-H1-05)
Internal combustion engine (I-A-HP-H1-06)
Internal combustion engine (I-A-HP-HP1-02)
Internal combustion engine (I-A-HP-H29-02)
Internal combustion engine (I-A-HP-1-02)
Internal combustion engine (I-A-HP-PT41-01)
Internal combustion engine (I-A-HP-S557-01)
Internal combustion engine (I-A-HP-S558-01)
Internal combustion engine (I-A-LCH-4005-01)
Internal combustion engine (I-A-LCH-4005-02)
Internal combustion engine (I-A-LCH-4009-02)
Internal combustion engine (I-A-LCH-4009-03)
Internal combustion engine (I-A-LOT201-02)
Internal combustion engine (I-A-LOT201-03)
Internal combustion engine (I-A-LOT201-04)
Internal combustion engine (I-A-LOT201-05)
Internal combustion engine (I-A-LOT201-06)
Internal combustion engine (I-A-LOT201-07)
Internal combustion engine (I-A-LOT201-08)
Internal combustion engine (I-A-LOT201-09)
Internal combustion engine (I-A-LOT201-10)
Internal combustion engine (I-A-LOT201-11)
Internal combustion engine (I-A-LOT201-12)
Internal combustion engine (I-A-MP-131-01)

Emission Source Description (ID No.)

Internal combustion engine (I-A-MP-167-01)
Internal combustion engine (I-A-MP-241-01)
Internal combustion engine (I-A-MP-350-03)
Internal combustion engine (I-A-MP-451-02)
Internal combustion engine (I-A-MP-625-03)
Internal combustion engine (25 kW, I-A-MP-M128-01)
Internal combustion engine (I-A-NH-120-02)
Internal combustion engine (I-A-PP-1919-03)
Internal combustion engine (I-A-PP-S1948-02)
Internal combustion engine (I-A-PP-2100-02)
Internal combustion engine (I-A-PP-S2633-01)
Internal combustion engine (I-A-PP-S47A-02)
Internal combustion engine (I-A-TT-S47-01)
Internal combustion engine (I-A-TT-33-02)
Internal combustion engine (I-A-TT-39-01)
Internal combustion engine (I-A-TT-S48-01)
Internal combustion engine (I-A-TT-42-01)
Internal combustion engine (I-A-TT-43-01)
Internal combustion engine (I-A-TT-99-01)
Internal combustion engine (I-B-BA-138-01)
Internal combustion engine (I-B-BA-145-01)
Internal combustion engine (I-B-BA-164-01)
Internal combustion engine (I-B-BA-167-01)
Internal combustion engine (I-B-BA-SBA-126-1)
Internal combustion engine (I-B-BA-SBA-129-1)
Internal combustion engine (I-B-BA-SBA-168-2)
Internal combustion engine (I-B-BB-118-01)
Internal combustion engine (I-B-BB-190-01)
Internal combustion engine (I-B-BB-218-01)
Internal combustion engine (I-B-BB-221-02)
Internal combustion engine (I-B-BB-280-01)
Internal combustion engine (I-B-BB-281-01)
Internal combustion engine (I-B-BB-69-01)
Internal combustion engine (I-B-BA-SBA-168-1)
Internal combustion engine (I-C-AS-100-01)
Internal combustion engine (I-C-AS-1006-02)
Internal combustion engine (I-C-AS-110-02)
Internal combustion engine (I-C-AS-110-05)
Internal combustion engine (I-C-AS-122-02)
Internal combustion engine (25 kW, I-C-AS-143-02)
Internal combustion engine (I-C-AS-170-01)
Internal combustion engine (I-C-AS-190-02)
Internal combustion engine (I-C-AS-191-02)
Internal combustion engine (I-C-AS-2008-02)
Internal combustion engine (I-C-AS-212-01)
Internal combustion engine (I-C-AS-224-01)
Internal combustion engine (I-C-AS-238-02)
Internal combustion engine (I-C-AS-239-02)
Internal combustion engine (I-C-AS-3503-04)

Emission Source Description (ID No.)

Internal combustion engine (I-C-AS-426-01)
 Internal combustion engine (I-C-AS-428-03)
 Internal combustion engine (I-C-AS-429-02)
 Internal combustion engine (I-C-AS-3000-02)
 Internal combustion engine (I-C-AS-SAS3526-1)
 Internal combustion engine (I-C-AS-302-01)
 Internal combustion engine (I-C-AS-3601-01)
 100 kW (134 hp) diesel-fired emergency generator (I-C-AS-3625-03A)(NSPS Subpart IIII, MACT Subpart ZZZZ)
 Internal combustion engine (I-C-AS-3905-04)
 Internal combustion engine (I-C-AS-4012-01)
 Internal combustion engine (I-C-AS-4041-01)
 Internal combustion engine (I-C-AS-4100-01)
 Internal combustion engine (I-C-AS-4100-02)
 Internal combustion engine (I-C-AS-4100-03)
 Internal combustion engine (I-C-AS-4114-01)
 Internal combustion engine (I-C-AS-4055-01)
 Internal combustion engine (I-C-AS-4143-02)
 Internal combustion engine (I-C-AS-4145-01)
 Internal combustion engine (I-C-AS-4145-05)
 Internal combustion engine (I-C-AS-4147-01)
 Internal combustion engine (I-C-AS-4151-05)
 Internal combustion engine (I-C-AS-4202-01)
 Internal combustion engine (I-C-AS-502-01)
 Internal combustion engine (I-C-AS-504-02)
 Internal combustion engine (I-C-AS-518-09)
 Internal combustion engine (I-C-AS-607-02)
 Internal combustion engine (I-C-AS-629-01)
 Internal combustion engine (I-C-AS-SAS629-1)
 Internal combustion engine (I-C-AS-SAS629-2)
 Internal combustion engine (I-C-AS-711-01)
 Internal combustion engine (I-C-AS-804-02)
 Internal combustion engine (125 kW, 168 hp, I-C-AS-211-02)
 Internal combustion engine (I-C-AS-841-01)
 Internal combustion engine (I-C-AS-867-02)
 Internal combustion engine (I-C-AS-903-02)
 Internal combustion engine (I-C-AS-SAS889-01)
 Internal combustion engine (I-C-AS-1001-01)
 Internal combustion engine (I-C-TC-575-01)
 Internal combustion engine (30.4 kW, I-C-TC-600-01)
 Internal combustion engine (120 kW, I-C-TC-501-03)
 Internal combustion engine (I-C-CG-640-01)
 Internal combustion engine (I-C-CG-650-03)
 Internal combustion engine (I-C-CG-770-01)
 Internal combustion engine (I-C-RR-11-04)
 Internal combustion engine (I-C-RR-150-01)
 Internal combustion engine (I-C-RR-15-06)
 Internal combustion engine (I-C-RR-60-01)
 Internal combustion engine (I-C-SR-41-01)
 Internal combustion engine (I-C-SR-60-01)
 Internal combustion engine (I-C-VL-101-01)

Emission Source Description (ID No.)

Internal combustion engine (I-C-VL-102-02)
 Internal combustion engine (I-C-VL-103-04)
 Internal combustion engine (I-C-VL-104-02)
 Internal combustion engine (I-C-VL-105-01)
 Internal combustion engine (80 kW, I-C-VL-160-01)
 Internal combustion engine (I-C-VL-STFM102-02)
 Lime storage (I-A-HP-20-03)
 Lime storage (I-A-HP-670-01)
 Lime storage (I-A-HP-670-02)
 Paint booth (I-A-HP-40-01)
 Paint booth (I-C-AS-504-04)
 Open faced dry filter paint spray booth (I-D-SR-46-01)
 One paint spray booth (I-A-HP-1016-01)
 Paint booth (I-BM-835-01)
 One woodworking operation (I-A-HP-1016-02)
 Screen printing (I-A-HP-257-01)
 Paint booth (I-C-AS-255-01)
 Paint booth (I-A-HP-S1124-01)
 Epoxy Curing Bench (I-C-AS-504-05)
 Parts cleaner (enclosed paint gun cleaner, I-A-HP-1202-01)
 Parts cleaner (enclosed paint gun cleaner, I-A-HP-1249-02)
 Parts cleaner (enclosed paint gun washer, I-A-HP-1311-01)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-3900-05)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-3905-05)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-4106-02)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-4106-07)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-4135-03)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-4146-04)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-518-02)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-518-05)
 Parts cleaner (enclosed paint gun cleaner, I-C-AS-840-03)
 Parts cleaners (I-DEGR-ZONE-A, non-aqueous)
 Parts cleaners (I-DEGR-ZONE-B, non-aqueous)
 Parts cleaners (I-DEGR-ZONE-C, non-aqueous)
 Parts oven (I-A-FC-280-21)
 Parts oven (I-A-FC-280-22)
 Parts oven (I-A-HP-1250-03)
 Parts oven (I-A-HP-150-03)
 Welding/soldering/cutting (I-C-AS-114-03)
 Welding, actyl, mig (I-B-BB-51-04)
 Welding, arc (I-A-FC-100-07)
 Welding, arc (I-A-FC-286-15)
 Welding/soldering/cutting (I-A-HP-738-03)
 Welding, arc (I-A-HP-1410-03)
 Welding, arc (I-A-HP-1880-05)
 Welding, arc, gas (I-B-A-A47-06)
 Welding, arc, mig (I-C-AS-122-01)
 Welding, arc, mig (I-A-HP-1202-06)
 Welding, arc, mig, tig (I-A-HP-575-11)

Emission Source Description (ID No.)

Welding, arc, mig, tig (I-C-AS-4106-06)
 Welding, arc, mig, tig (I-C-AS-4135-02)
 Welding, arc, mig, tig (I-C-RR-11-02)
 Welding, arc, tig (I-A-HP-1765-02)
 Welding, arc, tig (I-C-AS-518-01)
 Welding, arc, mig (I-A-HP-1854-10)
 Welding, mig, stig (I-C-AS-4158-01)
 Welding, tig (I-A-FC-286-14)
 Welding (I-C-AS-114-02)
 Welding (I-A-HP-1202-10)
 Welding (I-A-HP-1502-10)
 Welding (I-A-HP-1700-14)
 Welding LAV Service Lift Extension Project (SLEP, I-A-FC-286-23)
 Woodworking operation (I-A-HP-H19-01)
 Woodworking operation (I-C-AS-124-01)
 Retail, storage tank (I-HP-1232-01U)
 Retail, storage tank (I-HP-1232-02U)
 Retail, storage tank (I-HP-1232-03U)
 Retail, storage tank (I-HP-1232-04U)
 Retail, storage tank (I-HP-1232-05U)
 No. 2 fuel oil storage tank (I-HP-1323-01U)
 No. 2 fuel oil storage tank (I-HP-1323-02U)
 No. 2 fuel oil storage tank (I-HP-1450-05U)
 No. 2 fuel oil storage tank (I-HP-1450-06U)
 No. 2 fuel oil storage tank (I-HP-1450-07U)
 No. 2 fuel oil storage tank (I-HP-1450-08U)
 No. 2 fuel oil storage tank (I-HP-1775-07U)
 No. 2 fuel oil storage tank (I-HP-1775-08U)
 No. 2 fuel oil storage tank (I-HP-1829-01U)
 No. 2 fuel oil storage tank (I-HP-1829-02U)
 Storage tank (diesel fuel, underground, I-HP-1854-02U)
 Storage tank (diesel fuel, underground, I-HP-1854-03U)
 No. 2 fuel oil storage tank (I-HP-1854-05U)
 No. 2 fuel oil storage tank (I-HP-1854-06U)
 No. 2 fuel oil storage tank (I-HP-1880-01U)
 No. 2 fuel oil storage tank (I-HP-1880-02U)
 Retail, storage tank (I-HP-30-01U)
 Diesel fuel storage tank (I-HP-575-02U)
 No. 2 fuel oil storage tank (I-HP-575-03U)
 One No. 2 fuel oil storage tank (I-A-1-01A)
 No. 2 fuel oil storage tank (I-A-47-01A)
 Retail, storage tank (I-PP-820-04U)
 Retail, storage tank (I-PP-820-01U)
 Retail, storage tank (I-PP-820-02U)
 Retail, No. 2 fuel oil storage tank (I-PP-820-03U)
 Consolidated Fuel Dispensing - Diesel, Zone A (I-A-DISP-DIESEL)

Emission Source Description (ID No.)

Consolidated Fuel Dispensing – Gasoline, Zone A (I-A-DISP-GAS)
 Consolidated Fuel Dispensing –JP8, Zone A (I-A-DISP-JP8)
 Consolidated Fuel Dispensing –E85, Zone A (I-A-DISP-E85)
 Aboveground fuel storage tank – diesel (I-A-HP-1-01)
 One underground fuel storage tank, I-HP-961-01A)
 One underground fuel storage tank, I-HP-961-02A)
 Storage tank (diesel fuel, aboveground, vertical, I-HP-961-03A)
 Storage tank (diesel fuel, aboveground, horizontal, I-HP-961-04A)
 Storage tank (diesel fuel, aboveground, horizontal, I-HP-961-05A)
 Storage tank (diesel fuel, aboveground, horizontal, I-HP-961-06A)
 Storage tank (I-HP-S973-01A)
 Storage tank (I-NH-100-02A)
 Storage tank (I-NH-100-03A)
 Storage tank (I-NH-100-04A)
 No. 2 fuel oil storage tank (I-A-SA52-02A)
 No. 2 fuel oil storage tank (I-A-SA52-03A)
 No. 2 fuel oil storage tank (I-A-SA52-04A)
 No. 2 fuel oil storage tank (I-A-SA52-01A)
 Storage tank (I-A-SA77-01A)
 No. 2 fuel oil storage tank (I-AS-110-01A)
 No. 2 fuel oil storage tank (I-AS-110-02A)
 No. 2 fuel oil storage tank (I-AS-122-01A)
 Storage tank (I-AS-143-01A)
 One No. 2 fuel oil storage tank (I-AS-212-01A)
 One underground fuel storage tank (I-AS-2800-01A)
 One No. 2 fuel oil storage tank (I-AS-2800-02A)
 Above ground gasoline storage tank (3,000 gallon capacity, I-AS-2820-01A)
 One No. 2 fuel oil storage tank (I-AS-3504-01A)
 Retail, one fuel storage tank (I-AS-410-01U)
 Retail, one fuel storage tank (I-AS-410-02U)
 Retail, one No. 2 fuel storage tank (I-AS-410-03U)
 Retail, one No. 2 fuel oil storage tank (I-AS-410-04U)
 Consolidated fuel dispensing (I-AS-410-ND)
 No. 2 fuel oil storage tank (I-AS-4135-01A)
 One fuel storage tank (I-AS-4135-02A)
 One underground fuel storage tank (I-AS-4146-01U)
 One No. 2 fuel oil storage tank (I-AS-4146-02U)
 One No. 2 fuel oil storage tank (I-AS-4151-01A)
 One No. 2 fuel oil storage tank (I-AS-4151-02A)
 One No. 2 fuel oil storage tank (I-AS-4159-02A)
 One No. 2 fuel oil storage tank (I-AS-4159-03A)
 One underground fuel storage tank (I-BB-SBB99-1U)

Emission Source Description (ID No.)

Storage Tank (JP-5 fuel, underground, I-AS-498-01U)
 Consolidated Fuel Dispensing (I-AS-507-ND)
 Storage Tank (JP-5 fuel, underground, I-AS-498-02U)
 Consolidated Fuel Dispensing (I-AS-508-1-ND)
 Storage tank (JP-5 fuel, underground, I-AS-512-01U)
 Consolidated Fuel Dispensing (I-AS-511-1D)
 Storage tank (JP-5 fuel, underground, I-AS-512-02U)
 Consolidated Fuel Dispensing (I-AS-511-2D)
 One No. 2 fuel oil storage tank (I-AS-701-01A)
 One No. 2 fuel oil storage tank (I-AS-705-01U)
 One No. 2 fuel oil storage tank (I-AS-710-01A)
 Storage tank (I-AS-77-01A)
 One No. 2 fuel oil storage tank (I-AS-804-01A)
 One No. 2 fuel oil storage tank (I-AS-840-01A)
 One No. 2 fuel oil storage tank (I-AS-843-01A)
 One No. 2 fuel oil storage tank (I-AS-TC1500-01A)
 Storage Tank (No. 2 fuel, aboveground, horizontal, I-BB-9-01A)
 Storage Tank (No. 2 fuel, aboveground, horizontal, I-BB-9-02A)
 Storage Tank (No. 2 fuel, aboveground, horizontal, I-BB-9-03A)
 Consolidated Fuel Dispensing - Diesel, Zone B (I-B-DISP-DIESEL)
 Consolidated Fuel Dispensing - Gasoline, Zone B (I-B-DISP-GAS)
 Consolidated Fuel Dispensing - JP-8, Zone B (I-B-DISP-JP-8)
 Consolidated Fuel Dispensing -JP-8, Zone B (I-B-DISP-JP8)
 One underground fuel storage tank (I-BA-134-01A)
 Storage tank (I-BB-102-01A)
 Retail, one fuel storage tank (I-BB-177-01U)
 Retail, one fuel storage tank (I-BB-177-02U)
 Retail, one fuel storage tank (I-BB-177-03U)
 Storage tank (underground, I-BB-246-01A)
 Storage tank (No. 2 fuel oil, I-BB-49-01A))
 One No. 2 fuel oil storage tank (I-BM-5400-01A)
 One No. 2 fuel oil storage tank (I-PP-825-01A)
 Storage tank (I-C-AS-146-01A)
 Consolidated Fuel Dispensing (I-C-AS-146-01AD)
 Consolidated Fuel Dispensing (I-C-AS-146-02AD)
 Consolidated Fuel Dispensing (I-C-AS-146-03AD)
 Consolidated Fuel Dispensing (I-C-AS-146-04AD)
 Consolidated Fuel Dispensing - Diesel, Zone C (I-C-DISP-DIESEL)
 Consolidated Fuel Dispensing - Gasoline, Zone C (I-C-DISP-GAS)
 Consolidated Fuel Dispensing - JP-5, Zone C (I-C-DISP-JP-5)
 Consolidated Fuel Dispensing - JP-8, Zone C (I-C-DISP-JP-8)

Emission Source Description (ID No.)

One No. 2 fuel oil storage tank (I-CG-TC608-01A)
 One No. 2 fuel oil storage tank (I-CG771-01A)
 One No. 2 fuel oil storage tank (I-CG773-03A)
 One No. 2 fuel oil storage tank (I-CG774-01A)
 One No. 2 fuel oil storage tank (I-CG775-01A)
 One No. 2 fuel oil storage tank (I-CG-TC365-01A)
 One No. 2 fuel oil storage tank (I-CG-TC365-02A)
 One No. 2 fuel oil storage tank (I-CG-TC365-03A)
 One underground fuel storage tank (I-CG-TC365-04A)
 Storage tank (I-FC-100-03A)
 Storage tank (I-FC-100-04A)
 One No. 2 fuel oil storage tank (I-FC-120-01A)
 Storage Tank (diesel fuel, underground, I-FC-195-04U)
 Storage Tank (diesel fuel, underground, I-FC-195-03U)
 Storage Tank (I-FC-195-02U)
 Storage Tank (I-FC-195-01U)
 No. 2 fuel oil storage tank (I-FC-230-01U)
 No. 2 fuel oil storage tank (I-FC-230-02U)
 One underground fuel storage Tank (I-FC-241-01A)
 One No. 2 fuel oil storage tank (I-FC-241-02A)
 One No. 2 fuel oil storage tank (I-FC-241-05A)
 No. 2 fuel oil storage tank (I-FC-255-01U)
 One No. 2 fuel oil storage tank (I-FC-263-01U)
 One No. 2 fuel oil storage tank (I-FC-263-03U)
 No. 2 fuel oil storage tank (I-FC-270-01U)
 No. 2 fuel oil storage tank (I-FC-270-02U)
 No. 2 fuel oil storage tank (I-FC-280-01A)
 No. 2 fuel oil storage tank (I-FC-280-03A)
 Retail, storage tank (I-FC-298-01U)
 Retail, storage tank (I-FC-298-02U)
 Retail, storage tank (I-FC-298-03U)
 One No. 2 fuel oil storage tank (I-FC-40-01A)
 One No. 2 fuel oil storage tank (I-FC-442-01A)
 One No. 2 fuel oil storage tank (I-FC-443-03A)
 One No. 2 fuel oil storage tank (I-FC-445-01A)
 No. 2 fuel oil storage tank (I-HP-HP100-04U)
 One fuel storage tank (I-HP-HP100-05U)
 One No. 2 fuel oil storage tank (I-HP-1101-01A)
 Retail, One fuel storage tank (I-HP-1613-01A)
 Retail, One fuel storage tank (I-HP-1613-02A)
 Retail, One fuel storage tank (I-HP-1613-03A)
 One No. 2 fuel oil storage tank (I-HP-1700-01A)
 One No. 2 fuel oil storage tank (I-HP-S1735-01A)
 One No. 2 fuel oil storage tank (I-HP-S1735-02A)
 One No. 2 fuel oil storage tank (I-HP-1765-01A)
 One underground fuel storage tank (I-AS-2804-N)
 One No. 2 fuel oil storage tank (I-AS-3625)

Emission Source Description (ID No.)

Storage tank (I-HP-HP237-05U)
 Storage tank (I-HP-HP237-06U)
 One No. 2 fuel oil storage tank (I-HP-HP250-01U)
 One No. 2 fuel oil storage tank (I-HP-590-01A)
 One No. 2 fuel oil storage tank (I-PG-670-01A)
 One No. 2 fuel oil storage tank (I-HP-989-01A)
 One No. 2 fuel oil storage tank (I-HP-H1-02A)
 One Kerosene fuel storage tank (I-HP-S971-01A)
 One underground fuel storage tank (I-HP-S972-01A)
 One No. 2 fuel oil storage tank (I-PG-STP-446-01A)
 One underground fuel oil storage tank (I-PG-STP-446-02A)
 One No. 2 fuel oil storage tank (I-PG-TP457-01A)
 Retail, One fuel storage tank (I-LCH-4034-01A)
 Retail, One fuel storage tank (I-LCH-4034-02A)
 Retail, One fuel storage tank (I-LCH-4034-03A)
 One underground fuel oil storage tank (I-LCH-45-04U)
 One No. 2 fuel oil storage tank (I-M-119-01A)
 One No. 2 fuel oil storage tank (I-M-230-02A)
 Storage tank (No. 2 fuel oil, aboveground, vertical, I-A-MP-230-01)
 One No. 2 fuel oil storage tank (I-M-255-01A)
 One No. 2 fuel oil storage tank (I-M-625-01A)
 One No. 2 fuel oil storage tank (I-M-625-02A)
 One No. 2 fuel oil storage tank (I-M-90-01A)
 Retail, One No. 2 fuel oil storage tank (I-M-90-02A)
 One No. 2 fuel oil storage tank (I-PP-1943-01A)
 One No. 2 fuel oil storage tank (I-PP-S47A-01A)
 Storage tank (I-RR-15-01A)
 Storage tank (I-RR-15-02A)
 Storage tank (I-RR-15-03A)
 Storage tank (I-RR-15-04A)
 Storage tank (I-RR-15-05A)
 One No. 2 fuel oil storage tank (I-TT-2457-01A)
 One No. 2 fuel oil storage tank (I-TT-2463-01A)
 One No. 2 fuel oil storage tank (I-TT-2473-01A)
 Retail, One fuel storage tank (I-TT-2478-01U)
 Retail, One fuel storage tank (I-TT-2478-02U)
 Retail, One fuel storage tank (I-TT-2478-03U)
 Retail, One No. 2 fuel storage tank (I-TT-2478-04U)
 One No. 2 fuel oil storage tank (I-TT-60-01A)
 Storage tank (No. 2 fuel oil, underground, I-VL-TFM103-01U)
 Storage tank (No. 2 fuel oil, aboveground, I-CG-SG650-01A)
 Storage tank (No. 2 fuel oil, aboveground, I-CG-SG650-02A)
 Storage tank (No. 2 fuel oil, aboveground, I-SH-1650-01A)
 Storage tank (1K, gasoline, I-NH-118-01A)
 Storage tank (2K, No. 2 FO, I-NH-118-02A)
 One underground fuel storage tank (I-M-90-03U)
 One underground fuel storage tank (I-TT-69-01U (TT-49-1)

Emission Source Description (ID No.)
One boiler (No. 2 fuel oil, I-A-BM-825-H1)
One boiler (No. 2 fuel oil, I-A-BM-825-12)
One boiler (No. 2 fuel oil, I-A-BM-825-13)
One boiler (No. 2 fuel oil, I-A-BM-835-06)
One boiler (No. 2 fuel oil, I-A-BM-835-07)
One boiler (No. 2 fuel oil, I-A-FC-260-90)
One boiler (No. 2 fuel oil, I-A-HP-989-31)
One boiler (No. 2 fuel oil, I-A-HP-738-59)
One boiler (No. 2 fuel oil, I-A-LCH-4022-19)
One boiler (No. 2 fuel oil, I-A-MG-SH8-58)
One boiler (No. 2 fuel oil & natural gas-fired, I-A-NH-100-05)
One boiler (No. 2 fuel oil, I-A-NH-118-03)
One boiler (No. 2 fuel oil, I-A-NH-120-04)
One boiler (No. 2 fuel oil, I-A-NH-120-H4)
One boiler (No. 2 fuel oil, I-A-NH-121-01)
One boiler (No. 2 fuel oil, I-A-NH-121-H1)
One boiler (No. 2 fuel oil, I-A-PP-1943-08)
One boiler (No. 2 fuel oil, I-A-PP-1943-H7)
One boiler (No. 2 fuel oil, I-A-TT-2457-66)
One boiler (No. 2 fuel oil, I-A-TT-44-30)
One boiler (No. 2 fuel oil, I-A-TT-60-79)
Boiler using No. 2 oil, I-B-A-A1-50)
Boiler using No. 2 oil, I-B-A-A47-51)
One boiler (No. 2 fuel oil, I-B-BB-49-52)
One boiler (Natural gas, I-C-AS-90)
Boiler (No. 2 fuel oil, I-C-AS-705-11)
One boiler (No. 2 fuel oil, I-C-AS-2800-12)
One boiler (No. 2 fuel oil, I-C-AS-3502-08)
One boiler (No. 2 fuel oil, I-C-TC-1500-60)
One boiler (No. 2 fuel oil, I-C-AS-3504-09)
One boiler (No. 2 fuel oil, I-C-AS-3525-15)
One boiler (No. 2 fuel oil, I-C-AS-710-03)
One boiler (No. 2 fuel oil, I-C-AS-840-13)
One boiler (No. 2 fuel oil, I-C-AS-843-14)
One boiler (No. 2 fuel oil, I-C-CG-480-89)
One boiler (No. 2 fuel oil, I-C-VL-TFM103-1)
One boiler (No. 2 fuel oil, I-C-VL-TFM104-1)
One boiler (Propane, I-C-VL-TFM203-1)
One boiler (Propane, I-C-VL-TFM203-2)
One boiler (Propane, I-C-VL-TFM204-1)
One boiler (Propane, I-C-VL-TFM204-2)
One boiler, liquefied petroleum-fired, (I-A-HP-259-01)
One boiler, liquefied petroleum-fired, (I-A-HP-359-01)
One boiler, natural gas-fired (I-A-MP-207-01)
One boiler, natural gas-fired (I-A-MP-209-01)
One boiler, natural gas-fired (I-A-MP-232-01)
One boiler, natural gas-fired (I-A-MP-231-02)
One boiler (No. 2 fuel oil, I-A-BM-890-H10)
One boiler (No. 2 fuel oil, I-A-BM-890-H9)
One boiler (No. 2 fuel oil, I-A-FC-440-04)
One boiler (No. 2 fuel oil, I-A-HP-670-88)
One boiler (No. 2 fuel oil, I-A-LCH-4014-17)
One boiler (No. 2 fuel oil & natural gas-fired, I-A-MP-230-38)
One boiler (No. 2 fuel oil & natural gas-fired, I-A-MP-230-39)
One boiler (No. 2 fuel oil & natural gas-fired, I-A-MP-230-40)

Emission Source Description (ID No.)

One boiler (No. 2 fuel oil, I-A-TT-60-78)
 One boiler (Natural gas, I-A-TT-84-23)
 One boiler (Natural gas, I-A-TT-84-24)
 One boiler (No. 2 fuel oil & natural gas, I-A-TT-86-25)
 One boiler (No. 2 fuel oil & natural gas, I-A-TT-86-26)
 One boiler (No. 2 fuel oil, I-A-BM-5400-80)
 One boiler (No. 2 fuel oil, I-A-BM-5400-81)
 One boiler (No. 2 fuel oil, A-HP-40-75)
 One boiler (No. 2 fuel oil, A-HP-40-76)
 One boiler (No. 2 fuel oil, C-AS-705-11)
 One boiler (No. 2 fuel oil, B-A-A1-50)
 Outboard gasoline engine test stand (I-B-BB-329-01)
 Wastewater treatment facility (I-A-FC-440-01)

Natural gas-fired boiler (1.825 million Btu per hour heat input capacity) (I-C-AS-100-02)
 Natural gas-fired boiler (1.124 million Btu per hour heat input capacity)(I-C-AS-236-01)
 Natural gas-fired boiler (2.07 million Btu per hour heat input capacity) (I-C-AS-4000-01)
 Natural gas-fired boiler (0.726 million Btu per hour heat input capacity) (I-C-AS-4000-H1)
 Natural gas-fired boiler (1.825 million Btu per hour heat input capacity) (I-C-AS-4035-01)
 Natural gas-fired boiler (1.124 million Btu per hour heat input capacity) (I-C-AS-4035-H1)
 Natural gas-fired boiler (1.8 million Btu per hour heat input capacity) (I-C-AS-4201-01)
 Natural gas-fired boiler (0.99 million Btu per hour heat input capacity) (I-C-AS-4201-H1)
 Hot Water Pressure Washer (I-C-SRR-431-01)
 Hot Water Pressure Washer (I-C-SRR-432-01)
 1.05 mmBTU/HR liquid propane (LP) H&V Unit (I-C-RR-430-04)
 0.95 mmBTU/HR LP fired boiler (I-C-RR-143-01)
 0.95 mmBTU/HR LP fired boiler (I-C-RR-143-02)
 0.95 mmBTU/HR LP fired boiler (I-C-RR-143-03)
 0.75 mmBTU/HR LP fired domestic water heater (I-C-RR-139-H1)
 0.75 mmBTU/HR LP fired domestic water heater (I-C-RR-139-H2)
 0.75 mmBTU/HR LP fired domestic water heater I-C-RR-140-H1)
 0.75 mmBTU/HR LP fired domestic water heater (I-C-RR-140-H2)
 0.75 mmBTU/HR LP fired domestic water heater (I-C-RR-141-H1)
 0.75 mmBTU/HR LP fired domestic water heater (I-C-RR-141-H2)
 0.6 mmBTU/HR LP fired domestic water heater (I-C-RR-415-H1)
 0.6 mmBTU/HR LP fired domestic water heater (I-C-RR-415-H2)
 0.6 mmBTU/HR LP fired domestic water heater (I-C-RR-460-H1)
 0.6 mmBTU/HR LP fired domestic water heater (I-C-RR-460-H2)
 1.4 mmBTU/HR LP fired boiler (I-C-RR-400-01)
 1.4 mmBTU/HR LP fired boiler (I-C-RR-400-02)
 1.4 mmBTU/HR LP fired boiler (I-C-RR-400-03)
 1.4 mmBTU/HR LP fired boiler (I-C-RR-400-04)
 0.6 mmBTU/HR LP fired domestic water heater (I-C-RR-400-H1)
 0.6 mmBTU/HR LP fired domestic water heater(I-C-RR-400-H2)
 Welding hood at Motor testing/Maintenance building (I-C-RR-430-03)
 Welding hood at Motor testing/Maintenance building (I-C-RR-455-01)
 AST (I-RR-Diesel-01A)
 AST (I-RR-Gasoline-02A)
 Welding hood at Motor testing/Maintenance building (I-B-A-A66-01)
 Welding (I-A-FC-200-05)
 Welding (I-A-FC-143-02)
 Welding (I-A-FC-286-10)
 Welding (I-A-FC-441-01)
 Welding (I-A-HP-1249-05)
 Welding (I-A-NH-100-13)
 Welding (I-C-AS-4146-06)
 Welding (I-D-SR-54-01)

Emission Source Description (ID No.)

Welding (I-A-FC-375-04)

10,000 gallon E85, AST (I-TC 365-05A)

Natural gas-fired boiler (1.261 million Btu per hour heat input capacity), Building PP-2615 (I-A-PP-2615-09B)

Natural gas-fired boilers (1.261 million Btu per hour heat input capacity), Building PP-2615 (I-A-PP-2615-10B)

Natural gas-fired water heater (2.01 million Btu per hour heat input capacity) (I-A-PP-2615-11)

Natural gas-fired boiler (0.99 million Btu per hour heat input capacity) (I-A-PP-2617-01)

Natural Gas-fired Boiler (0.4 million Btu per hour heat input capacity), located at Building AS-4013, MCAS New River (I-C-AS-4013-02)

Natural Gas-fired Boiler (0.4 million Btu per hour heat input capacity), located at Building 2050 (I-A-BM-2050-01)

Natural Gas-fired Boiler (0.4 million Btu per hour heat input capacity), located at Building 2051 (I-A-BM-2051-01)

Diesel Fuel-fired Emergency Generator (150 kW output) located at Building AS-108, Main Gate at MCAS New River (I-C-AS-180-01)

Diesel Fuel-fired Emergency Generator (135 kW output) located at Building 985, Piney Green Gate (I-A-HP-985-01)

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit".

State of North Carolina,
Department of Environment,
and Natural Resources

Division of Air Quality



AIR QUALITY PERMIT

Permit No.	Replaces Permit No.(s)	Effective Date	Expiration Date
06591T24	06591T23	XX XX, 2011	February 28, 2014

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: United States Marine Corps Base AT Camp Lejeune
Facility ID: 6700011

Facility Site Location: Camp Lejeune
City, County, State, Zip: Camp Lejeune, Onslow County, NC 28542-0004

Mailing Address: EMD/EQB; PSC Box 20004
City, State, Zip: Camp Lejeune, Onslow County, NC 28542-0004

Application Number: 6700011.10C
Complete Application Date: September 11, 2009

Primary SIC Code: 9711

Division of Air Quality,
Regional Office Address: Wilmington Regional Office
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

Permit issued this the XX day of XX, 2011

Donald R. van der Vaart, Ph.D., P.E., J.D., Chief, Air Permits Section
By Authority of the Environmental Management Commission

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SECTION 1- PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE AND APPURTENANCES

The following table contains a summary of all permitted emission sources and associated air pollution control devices and appurtenances:

Emission Source	Source Description	Control Device	Control Device Description
Boilers			
A-HP-1700-01 2D .1109 Case-by-Case MACT	Coal /contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boiler (114.5 million Btu per hour heat input capacity), located at Building HP-1700, Main Steam Plant ¹	CD-01a.1 CD-01a.2	Two multi-cyclones (ninety-two 4.25 inch diameter tubes each multi-cyclone) installed the exhausts of boilers (A-HP-1700-01 and A-HP-1700-02) in series with: One single-stage, dry type electrostatic precipitator (36,540 square feet of plate area)
A-HP-1700-02 2D .1109 Case-by-Case MACT	Coal /contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boiler (114.5 million Btu per hour heat input capacity), located at Building HP-1700, Main Steam Plant ¹	CD-01b	
A-HP-1700-03 2D .1109 Case-by-Case MACT	Coal /contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boiler (114.5 million Btu per hour heat input capacity), located at Building HP-1700, Main Steam Plant ¹	CD-02a.1 CD-02a.2	Two multi-cyclones (ninety-two 4.25 inch diameter tubes each multi-cyclone) installed the exhausts of boilers (A-HP-1700-03 and A-HP-1700-04) in series with: One single-stage, dry type electrostatic precipitator (36,540 square feet of plate area)
A-HP-1700-04 2D .1109 Case-by-Case MACT	Coal /contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boiler (114.5 million Btu per hour heat input capacity), located at Building HP-1700, Main Steam Plant ¹	CD-02b	
A-HP-1700-05 NSPS, Subpart Dc 2D .1109 Case-by-Case MACT	No. 2 fuel oil/natural gas-fired boiler (95 million Btu per hour maximum heat input capacity), located at the Main Steam Plant	CD-06	One flue gas recirculation system
C-CG-650-83B C-CG-650-84B NSPS, Subpart Dc 2D .1109 Case-by-Case MACT	Two No. 2 fuel oil/natural gas-fired, "water tube design" replacement boilers (50.0 million Btu per hour heat input capacity each), located at Camp Geiger	None	None
C-CG-650-85 NSPS, Subpart Dc 2D .1109 Case-by-Case MACT	No. 2 fuel oil/natural gas-fired boiler (30.6 million Btu heat input capacity when firing No. 2 fuel oil and 31.6 when firing natural gas), located at Camp Geiger	None	None
B-BB-9-53B NSPS, Subpart Dc 2D .1109 Case-by-Case MACT	One No. 2 fuel oil-fired, "water tube design" replacement boiler (26.0 million Btu per hour heat input capacity), located at the Court House Bay Area	None	None
B-BB-9-55 NSPS, Subpart Dc 2D .1109 Case-by-Case MACT	One No. 2 fuel oil-fired boiler (18.4 million Btu per hour heat input capacity) located at the Court House Bay Area	None	None
B-BB-9-54 2D .1109 Case-by-Case MACT	One No. 2 fuel oil-fired boiler (25.1 million Btu per hour heat input capacity), located at the Court House Bay Area	None	None

¹ Contraband, prohibited goods, or retired U.S. flags, burned at the request of a government agency

Emission Source	Source Description	Control Device	Control Device Description
C-RR-15-46B C-RR-15-47B NSPS, Subpart Dc 2D .1109 Case-by- Case MACT	Two No. 2 fuel oil-fired replacement boilers (10.5 million Btu per hour heat input capacity each), Building RR-15, located at the Rifle Range	None	None
A-MP-625-72 A-MP-625-73 A-MP-625-74 2D .1109 Case-by- Case MACT	Three No. 2 fuel oil/natural gas-fired boilers (29.94 million Btu per hour heat input capacity each), Building M-625, located at Montford Point	None	None
C-AS-4151-16 C-AS-4151-17A C-AS-4151-18 NSPS, Subpart Dc 2D .1109 Case-by- Case MACT	Three No. 2 fuel oil/JP-5/JP-8/natural gas – fired boilers (48.0 million Btu per hour heat input capacity each), located at the Air Station	None	None
A-NH-100-01 A-NH-100-02 2D .1109 Case-by- Case MACT	Two No. 2 fuel oil/natural gas-fired boilers (14.645 million Btu heat input capacity each), located at the Naval Hospital	None	None
Fuel Storage			
A-HP-961-10	One above ground vertical fixed roof gasoline storage tank equipped with an internal floating roof (60,000 gallon capacity)	None	None
Emergency Generators			
A-HP-1700-13	No. 2 fuel-oil fired emergency generator (540 hp capacity), located at the Main Steam Plant	None	None
A-NH-100-10B A-NH-100-11B A-NH-100-12B MACT, Subpart ZZZZ	Three diesel-fired emergency generators (1495 brake horsepower each), located at the Naval Hospital	None	None
A-FC-445-01 A-FC-443-02	Two diesel-fired emergency generators (750 kW each) located at the French Creek Area wastewater treatment plant	None	None
A-FC-442-03	Diesel-fired emergency generator (910 kW) located at the French Creek Area wastewater treatment plant	None	None
A-HP-590-01	Diesel-fired emergency generator (850 hp capacity)	None	None
C-RR-3-01	Diesel-fired emergency generator (900 hp capacity)	None	None
A-HP-9-01	Diesel-fired emergency generator (540 hp capacity)	None	None
A-FC-540-01 MACT, Subpart ZZZZ	Diesel-fired emergency generator (1,500 kW)	None	None
A-HP-411-01 MACT, Subpart ZZZZ	Diesel-fired emergency generator (500 kW)	None	None

Emission Source	Source Description	Control Device	Control Device Description
B-BB-9-04 MACT, Subpart ZZZZ	Diesel-fired emergency generator (500 kW)	None	None
C-AS-110-06 MACT, Subpart ZZZZ	One diesel-fired emergency generator (400 kW)	None	None
A-HP-1230-02 MACT, Subpart ZZZZ	One diesel-fired emergency generator (1000 kW, 1341.02 brake horsepower)	None	None
A-HP-54-02 MACT, Subpart ZZZZ	Diesel-fired emergency generator (500 kW, 671 brake horsepower)	None	None
A-MP-455-01B MACT, Subpart ZZZZ NSPS, Subpart III	Diesel-fired emergency generator (1250 kW, 1676.28 brake horsepower)	None	None
A-MP-455-02B MACT, Subpart ZZZZ NSPS, Subpart III	Diesel-fired emergency generator (400 kW, 536.41 brake horsepower)	None	None
C-RR-400-05 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-405-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (2144 HP/1600 kW)	N/A	N/A
C-RR-430-05 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (804 HP/600 kW)	N/A	N/A
C-RR-425-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-440-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (268 HP/200 kW)	N/A	N/A
C-RR-134-01 MACT, Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
C-SRR-470-01 MACT, Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
A-HP-128-01 * MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator (600 kWe output) located in building 128	N/A	N/A

Emission Source	Source Description	Control Device	Control Device Description
A-HP-227-01 * MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator (810 kWe output) located in building 227	N/A	N/A
C-AS-4013-01 * MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator (1,000 kWe output) located in building AS-4013, MCAS New River	N/A	N/A
Peak shaving/emergency generator			
A-HP-45-01 MACT Subpart ZZZZ	Diesel-fired peak shaving/emergency generator (1600 kW), located at Building 45	None	None
Engine test stations/test stands			
A-FC-280-11	Internal combustion engine test station, located in the Field Maintenance Complex	None	None
A-FC-280-12	Internal combustion engine test station, located in the Field Maintenance Complex	None	None
A-FC-280-13	Internal combustion engine test station, located in the Field Maintenance Complex	None	None
A-FC-280-14	Internal combustion engine test station, located in the Field Maintenance Complex	None	None
C-AS-531-01	Jet engine test station	None	None
B-A-72-03	Outboard gasoline engine test stand	None	None
B-BA-134-02	Outboard gasoline engine test stand	None	None
A-HP-1409-02	Internal combustion engine test station	None	None
A-MP-107-11	JP8 Fuel-fired Engine Test Stand (150 HP) for teaching purposes only	None	None
A-MP-107-12	JP8 Fuel-fired Engine Test Stand (425 HP) for teaching purposes only	None	None
A-FC-365-02	JP8 Fuel-fired Engine Test Stand (300 HP)	None	None
A-HP-1854-11	JP8 Fuel-fired Engine Test Stand (1500 HP)	None	None
B-A-A47-05	JP8 Fuel-fired Engine Test Stand (525 HP)	None	None
A-FC-143-01	Boat Motor Gasoline-fired Engine (not to exceed 125 HP) Test Tank	None	None
B-A-A69-01	Boat Motor JP8-fired Engine (not to exceed 90 HP) Test Tank	None	None
C-RR-430-01	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	N/A	N/A
C-RR-430-02	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	N/A	N/A
Paint spray booths			
A- HP-1202-78	One water wash paint spray booth, located at the base maintenance shop, Building 1202, Hadnot Point	None	None
A-HP-908-01	One paint spray booth, equipped with high-volume, low-pressure applicator guns, located in Building 908, Hadnot Point	None	None
C-AS-4146-05	One paint spray booth located in Building AS-4146, New River	None	None

Emission Source	Source Description	Control Device	Control Device Description
C-AS-4106-01 MACT, Subpart GG	One paint spray booth in general painting operations located in Building AS-4106, New River	CD-8	One 3-stage HEPA filter
C-AS-116-01	One dry filter type paint spray booth in auto hobby shop paint shop, located in Building AS-116, New River	None	None
C-AS-4135-01	One water wash-type paint spray booth in a metal parts coating operation located in Building AS-4135, New River	None	None
C-AS-3900-01 C-AS-3900-02 C-AS-3900-03 MACT, Subpart GG	One paint hangar (part of corrosion control facility) one corrosion control paint booth (part or corrosion control facility), and one grinding booth (part of corrosion control facility)	CD-13	One cartridge-type filter (7,080 square feet of filter surface area) installed on grinding booth
A-HP-1249-03	One paint spray booth in the auto hobby shop, located in Building 1249, formerly ES1 from Building 1113	None	None
A-HP-1041-01	One dry filter type paint spray booth,	None	None
A-FC-286-12	Dry filter type paint spray booth, located in the Field Maintenance Complex	None	None
A-FC-286-13	Dry filter type paint spray booth, located in the Field Maintenance Complex	None	None
C-AS-518-12 MACT, Subpart GG	One dry filter paint spray booth, located in Building AS-518	None	None
A-FC-280-10	One dry filter type paint spray booth, located in the Field Maintenance Complex	None	None
A-FC-286-20	One dry filter type paint booth, located in the Field Maintenance Complex	None	None
C-MAG26-FUGITIVE MACT, Subpart GG	All fugitive painting operations subject to MACT, Subpart GG	None	None
C-MAG29-FUGITIVE MACT, Subpart GG	All fugitive painting operations subject to MACT, Subpart GG	None	None
C-VERTEX-FUGITIVE MACT, Subpart GG	All fugitive painting operations subject to MACT, Subpart GG	None	None
C-VERTEXC12-FUGITIVE MACT, Subpart GG	All fugitive painting operations subject to MACT, Subpart GG	None	None
C-NAVAIR-FUGITIVE MACT, Subpart GG	All fugitive painting operations subject to MACT, Subpart GG	None	None

Emission Source	Source Description	Control Device	Control Device Description
C-MAG26-HAND WIPE MACT, Subpart GG	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-MAG29-HAND WIPE MACT, Subpart GG	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-VERTEX-HAND WIPE MACT, Subpart GG	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-VERTEXC12-HAND WIPE MACT, Subpart GG	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-NAVAIR-HAND WIPE MACT, Subpart GG	All hand wipe solvent cleaning activities subject to MACT, Subpart GG	None	None
C-MAG26-FLUSH MACT, Subpart GG	All flush cleaning activities subject to MACT, Subpart GG	None	None
C-MAG29-FLUSH MACT, Subpart GG	All flush cleaning activities subject to MACT, Subpart GG	None	None
C-VERTEX-FLUSH MACT, Subpart GG	All flush cleaning activities subject to MACT, Subpart GG	None	None
C-VERTEXC12-FLUSH MACT, Subpart GG	All flush cleaning activities subject to MACT, Subpart GG	None	None
C-NAVAIR-FLUSH MACT, Subpart GG	All flush cleaning activities subject to MACT, Subpart GG	None	None
Woodworking			
A-HP-915-06	One woodworking operation	CD-15	One simple cyclone (30 inches in diameter)
A-HP-1202-02 A-HP-1202-04	Woodworking equipment in the carpentry shop, located in Building 1202, Hadnot Point	CD-03 CD-04	Two simple cyclones (36 inches in diameter each)
A-HP-1249-04	Woodworking operation in the hobby shop complex	CD-16	One cartridge-type filter system (2880 square feet of surface area)
Blasting operations			
A-FC-286-11	One silica, aluminum oxide, plastic bead, blasting operation, located in the Field Maintenance Complex	CD-08	One cartridge-type filter (28,800 square feet of surface area)
A-FC-286-21	One abrasive blasting booth, located in the Field Maintenance Complex	CD-17	One cartridge-type filter (28,800 square feet of surface area)

Landfill			
A-HP-982-01 NSPS	Two municipal solid waste landfills {(ID No. A-HP-982-01) active@ 668,525 Mega gram (Mg) capacity}	None	None
A-FC-FC18-01	and (ID No. A-FC-FC18-01), closed @ 884,982 ton capacity}}		
Miscellaneous			
A-HP-1068-01 MACT, Subpart GGGGG	Hadnot Point fuel Farm Southeast System, Bio Sparge Soil vapor Extraction	CD-14	One propane/natural gas-fired catalytic oxidizer (0.7 million Btu/hr heat input)
C-AS-139-01 MACT, Subpart GGGGG	Campbell Street Fuel Farm at MCAS, New River, Ex-situ Pump-and-Treat	None	None
A-HP-645-03 MACT, Subpart GGGGG	Bio Sparge Soil Vapor Extraction System	None	None
A-HP-900-01 MACT, Subpart GGGGG	Bio Sparge Soil Vapor Extraction System	None	None
B-BB-190-05 MACT, Subpart GGGGG	Bio Sparge Soil Vapor Extraction System	None	None
A-TT-2463-73 MACT, Subpart GGGGG	Bio Sparge Soil Vapor Extraction System	None	None
A-LCH-4015-04 MACT, Subpart GGGGG	Bio Sparge Soil vapor Extraction System	None	None
A-HP-45-05 MACT, Subpart GGGGG	Air Sparge Vapor Extraction System	None	None
C-AS-4158-04 MACT, Subpart GGGGG	Air Sparge Vapor Extraction System	None	None
C-AS-4141-01 MACT, Subpart GGGGG	JP-5 Line Area at MCAS, New River, Aggressive Fluid Vapor Recovery and Dual Phase Extraction	None	None
C-AS-497-01 MACT, Subpart GGGGG	JP-5 Rapid Aircraft Refueler at MCAS, New River Aggressive Fluid Vapor Recovery	None	None
A-HP-1111-01 MACT, Subpart GGGGG	Hadnot Point fuel farm Northwest System, Air Sparge Vapor Extraction System	None	None
C-AS-3625-05	Fire training pit	None	None
A-HP-TP-446-01	Fire training pit	None	None

* These emission sources are listed as a minor modification per 15A NCAC 2Q .0515. The compliance certification as described in General Condition P is required. Unless otherwise notified by NC DAQ, the affected terms of this permit (excluding the permit shield as described General Condition R) for this source shall become final on December 4, 2010. Until this date, the affected permit terms herein reflect the proposed operating language that the Permittee shall operate this source under pursuant to 15A NCAC 2Q .0515(f).

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1-Emission Source(s) and Control Device(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

- A. Four coal/contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boilers {114.5 million Btu per hour heat input capacity each, ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04} with four associated multi-cyclones (ninety-two 4.25 inch tubes each multi-cyclone) installed in series and two single-stage electrostatic precipitators (36,540 square feet of plate area each, ID Nos. CD-01 and CD-02). Two of the multicyclones in series with ESP (ID No. CD-01) are installed on the exhausts of boilers (ID Nos. A-HP-1700-01 and A-HP-1700-02) and two of the multicyclones in series with ESP (ID No. CD-02) are installed on the exhaust of boilers (ID Nos. A-HP-1700-03, and A-HP-1700-04). These boilers are located at the Main Steam Plant.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.20 pounds/million Btu heat input each boiler	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	40 percent opacity each boiler	15A NCAC 2D .0521
PM-10	Operation standards	15A NCAC 2D .0614 (Compliance Assurance Monitoring)
Hazardous Air Pollutants	<p><i>While burning coal</i></p> <p>Particulate Matter (filterable): 0.08 lb/MMBtu</p> <p>Mercury: 7.92 E-2 lb/hr total for A-HP-1700-01 and A-HP-1700-02</p> <p>Mercury: 9.76 E-2 lb/hr total for A-HP-1700-03 and A-HP-1700-04</p> <p>Hydrogen Chloride equivalent: 2.06 E3 lb/hr total for A-HP-1700-01 and A-HP-1700-02</p> <p>Hydrogen Chloride equivalent: 1.54 E3 lb/hr total for A-HP-1700-03 and A-HP-1700-04</p> <p>Carbon Monoxide: 133 ppmvd, 7% O₂</p> <p><i>While burning No. 2 fuel oil</i></p> <p>Best Combustion Practices - see Section 2.2 D.</p>	<p>15A NCAC 2D .1109</p> <p>112(j) Case-by-Case MACT</p>

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of coal, and No. 2 fuel oil, that are discharged from each boiler (ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04) into the atmosphere shall not exceed 0.20 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ of this permit. If the results of this test are above the limit given in Section 2.1 A. 1. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil in any of these boilers.

Monitoring [15A NCAC 2Q .0508(f)]

- d. Particulate matter emissions from the four boilers (**ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04**) when firing coal, shall be controlled by four multi-cyclones and two electrostatic precipitators, two multicyclones and one ESP on each pair of boilers. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. an annual internal inspection of the multicyclone's structural integrity; and
 - ii. a monthly external visual inspection of the system ductwork, and material collection unit for leaks.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if the multicyclones and ductwork are not inspected and maintained.

Recordkeeping [15A NCAC 2Q .0508(f)]

- e. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. a report of any maintenance performed on any multicyclone; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- f. Within 30 days of a written request from the DAQ, the Permittee shall submit a report of any maintenance performed on any multicyclone.
- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from each boiler (ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition A. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f) and 15A NCAC 2D .0501(c)(4)(A)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil.
- d. The maximum sulfur content of any coal received and burned in the boiler shall not exceed 1.5 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the coal exceeds this limit. [15A NCAC 2Q .0508(bb)]
- e. To assure compliance, the Permittee shall monitor the sulfur content of the coal by using coal supplier certification per total shipment received. The coal supplier certification shall be recorded in a logbook (written or electronic format) per total shipment and include the following information:
- i. the name of the coal supplier;
 - ii. the maximum sulfur content of the coal received per total shipment;
 - iii. a statement verifying that the methods used to determine the maximum sulfur content of the coal was in accordance with the following:
(A) sampling -- ASTM Method D 2234;

- (B) preparation -- ASTM Method D 2013;
 - (C) gross calorific value (Btu) -- ASTM Method D-5865;
 - (D) moisture content --ASTM Method D 3173;
 - (E) sulfur content -- ASTM Method D 3177 or ASTM Method D 4239; and
- vi. a certified statement signed by the responsible official that the records of coal supplier certification submitted represent all of the coal fired during the reporting period.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the coal is not monitored and recorded.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from each boiler (ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04) shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition A. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring [15A NCAC 2Q .0508(f)]

- d. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of No. 2 fuel oil in any boiler.

Monitoring [15A NCAC 2Q .0508(f)]

- e. To assure compliance, once a day the Permittee shall observe the emission points of this source for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period.
- i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in condition a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 2Q .0508(f)]

- f. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - iii. the results of any corrective actions performed.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- g. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. **Contraband, prohibited goods, and/or retired flags shall be burned only while the boilers are operating on coal, and the daily operations log at the Base will be notated when any burns occur.**

5. **15A NCAC 2D .0614: COMPLIANCE ASSURANCE MONITORING (CAM)**

a. Per 40 CFR 64 and 15A NCAC 2D .0614, the Permittee shall comply with the following.

b. **Background**

Emission Units

- i. Description: Four coal/contraband/prohibited goods/retired flags/No. 2 fuel oil-fired boilers (114.5 million Btu per hour heat input each).
- ii. Identification: **ID Nos. A-HP-1700-01, 02, 03, and 04**

c. **Applicable Regulation, Emission Limit, and Monitoring Requirements.**

- i. Regulations: 15A NCAC 2D .0503 and 2D .0521
- ii. Emission limits: 0.20 pounds particulate per million Btu heat input and 40% opacity
- iii. Control Technology: Two multi-cyclones (**CD-01a.1 and CD-01a.2**) installed on the exhausts of boilers (**A-HP-1700-01 and 02**), in series with one electrostatic precipitator (**CD-01b**) and two multi-cyclones (**CD-02a.1 and CD-02a.2**) installed on the exhausts of boilers (**A-HP-1700-03 and 04**) in series with one electrostatic precipitator (**CD-02b**).

d. **Monitoring Approach** [15A NCAC 2Q .0508(f), 40 CFR 64.6].

Monitoring Elements	Indicator
Measurement Approach [64.6(c)(1)(i), (ii)]	Once <u>per shift</u> , during daylight hours, the Permittee shall observe the emission points of these sources for any visible emissions above normal. The observations must be made for each shift of the calendar year period to ensure compliance with this requirement. For shifts with no daylight, the records must indicate that an observation could not be made. The Permittee shall be allowed three days of absent observations per semi-annual period. No observations shall be required when an emission unit is not firing coal. If visible emissions from this source are observed to be above normal, the Permittee shall either: <ul style="list-style-type: none"> i. take appropriate action to correct the above normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.5.c. above.
Indicator Range [64.6(c)(2)]	An excursion is defined as visible emissions above normal. Excursions trigger an inspection and corrective action.
QIP threshold [64.8]	The QIP threshold is six excursions in a six-month reporting period.
Data Representativeness [64.6(c)(1)(iii), 64.3(b)(1)]	Measurements are being made at the emission points.
Verification of Operational Status [64.3(b)(2)]	Units are in current operation.
QA/QC Practices and Criteria [64.3(b)(3)]	The observer will be familiar with the monitoring procedures used for compliance with 2D .0521.
Monitoring frequency [64.3(b)(4)]	One observation per boiler outlet shall be performed per shift.

Monitoring Elements	Indicator
Data collection procedure [64.3(b)(4)]	The results of the monitoring action will be recorded, including the date and time.

Recordkeeping Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- e. The owner or operator shall maintain records of the following:
 - i. Date and time and results of all monitoring activities;
 - ii. Information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; and
 - iii. Written QIP required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan.

Reporting Requirements [15A NCAC 2Q .0508(f), 40 CFR 64.9]

- f. The Permittee shall submit a summary report of all monitoring activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations for the requirements of this permit must be clearly identified. At a minimum, the report shall include the following elements:
 - i. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; and
 - ii. A description of the actions taken to implement a QIP during the reporting period as specified in 40 CFR 64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

6. 15A NCAC 2D .1109: Case by Case MACT

- a. Emissions of the following regulated pollutants shall not exceed the emissions limits listed below when firing coal in the affected boilers (**ID Nos. A-HP-1700-01, A-HP-1700-02, A-HP-1700-03, and A-HP-1700-04**):
 - i. Particulate Matter (filterable): 0.08 lb/MMBtu
 - ii. Mercury (Hg): 7.92 E-2 lb/hr total for A-HP-1700-01 and A-HP-1700-02
Mercury (Hg): 9.76 E-2 lb/hr total for A-HP-1700-03 and A-HP-1700-04
 - iii. Hydrogen Chloride-equivalent (HCl): 2.06 E3 lb/hr total for A-HP-1700-01 and A-HP-1700-02
Hydrogen Chloride-equivalent (HCl): 1.54 E3 lb/hr total for A-HP-1700-03 and A-HP-1700-04
HCl-equivalent is defined by the following equation:

$$E = E_{HCl} + E_{Cl_2} * (R_f C_{HCl} / R_f C_{Cl_2})$$

- Where:
- E = HCl-equivlent emission rate
 - E_{HCl} = HCl emission rate;
 - E_{Cl₂} = Cl₂ emission rate;
 - R_fC_{HCl} = Reference concentration for HCl (20 µg/m³); and
 - R_fC_{Cl₂} = Reference concentration for Cl₂ (0.15 µg/m³).

- iv. Carbon Monoxide (CO): 133 ppmvd, corrected to 7% oxygen

The initial compliance date for these emission limitations and associated monitoring, recordkeeping, and reporting requirements is **ENTER DATE**. These conditions need not be included on the annual compliance certification until after the initial compliance date. These limits apply except for periods of startup, shutdown, and malfunction. The Permittee shall follow the procedures in 15A NCAC 2D. 0535 for any excess emissions that occur during periods of startup, shutdown, or malfunction.

Compliance Testing for Particulate Matter & Carbon Monoxide [15A NCAC 2Q .0508(f)]

- b. The Permittee shall conduct initial and periodic stack tests for particulate matter (PM) and carbon monoxide (CO). The Permittee shall conduct stack testing. Stack tests shall be performed in accordance with General Condition JJ. Tests shall not be conducted during periods of malfunction (except as allowed by 15A NCAC 2D .2608), startup, or shutdown.
- i. During testing, the Permittee shall burn coal.
 - ii. Initial and annual testing is required, except as provided in (iii) below. Each annual stack test shall be conducted between 11 and 13 calendar months after the previous stack test.
 - iii. If a stack test shows that the emission rate is less than or equal to 80 percent of the allowable limit, the stack test frequency shall be reduced to once every five years. If any subsequent stack test shows that the emission rate of the pollutant is greater than 80 percent of the allowable limit, the Permittee shall perform an annual stack test for that pollutant until the emission rate is detected at less than or equal to 80 percent. Each stack test that is required every 5 years shall be conducted between 57 and 63 calendar months after the previous stack test.

The initial stack test shall be conducted within 180 days of the initial compliance date. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the required stack tests are not conducted, or if the results (except as allowed by 15A NCAC 2D .2608) of any stack test exceed the respective limit in Section 2.1 A.6.a. of this permit.

Compliance Testing for Hydrogen Chloride, Chlorine and Mercury [15A NCAC 2Q .0508(f)]

- c. The Permittee shall conduct compliance tests for hydrogen chloride (HCl), chlorine (Cl₂) and mercury (Hg). The Permittee may choose either of the following methods for demonstrating compliance:
- i. **Initial & Periodic Stack Testing.** Stack testing shall be performed in accordance with General Condition JJ in Section 3 of this permit. Tests shall not be conducted during periods of malfunction (except as allowed by 15A NCAC 2D .2608), startup, or shutdown. Initial and annual testing is required for coal. Each annual stack test shall be conducted between 11 and 13 calendar months after the previous stack test. Each stack test that is required every 5 years shall be conducted between 57 and 63 calendar months after the previous stack test.
 - (A) If a stack test shows that the emission rate of any pollutant is less than or equal to 80 percent of the allowable limit, the stack test frequency for that pollutant shall be reduced to once every five years. If any subsequent stack test shows that the emission rate of the pollutant is greater than 80 percent of the allowable limit, the Permittee shall perform an annual stack test for that pollutant until the emission rate is detected at less than or equal to 80 percent.
 - ii. **Fuel Analysis:** As an alternative to stack testing, the Permittee may use fuel analyses to demonstrate compliance with the hydrogen chloride-equivalent and mercury emission limitations as described in the monitoring provisions in Section 2.1. A.6.g., h., and i. below. Fuel analyses shall be conducted annually. Following the initial fuel analysis, each analysis shall be conducted between 11 and 13 months after the previous analysis. If a fuel analysis shows a potential exceedance of an emission limitation in Section 2.1. A.6.a., the Permittee shall conduct a follow-up stack test of the affected sources within 90 days of the fuel analyses. If the follow-up stack test shows an exceedance of the limit, the Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109.

Where required, the initial stack test shall be conducted within 180 days of the initial compliance date. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the required stack tests are not conducted, or if the results (except as allowed by 15A NCAC 2D .2608) of any stack test exceed a limit in Section 2.1 A.6.a. of this permit.

Work Practice Standards [15A NCAC 2Q .0508(f)]

- d. The Permittee shall conduct monthly and annual inspections of the multicyclones (**ID Nos. CD-01a.1, CD-01a.2, CD-02a.1 and CD-02a.2**) and record the results of inspections as provided in Section 2.1 A.1.d. and e. of this permit. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if these inspections are not performed or the required records are not created and maintained.

Operating Limits [15A NCAC 2Q .0508(f)]

- e. The Permittee shall maintain the 12-hour block average voltage and secondary current at each electrostatic precipitators (**ID Nos. CD-01b and CD-02b**) at or above the operating levels established during the most recent performance test that demonstrated compliance with the limits in Section 2.1 A.6.a. above.

Monitoring Requirements [15A NCAC 2Q .0508(f)]

- f. The Permittee shall install, operate, and maintain continuous monitoring systems (CMS) to measure and record the voltage and secondary current at each electrostatic precipitator (**ID Nos. CD-01b and CD-02b**).
- i. The monitors must complete a minimum of one cycle of operation for each successive 15-minute period. The monitors must record a minimum of four successive cycles of operation to have a valid hour of data.
- ii. For the purposes of calculating data averages, do not use data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required QA/QC activities.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the required monitoring is not conducted, or if the monitored operating parameters exceed the minimum limits established pursuant to Section 2.1 A.6.d. above.

Monitoring Requirements – Stack Testing [15A NCAC 2Q .0508(f)]

- g. Where the Permittee utilizes stack tests to demonstrate compliance, the Permittee shall maintain monthly records of fuel usage at each affected boiler and process heater. Records of fuel usage shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the fuel usage records are not created and maintained as described above.
- h. Once per calendar month, the Permittee shall calculate the HAP emission rates from the affected boilers using the stack test results. For each affected HAP and each affected combustion source, as required, the Permittee shall calculate:
- i. The average hourly emission rates for the previous calendar month for each pollutant with an hourly limit; and,
- ii. The total emission rates for the previous 12-calendar month period for each pollutant with a 12-calendar month rolling limit.

Records of emissions calculations shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the emissions calculations are not performed and recorded, or if any calculated emission rate exceeds an emissions limitation in Section 2.1 A.6.a. of this permit.

Monitoring Requirements – Fuel Analyses [15A NCAC 2Q .0508(f)]

- i. Where the Permittee utilizes fuel analyses to demonstrate compliance, the Permittee collect, composite, and prepare fuel samples in accordance with ASTM methods, or equivalent. The results of the fuel analyses shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the fuel analyses are not conducted or if results of the fuel analyses are not retained as required above.
- j. The Permittee shall maintain monthly records of fuel usage at each affected boilers. Records of fuel usage shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the fuel usage records are not created and maintained as described above.
- k. Once per calendar month, the Permittee shall calculate the HAP emission rates from the affected boilers using the fuel analysis results and stack test results where fuel analyses are not available. For each affected HAP and each affected combustion source, as required, the Permittee shall calculate:
- i. The average hourly emission rates for the previous calendar month for each pollutant with an hourly limit; and,

ii. The total emission rates for the previous 12-calendar month period for each pollutant with a 12-calendar month rolling limit.

Records of emissions calculations shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the emissions calculations are not performed and recorded, or if any calculated emission rate exceeds an emissions limitation in Section 2.1 A.6.a. of this permit.

Site-Specific Monitoring Plan [15A NCAC 2Q .0508(f)]

- i. The Permittee must develop a site-specific monitoring plan for each required continuous monitoring system (CMS). The plan shall be submitted to the NC DAQ Stationary Source Compliance Branch (SSCB) at least 60 days before the initial performance evaluation of the CMS. The plan must describe the elements listed below:
 - i. The measurement location such that the measurement is representative.
 - ii. Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems.
 - iii. Performance evaluation procedures and acceptance criteria (e.g., calibrations).
 - iv. Ongoing operation and maintenance procedures.
 - v. Ongoing data quality assurance procedures.
 - vi. Ongoing recordkeeping and reporting procedures.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the required monitoring plan is not developed or if the CMS are not maintained and operated in accordance with the plan.

Recordkeeping [15A NCAC 2Q .0508(f)]

- m. Maintain a copy of each notification and report required by this standard, including all documentation supporting any Notification of Compliance Status. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to comply with the recordkeeping requirements
- n. Maintain records of performance tests and fuel analyses. The Permittee shall be deemed in non-compliance with 15A NCAC 2D .1109 if it fails to comply with the recordkeeping requirements.
- o. For each required CMS, maintain the following records:
 - i. All required measurements needed to demonstrate compliance with a relevant standard (including, but not limited to, 15-minute averages of CMS data, raw performance testing measurements, and raw performance evaluation measurements, that support data that the source is required to report);
 - ii. A record of each period during which a CMS is malfunctioning or inoperative (including out-of-control periods);
 - iii. All CMS calibration checks; and,
 - iv. All adjustments and maintenance performed on CMS.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the required records are not created and maintained.

Reporting [15A NCAC 2Q .0508(f)]

- p. Notification of Compliance Status: The Permittee must submit a Notification of Compliance Status that meets the requirements of 40 CFR 63.9(h)(2)(ii) before the close of business on the 60th day following the completion of the final required performance test and/or other initial compliance demonstration. The Notification of Compliance Status report must contain the following information, as applicable:
 - i. A description of the affected source(s) including identification of which subcategory the source is in, the capacity of the source, a description of the add-on controls used on the source description of the fuel(s) burned, and justification for the fuel(s) burned during the performance test.
 - ii. Summary of the results of all performance tests and calculations conducted to demonstrate initial compliance.
 - iii. A certification signed by the Responsible Official that the facility has met all applicable emission limits and work practice standards.
- q. Semiannual Summary Report: The Permittee shall submit a summary report by January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The first summary report shall be required on **ENTER DATE**. The report shall include the following:

- i. Company name and address;
 - ii. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report;
 - iii. Date of report and beginning and ending dates of the reporting period;
 - iv. A summary of the results of the annual performance tests;
 - v. Signed statement indicating that no new types of fuel were fired in the affected sources.
- The Permittee shall report the results of performance test within 60 days after the completion of the performance tests or fuel analyses. This report should also verify that the operating limits for the affected sources have not changed or provide documentation of revised operating parameters.

B. No. 2 fuel oil/natural gas-fired (95.0 million Btu per hour maximum heat input capacity, ID No. A-HP-1700-05, NSPS) with associated flue gas re-circulation system. This boiler is located at the Main Steam Plant.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.18 lbs/million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
Visible emissions	20 percent opacity	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, or natural gas that are discharged from boiler (**ID No. A-HP-1700-05**) into the atmosphere shall not exceed 0.18 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition B. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting required for particulate emissions when burning No. 2 fuel oil or natural gas in this boiler.

2. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc

Monitoring/Recordkeeping/Reporting

- a. The Permittee shall record and maintain records of the amounts of each fuel burned during each month. The Permittee shall submit a summary report of the fuel records by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the monthly fuel records are not recorded and maintained.

3. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc - SULFUR DIOXIDE EMISSIONS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in boiler (ID No. A-HP-1700-05) shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:
Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR § 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel burned during each month.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **WRITING** of the following: a summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, submitted within 30 days after each semi-annual period, on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
Distillate Oil - Fuel supplier certification shall include the following information:
 - i. the name of the oil supplier;
 - ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c; and
 - iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi-annual period.
- f. All instances of deviations from the requirements of this permit must be clearly identified. Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, Subpart Dc sulfur dioxide emissions if monitoring and recordkeeping are not maintained.

4. 15A NCAC 2D .0524, 40 CFR Part 60, Subpart Dc: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boiler (ID No. A-HP-1700-05) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 27 percent opacity. [15A NCAC 2D .0524, Subpart Dc]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition B. 4. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, Subpart Dc.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil or natural gas in this boiler.

C. Two No. 2 fuel oil/natural gas-fired boilers (50.0 million Btu per hour heat input capacity each, ID Nos. C-CG-650-83B and C-CG-650-84B, NSPS). These boilers are located at Camp Geiger.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.17 pounds per million Btu heat input each	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
	Less than 56 tons per year	15A NCAC 2D .0530 15A NCAC 2Q .0317 PSD Avoidance
Visible emissions	20 percent opacity each	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, or natural gas that are discharged from each boiler into the atmosphere shall not exceed **0.17 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition C. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc – PARTICULATE EMISSIONS

Monitoring/Recordkeeping/Reporting

- c. The Permittee shall record and maintain records of the amounts of each fuel burned during each month. The Permittee shall submit a summary report of the fuel records by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the monthly fuel records are not recorded and maintained.

2. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc - SULFUR DIOXIDE EMISSIONS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in boilers (ID Nos. C-CG-650-83B and C-CG-650-84B) shall not exceed **0.5 percent by weight**.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:
Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR § 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the

EPA, the Permittee shall record and maintain records of the amounts of each fuel burned during each month.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **WRITING** of the following: The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following: Distillate Oil - Fuel supplier certification shall include the following information:
 - i. the name of the oil supplier;
 - ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c; and
 - iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi-annual period.
- f. All instances of deviations from the requirements of this permit must be clearly identified. Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, Subpart Dc sulfur dioxide emissions if monitoring and recordkeeping are not maintained.

3. 15A NCAC 2D .0524, 40 CFR Part 60, Subpart Dc: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boilers (ID Nos. C-CG-650-83B and C-CG-650-84B) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 27 percent opacity. [15A NCAC 2D .0524, Subpart Dc]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition C. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, Subpart Dc.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil or natural gas in this boiler.

4. 15A NCAC 2Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION – SULFUR DIOXIDE

- a. In order to avoid applicability of 15A NCAC 2D .0530 (g) for major sources and major modifications, boilers (ID Nos. C-CG-650-83B and C-CG-650-84B) shall discharge into the atmosphere less than **56 tons of sulfur dioxide total**, per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501 (c)(4)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Condition C. 4. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The use of No. 2 fuel in boilers (ID Nos. C-CG-650-83B and C-CG-650-84B) shall be limited to less than **1,587,589.51 gallons per year** such that sulfur dioxide emissions shall not exceed 56 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a logbook (written or in electronic format), according to the following formula:

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding

six-month period between January and June. The report shall contain the following:

- i. The monthly sulfur dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and
- ii. The total monthly quantities of No. 2 fuel oil and natural gas consumed for the previous 17 months.

D. One No. 2 fuel oil/natural gas-fired boiler (31.6 million Btu per hour maximum Btu per hour heat input capacity, ID No. C-CG-650-85, NSPS). This boiler is located at Camp Geiger.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.18 lbs per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent sulfur by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
Visible emissions	20 percent opacity	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
HAPs	Best Combustion Practices <i>See Section 2.2 D</i>	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil or natural gas that are discharged from boiler (ID No. ID No. C-CG-650-85) into the atmosphere shall not exceed 0.18 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition D. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions when firing No. 2 fuel oil or natural gas in this boiler.

2. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc

Monitoring/Recordkeeping/Reporting

- a. The Permittee shall record and maintain records of the amounts of each fuel burned during each month. The Permittee shall submit a summary report of the fuel records by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the monthly fuel records are not recorded and maintained.

3. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc - SULFUR DIOXIDE EMISSIONS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in any boiler shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:

Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR § 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel burned during each month. Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if monitoring, recordkeeping, and reporting requirements are not performed.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **WRITING** of the following: a summary report , acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, submitted within 30 days after each semi-annual period, on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
Distillate Oil - Fuel supplier certification shall include the following information:
- i. the name of the oil supplier;
 - ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c; and
 - iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi-annual period.
- All instances of deviations from the requirements of this permit must be clearly identified.

- f. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 2D .0524, 40 CFR PART 60, SUBPART Dc: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boiler (ID No. C-CG-650-85) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 27 percent opacity. [15A NCAC 2D .0521(c)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition D. 4. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil or natural gas in this boiler.

- E. **One No. 2 fuel oil-fired, “water tube design”, replacement boiler, (26.0 million Btu per hour heat input capacity, ID No. B-BB-9-53B, NSPS) and one No. 2 fuel oil-fired boiler (18.4 million Btu per hour heat input capacity, ID No. B-BB-9-55, NSPS) located in the Court House Bay Area.**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.17 pounds per million Btu heat input (for B-BB-9-53B) 0.19 pounds per million Btu heat input (for B-BB-9-55)	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent sulfur by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
	Less than 46.29 tons per year (for B-BB-9-53B only)	15A NCAC 2Q .0317 (15A NCAC 2D .0530) PSD Avoidance
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil that are discharged from these sources into the atmosphere shall not exceed **0.17 pounds per million Btu heat input** for B-BB-9-53B) and **0.19 pounds per million Btu heat input** (for B-BB-9-55). [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance General Condition JJ. If the results of this test are above the limit given in Condition E. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f), 40 CFR Part 60, Subpart Dc]

- c. The Permittee shall record and maintain records of the amounts of each fuel burned during each month. The Permittee shall submit a summary report of the fuel records by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc - SULFUR DIOXIDE EMISSIONS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in any boiler shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:
Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR § 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel burned during each month.
Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if monitoring, recordkeeping, and reporting requirements are not performed.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **WRITING** of the following: a summary report , acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, submitted within 30 days after each semi-annual period, on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
Distillate Oil - Fuel supplier certification shall include the following information:
 - i. the name of the oil supplier;
 - ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c; and
 - iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi-annual period.All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 2D .0521: VISIBLE EMISSIONS

- a. Visible emissions from boilers (ID Nos. B-BB-9-53B and B-BB-9-55) shall not be more than **20 percent opacity** each when averaged over a six-minute period except that six-minute periods averaging more than 87 percent opacity may occur not more than once in any hour nor more than four times per in a 24-hour period.

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ. If the results of this test are above the limit given in Condition E. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- a. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil in this boiler.

4. 15A NCAC 2Q .0317 AVOIDANCE CONDITIONS for 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION – SULFUR DIOXIDE

- a. In order to avoid applicability of 15A NCAC 2D .0530 (g) for major sources and major modifications, boiler (ID No. B-BB-9-53B) shall discharge into the atmosphere less than **46.29 tons of sulfur dioxide total**, per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501 (c)(4)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Condition E. 4. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The use of No. 2 fuel in boiler (ID No. B-BB-9-53B) shall be limited to less than **1,303,944 gallons per year** such that sulfur dioxide emissions shall not exceed 46.29 tons for any consecutive 12-month period. Calculations shall be made monthly and recorded in a logbook (written or in electronic format), according to the following formula:

Reporting [15A NCAC 2Q .0508(f)]

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly sulfur dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and
 - ii. The total monthly quantities of No. 2 fuel oil and natural gas consumed for the previous 17 months.

F. One No. 2 fuel oil-fired boiler (25.1 million Btu heat input capacity, ID No. B-BB-9-54) located in the Court House Bay Area.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.20 pounds per million Btu heat input for boiler B-BB-9-54	15A NCAC 2D .0503
Sulfur dioxide	2.3 lbs per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, that are discharged from boiler (ID No. B-BB-9-54) into the atmosphere shall not exceed **0.20 pounds per million Btu heat input**. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Section 2.1 F. 1. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil in this boiler.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from boiler (ID No. B-BB-9-54) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition F. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil in this boiler.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boiler (ID No. B-BB-9-54) shall not be more than 20 percent opacity each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition F. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the combustion of No. 2 fuel oil in this boiler.

G. Two No. 2 fuel oil-fired replacement boilers (10.5 million Btu heat input capacity each, ID Nos. C-RR-15-46B and C-RR-15-47B, NSPS Subpart Dc). These boilers are located at the Rifle Range.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.20 lbs per million Btu heat input each	15A NCAC 2D .0503
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
Sulfur dioxide	0.5 percent by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, that are discharged from boilers (C-RR-15-46B and C-RR-15-47B) into the atmosphere shall not exceed 0.20 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition G. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil in any boiler.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boilers (C-RR-15-46B and C-RR-15-47B) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition G. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the combustion of No. 2 fuel oil in this boiler.

3. 15A NCAC 2D .0524: NSPS 40 CFR PART 60 SUBPART Dc (For new replacement boilers only, 10.5 million Btu heat input)

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, , recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in the boiler shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:
Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR

☞ 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR ☞ 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel fired during **each month**. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR ☞ 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **writing** of the following: a summary report , acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate or residual fuel oil fired, by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June as follows:
Distillate Oil - Fuel supplier certification shall include the following information:
 - i. the name of the oil supplier;
 - ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR ☞ 60.41c; and
 - iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi annual period.
- f. All instances of deviations from the requirements of this permit must be clearly identified.

H. Three No. 2 fuel oil/natural gas-fired boilers (29.94 million Btu heat input capacity each, ID Nos. A-MP-625-72, A-MP-625-73, and A-MP-625-74) located at Montford Point.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.19 lbs per million Btu heat input each	15A NCAC 2D .0503
Sulfur dioxide	2.3 lbs per million Btu heat input each boiler	15A NCAC 2D .0516
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil or natural gas that are discharged from boilers (ID Nos. A-MP-625-72, A-MP-625-73, and A-MP-625-74) into the atmosphere shall not exceed 0.19 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition H. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the combustion of No. 2 fuel oil or natural gas in any boiler.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from boilers (ID Nos. A-MP-625-72, A-MP-625-73, and A-MP-625-74) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4)

and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition H. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- b. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the combustion of No. 2 fuel oil or natural gas in any boiler.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boilers (ID Nos. A-MP-625-72, A-MP-625-73, and A-MP-625-74) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition H. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the combustion of No. 2 fuel oil or natural gas in any boiler.

I. Three No. 2 fuel oil/JP-5/JP-8/natural gas-fired boilers (48.0 million Btu per hour Btu per hour heat input capacity, ID No. C-AS-4151-16, C-AS-4151-17A, and C-AS-4151-18, NSPS). These boilers are located at the Air Station.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.18 lbs/million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	0.5 percent by weight	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
Visible emissions	20 percent opacity	15A NCAC 2D .0524 40 CFR Part 60, Subpart Dc
HAPs	Best Combustion Practices <i>See Section 2.2 D</i>	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil, JP-5 fuel, JP-8 fuel, and/or natural gas that are discharged from boilers (ID No. C-AS-4151-16, C-AS-4151-17A, and C-AS-4151-18) into the atmosphere shall not exceed 0.18 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition I. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions when firing No. 2 fuel oil in any boiler.

2. 15A NCAC 2D .0524: 40 CFR PART 60, SUBPART Dc

Monitoring/Recordkeeping/Reporting

- a. The Permittee shall record and maintain records of the amounts of each fuel burned during each month. The Permittee shall submit a summary report of the fuel records by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the monthly fuel records are not recorded and maintained.

3. 15A NCAC 2D .0524, 40 CFR PART 60, SUBPART Dc: SULFUR DIOXIDE EMISSIONS

- a. The Permittee shall comply with all applicable provisions, including the notification, testing, reporting, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions." [15A NCAC 2D .0524]

Emission Limitations [15A NCAC 2D .0524]

- b. The maximum sulfur content of any fuel oil received and burned in any boiler shall not exceed 0.5 percent by weight.

Monitoring [15A NCAC 2Q .0508(f)]

- c. Sulfur dioxide emissions shall be monitored as follows:
Distillate Oil - Fuel supplier certification shall be used to demonstrate compliance as described under 40 CFR § 60.46c(e).

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. In addition to any other recordkeeping required by 40 CFR § 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel burned during each month.

Reporting [15A NCAC 2Q .0508(f)]

- e. In addition to any other reporting required by 40 CFR § 60.48c or notification requirements to the EPA, the Permittee is required to **NOTIFY** the DAQ in **WRITING** of the following: a summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, submitted within 30 days after each semi-annual period, on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
Distillate Oil - Fuel supplier certification shall include the following information:
i. the name of the oil supplier;
ii. a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR § 60.41c; and
iii. a certified statement signed by the owner or operator of an affected facility that the records of fuel supplier certification submitted represents all of the fuel fired during the semi-annual period.
- f. All instances of deviations from the requirements of this permit must be clearly identified.

4. 15A NCAC 2D .0524, 40 CFR PART 60, SUBPART Dc: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from boiler (ID No. C-AS-4151-16, C-AS-4151-17A, and C-AS-4151-18) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 27 percent opacity. [15A NCAC 2D .0524, Subpart Dc]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition I. 4. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, Subpart Dc.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting for visible emissions is required when firing No. 2 fuel oil, JP-5 fuel, JP-8 fuel, or natural gas in any boiler.

5. Additional Requirements for Virgin Oil/Used Oil

- a. Virgin JP-5 or JP-8 shall meet the distillate specifications as outlined in ASTM D396, as well as the following: If “virgin oil” requirements are met, a composite sulfur calculation shall be made based on the JP-5 or JP-8 analysis, and the sulfur content currently in the No. 2 fuel oil tank. If the composite sulfur content is less than or equal to 0.5% then the transfer to the distillate tank may be made. If the composite sulfur content is greater than 0.5%, then the JP-5 or JP-8 cannot be transferred and must be stored until it can be added to the tank with a less than 0.5% sulfur content.
- b. Used JP-5, or JP-8 that is fired in the boilers (ID No. C-AS-4151-16, C-AS-4151-17A, and C-AS-4151-18) shall be tested for conformance with the North Carolina Division of Environmental Management, Unadulterated Fossil Fuel Criteria prior to firing. Each used oil storage vessel that will be the final storage container prior to transfer to a boiler fuel supply tank shall be certified through testing for conformance with the fuel criteria prior to such transfer. The Permittee shall be responsible for the appropriate and accurate analytical testing of the used oil that is to be combusted in the boilers as per the criteria specified in 5. b. iv. below, and for the submittal of the results of that testing to the Regional Supervisor, Division of Environmental Management in accordance with the following:
 - i. three samples total shall be taken from each used oil storage vessel. The three samples shall be taken one each from the top, middle, and bottom of the stored volume in the storage vessel;
 - ii. the three samples (representing no more than 30,000 gallons of used oil, and representing no more than one storage vessel) shall be composited and submitted for analytical testing;
 - iii. after sampling is conducted, the used oil storage vessel may not receive any additional materials until the test results are obtained for that vessel;
 - iv. each composite sample shall conform to the following criteria before the represented storage vessel may be considered certified for discharge to a boiler fuel supply tank:

Constituent/Property	Allowable Level
Arsenic	1 ppm maximum
Cadmium	2 ppm maximum
Chromium	5 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	100° F minimum
Sulfur	1% maximum
Ash	1% maximum

- v. Any deviation from this regime shall be reported to the Regional Supervisor, Division of Environmental Management, immediately. A summary of the analytical results shall be compiled monthly and the Permittee is responsible for the submittal of that data on a quarterly basis as described above.
- c. Monitoring/Recordkeeping - The Permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in this Permit for a minimum of two (2) years from the date of recording.

J. RESERVED

K. Two No. 2 fuel oil/natural gas-fired boilers (14.645 million Btu per hour maximum heat input capacity each, ID Nos. A-NH-100-01 and A-NH-100-02) located at the Naval Hospital.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.20 lbs per million Btu heat input each boiler	15A NCAC 2D .0503
Sulfur dioxide	2.3 lbs per million Btu heat input each	15A NCAC 2D .0516
	Less than 250 tons per year	15A NCAC 2D .0530 PSD Avoidance
Visible emissions	20 percent opacity each boiler	15A NCAC 2D .0521
HAPs	Best Combustion Practices See Section 2.2 D	15A NCAC 2D .1109 [CAA § 112(j)]

1. 15A NCAC 2D .0503: PARTICULATE EMISSIONS FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

- a. Emissions of particulate matter from the combustion of No. 2 fuel oil or natural gas that are discharged from boilers (ID Nos. A-NH-100-01 and A-NH-100-02) into the atmosphere shall not exceed 0.20 pounds per million Btu heat input. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(3) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition K. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for particulate emissions from the firing of No. 2 fuel oil or natural gas in any boiler.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from boilers (ID Nos. A-NH-100-01 and A-NH-100-02) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0516]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Condition K. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil or natural gas.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from each boiler (ID Nos. A-NH-100-01 and A-NH-100-02) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition K. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of No. 2 or natural gas in any boiler.

4. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION - Sulfur Dioxide

- a. In order to avoid applicability of 15A NCAC 2D .0530(g) for major sources and modifications, boilers ((ID Nos. A-NH-100-01 and A-NH-100-02), shall discharge into the atmosphere less than 250 tons of sulfur dioxide per consecutive 12-month period.

Testing [15A NCAC 2Q .0501 (c)(4)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition K. 4. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. Recordkeeping is not required for the boilers (ID Nos. A-NH-100-01 and A-NH-100-02), heat input rate 14.645 each) PSD Avoidance Condition while burning natural gas or No. 2 fuel oil. Fuels which contain more sulfur than No. 2 fuel oil (maximum sulfur content 1% by weight) shall not be combusted in either boiler without modification of this permit to include appropriate limitations, monitoring, recordkeeping and reporting requirements to assure compliance with the above annual limit.

L. One aboveground, vertical, fixed roof gasoline storage tank (60,000 gallon capacity, ID No. A-HP-961-10) located in the Fuel Storage Area.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Work practice standards	15A NCAC 2D .0925
Volatile organic compounds	Vapor balance system and proper maintenance of system components	15A NCAC 2D .0926

1. 15A NCAC 2D .0925: PETROLEUM LIQUID STORAGE IN FIXED ROOF TANKS

This regulation applies to all fixed roof storage vessels with capacities greater than 39,000 gallons containing volatile petroleum liquids whose true vapor pressure is greater than 1.52 psia.

- a. The owner or operator of any fixed roof storage vessel subject to this Regulation shall not use the storage vessel unless:
 - i. Each storage vessel has been retrofitted with an internal floating roof equipped with a closure seal, or seals, to close the space between the roof edge and tank wall; [15A NCAC 2D .0925(d)(1)]
 - ii. All openings, except stub drains are equipped with covers, lids, or seals such that:
 - (A) The cover, lid, or seal is in the closed position at all times except when in actual use;
 - (B) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports;
 - (C) Rim vents, if provided, are set to open when the roof is being floated off the roof leg supports or at the manufacturer’s recommended setting; and [15A NCAC 2D .0925(d)(3)]
- b. The storage vessel is maintained such that there are no visible holes, tears, or other openings in the seal or any seal fabric or materials. [15A NCAC 2D .0925(d)(2)]

Monitoring [15A NCAC 2Q .0508(f)]

- c. Inspection and maintenance shall be performed as follows:
 - i. Routine visual inspections shall be conducted through roof hatches once per month [15A NCAC 2D .0925(d)(4)]; and
 - ii. A complete inspection of the floating roof and seal shall be conducted whenever the tank is emptied for maintenance, shell inspection, cleaning, or for other non-operational reasons or whenever excessive vapor leakage is observed. [15A NCAC 2D .0925(d)(5)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0925 if the tanks are not inspected

and maintained.

Recordkeeping [15A NCAC 2Q .0508(f) and 15A NCAC 2D .0903]

- d. The Permittee shall maintain a log book (written or electronic format) of the following records:
 - i. Reports of the results of the required inspections [15A NCAC 2D .0925(d)(6)];
 - ii. The average monthly storage temperature, and true vapor pressures of petroleum liquids stored [15A NCAC 2D .0925(d)(6)], and
 - iii. The throughput quantities and types of petroleum liquids for each storage vessel. [15A NCAC 2D .0925(d)(6)]

Reporting 15A [NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the monitoring and recordkeeping activities by January 30 and July 30 of each calendar year for the preceding six-month period. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0926: BULK GASOLINE PLANTS

- a. The Permittee shall not transfer gasoline to any stationary storage tank (ID No. A-HP-961-10) unless the unloading tank truck or trailer and the receiving stationary storage tank are equipped with an incoming vapor balance system and the receiving stationary storage tank is equipped with a fill line whose discharge opening is flush with the bottom of the tank or if the daily throughput is equal to 4000 gallons of gasoline or more, the unloading stationary storage tank and the receiving tank truck or trailer are equipped with an outgoing vapor balance and the receiving tank truck or trailer is equipped for bottom filling.
- b. The pressure relief valves shall be set at the highest setting on tank trucks or trailers loading or unloading at the facility in accordance with state or local fire codes or the National Fire Prevention Association guidelines.
- c. All gasoline storage tanks shall be painted white or silver at the next scheduled painting or before November 1, 2002.
- d. The Permittee is to follow good work practice standards for the tanks and vapor balance system such as avoiding spillage, checking for leaks, not releasing gasoline to sewers, keeping instrumentation and gauges in good working condition, etc.
- e. Tank trucks and trailers shall be certified leak tight in accordance with 15A NCAC 2D .0932.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- f. Keep readily accessible records of malfunctions detected, corrections made, and any maintenance performed on the tanks and the vapor balance system.

Reporting [15A NCAC 2Q .0508(f)]

- g. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

M. Emergency Generators

ID Number	Source Description	Size of Generator
A-FC-445-01	One diesel-fired emergency generators	750 kW maximum output each
A-FC-443-02	One diesel-fired emergency generators	750 kW maximum output each
A-FC-442-03	One diesel-fired emergency generator	910 kW maximum output
A-FC-540-01	One diesel-fired emergency generator	1500 kW maximum output, each
MACT, Subpart ZZZZ		
A-HP-9-01	One Diesel-fired emergency generator	540 hp capacity
A-HP-54-02	One diesel-fired emergency generator	500 kW maximum output, 671 brake horsepower
MACT, Subpart ZZZZ		
A-HP- 411-01	One diesel-fired emergency generator	500 kW maximum output
MACT, Subpart ZZZZ		
A-HP-590-01	One diesel-fired emergency generator	850 hp maximum output

ID Number	Source Description	Size of Generator
A-HP-1230-02 MACT, Subpart ZZZZ	One diesel-fired emergency generator	1000 kW maximum output, 1341.02 brake horsepower
A-HP-1700-13	No. 2 fuel oil-fired emergency generator	540 hp capacity
A-MP-455-01B, NSPS MACT, Subpart ZZZZ	One diesel-fired emergency generator	1250 kW maximum output, 1676.28 brake horsepower
A-MP-455-02B, NSPS MACT, Subpart ZZZZ	One diesel-fired emergency generator	400 kW maximum output, 536.41 brake horsepower
A-NH-100-10B MACT, Subpart ZZZZ	One diesel-fired emergency generator	1495 brake horse power
A-NH-100-11B MACT, Subpart ZZZZ	One diesel-fired emergency generator	1495 brake horse power
A-NH-100-12B MACT, Subpart ZZZZ	One diesel-fired emergency generator	1495 brake horse power
B-BB-9-04 MACT, Subpart ZZZZ	One diesel-fired emergency generator	500 kW maximum output
C-AS-110-06 MACT, Subpart ZZZZ	One diesel-fired emergency generator	400 kW maximum output
C-RR-3-01	One diesel-fired emergency generator	900 hp maximum output
Emergency Generators to support the MARSOC at the Rifle Range (RR)		
C-RR-400-05 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(1675 HP/1250 kW)
C-RR-405-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(2144 HP/1600 kW)
C-RR-430-04 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(804 HP/600 kW)
C-RR-425-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(1675 HP/1250 kW)
C-RR-440-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(268 HP/200 kW)
C-RR-134-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(536 HP/400 kW)
C-SRR-470-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel-fired Emergency Generator	(536 HP/400 kW)
Generators added in permit revision T23		
A-HP-128-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator located in building 128	674 kWm /600kWe output
A-HP-227-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator located in building 227	900 kWm/810 kWe output
C-AS-4013-01 MACT Subpart ZZZZ, NSPS Subpart III	Diesel Fuel-fired Emergency Generator located in building AS-4013, MCAS New River	1,000 kWe output

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
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Sulfur dioxide	2.3 pounds per million Btu heat input each (Applicable to non NSPS Subpart III affected sources only)	15A NCAC 2D .0516
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
Various	See Condition 2.1.M.5. (as applicable)	15A NCAC 2D .0524
Nitrogen dioxide	Less than 40 tons per year (A-FC-445-01, A-FC-443-02, and A-FC-442-03)	15A NCAC 2Q .0317 of 15A NCAC 2D .0530 PSD Avoidance
Nitrogen dioxide	Less than 40 tons per year (as applicable) See Section 2.2.B.1	15A NCAC 2Q .0317 of 15A NCAC 2D .0530 PSD Avoidance
HAPs	See conditions 2.1.M. 4 and 2.1.M.6	15A NCAC 2D .1111 40 CFR Part 63, Subpart ZZZZ

**1. 15A NCAC 2D .0516 “Sulfur Dioxide Emissions from Combustion Sources”
(Applicable to non NSPS Subpart III affected sources only)**

- a. Emissions of sulfur dioxide from each emergency generator shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Condition M. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of diesel fuel any emergency generator.

2. 15A NCAC 2D .0521 "Control Of Visible Emissions”

- a. Visible emissions from each of these generators shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition M. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of diesel fuel in any generator.

3. 15A NCAC 2D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION -----(NO_x)-----

- a. In order to avoid applicability of 15A NCAC 2D .0530 (g) for major sources and major modifications, emergency generators (**ID Nos. A-FC-445-01, A-FC-443-02, and A-FC-442-03**) shall discharge into the atmosphere less than **40 tons of nitrogen dioxide** total, per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501 (c)(4)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ located in Section 3 of this permit. If the results of this test are above the limit given in

Condition M. 3. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The Permittee shall keep monthly records of the hours of operation in a logbook (written or in electronic format). The hours of operation of emergency generators (ID Nos. A-FC-445-01, A-FC-443-02, and A-FC-442-03) shall not exceed 1160 hours per year total. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly hours of operation are not kept.

Reporting [15A NCAC 2Q .0508(f)]

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
 - i. The monthly nitrogen dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - ii. The total monthly hours of operation for all three generators for the previous 17 months;

4. 15A NCAC 2D .1111, 40 CFR Part 63, Subpart ZZZZ “National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines

Table 2.1.M.4

Emission Source	Source Description	Control Device	Control Device Description
A-FC-540-01	Diesel-fired emergency generator (1,500 kW)	N/A	N/A
A-HP-411-01	Diesel-fired emergency generator (500 kW)	N/A	N/A
B-BB-9-04	Diesel-fired emergency generator (500 kW)	N/A	N/A
C-AS-110-06	One diesel-fired emergency generator (400 kW)	N/A	N/A
A-HP-1230-02	One diesel-fired emergency generator (1000 kW, 1341.02 brake horsepower)	N/A	N/A
A-HP-54-02	Diesel-fired emergency generator (500 kW, 671 brake horsepower)	N/A	N/A
A-NH-100-10B	Diesel-fired emergency generator (1495 brake horsepower), located at the Naval Hospital	N/A	N/A
A-NH-100-11B	Diesel-fired emergency generator (1495 brake horsepower), located at the Naval Hospital	N/A	N/A
A-NH-100-12B	Diesel-fired emergency generator (1495 brake horsepower), located at the Naval Hospital	N/A	N/A
A-MP-455-01B	Diesel-fired emergency generator (1250 kW, 1676.28 brake horsepower)	N/A	N/A
A-MP-455-02B	Diesel-fired emergency generator (400 kW, 536.41 brake horsepower)	N/A	N/A

Applicability [40 CFR 63.2231]

- a. For the emission sources in Table 2.1.M.4, the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ . “National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines.”

- b. **General Provisions** [40 CFR §63.6665]:

The Permittee shall comply with the requirements of 40 CFR part 63 Subpart A “General Provisions,” according to the applicability of Subpart A to such sources, as identified in Table No. 8 in Subpart ZZZZ, “Applicability Of General Provisions to Subpart ZZZZ”.

c. **Compliance/Notification Procedures** [40 CFR §63.6645]

Stationary RICE that are **emergency generators** are subject to limited requirements of Subpart ZZZZ and do not have to meet the requirements of Subpart ZZZZ and of subpart A of this part, except for the initial notification requirements. Notification should include the following information:

The owner or operator of an affected source that has an initial startup before the effective date of a relevant standard under this part shall notify the Administrator in writing that the source is subject to the relevant standard. The notification, which shall be submitted not later than 120 calendar days after startup of the emergency generator and shall provide the following:

- i. The name and address of the owner or operator;
- ii. The address (i.e., physical location) of the affected source;
- iii. An identification of the relevant standard, or other requirement, that is the basis of the notification and the source’s compliance date;
- iv. A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted;
- v. A statement of whether the affected sources is a major source or an area source.
- vi. A statement that the generators have no additional requirements and explain the basis for the exclusion (for example, that the units operate exclusively as emergency stationary RICE).

d. **Recordkeeping Requirement For Applicability Determination** [40 CFR §63.10(b)(3)]

The applicability determination for exclusion of the generators from the requirements of 40 CFR Part 63, Subpart ZZZZ and Subpart A of this part, shall be maintained on site for a period of 5 years after the determination, or until the source changes its operations to become an affected source, whichever comes first. The analyses, or other information, that demonstrates the exemption from the requirements of Subpart ZZZZ and part A of this subpart, shall be signed by the person making the determination.

e. **Reporting Requirement:**

- i. The Permittee shall comply with all applicable provisions, including Notification Requirements per 40 CFR §63.9.
- ii. The Permittee shall submit the initial notification to the following per 40 CFR §63.9(a)(4)(ii) and 15A NCAC 2Q .0508(f):
 - (A) Division of Air Quality, Permitting Section
 - (B) Division of Air Quality, Regional Office Supervisor, and
 - (C) EPA-Region IV

5. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

- a. The Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart III, including Subpart A "General Provisions" for the following sources:

Emission Source	Source Description	Control Device	Control Device Description
A-MP-455-01B	Diesel-fired emergency generator (1250 kW, 1676.28 brake horsepower)	N/A	N/A
A-MP-455-02B	Diesel-fired emergency generator (400 kW, 536.41 brake horsepower)	N/A	N/A

Emission Source	Source Description	Control Device	Control Device Description
C-RR-400-05	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-405-01	Diesel-fired Emergency Generator (2144 HP/1600 kW)	N/A	N/A
C-RR-430-04	Diesel-fired Emergency Generator (804 HP/600 kW)	N/A	N/A
C-RR-425-01	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-440-01	Diesel-fired Emergency Generator (268 HP/200 kW)	N/A	N/A
C-RR-134-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
C-SRR-470-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
Generators added to permit revision no. T23			
A-HP-128-01	Diesel Fuel-fired Emergency Generator (600 kWe output) located in building 128	N/A	N/A
A-HP-227-01	Diesel Fuel-fired Emergency Generator (810 kWe output) located in building 227	N/A	N/A
C-AS-4013-01	Diesel Fuel-fired Emergency Generator (1,000 kWe output) located in building AS-4013, MCAS New River	N/A	N/A

Emission Standards

- b. The Permittee shall comply with the emission standards for new non-road CI engines in 40CFR 60.4202, for all pollutants, for the same model year and maximum engine power for these sources. [40CFR 60.4205(b)]
- c. The Permittee shall use diesel fuel with a sulfur content of less than 500 ppm in the emergency generators beginning October 1, 2007. The Permittee shall use diesel fuel with a sulfur content of less than 15 ppm in the emergency generator (ID No. M-EG-3) beginning October 1, 2010. [40CFR 60.4207(a) and (b), and 40CFR 80.510(a) and (b)]

Testing [15A NCAC 2D .2601]

- d. If an emission testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in conditions b. and c. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

Monitoring [15A NCAC 2Q .0508(f)]

- e. The emergency generators shall be equipped with a non-resettable hour meter prior to startup. [40CFR 60.4209(a)]
- f. The Permittee shall operate and maintain the emergency generators in accordance with the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. The Permittee may only change engine settings that are permitted by the manufacturer. The Permittee shall also meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable. [40CFR 60.4206 and 60.4211(a)]
- g. The Permittee shall purchase the emergency generators certified to the emission standards in 40 CFR 60.4205(b). The generators shall be installed and configured according to the manufacturer's specifications. [40CFR 60.4211(c)]

- h. The Permittee may operate the emergency generators for maintenance checks and readiness testing for up to 100 hours per year provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Operation during an actual emergency shall not be subject to a limit on hours. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Because the Permittee is required to comply with emission standards under 40CFR 60.4205 for the emergency generators and not under 40CFR 60.4204, any operation other than emergency operation, and maintenance and testing as allowed in 40 CFR 60.4211 is prohibited. [40CFR 60.4211(e)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the requirements in conditions e. through h. are not met.

Recordkeeping [15A NCAC 2Q .0508(f)]

- i. To assure compliance, the Permittee shall perform inspections and maintenance on the emergency generators as recommended by the manufacturer per 40CFR60.4206 and 40CFR60.4211(a). The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the emergency generator; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- j. The Permittee shall submit an initial notification within 120 days of initial construction of each source. The notification shall contain the following information:
- (i) Name and address of the owner or operator;
 - (ii) The address of the affected source;
 - (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
 - (iv) Emission control equipment;
 - (v) Fuel used; and
 - (vi) documentation demonstrating the emergency generator is certified to the emission standards in 40 CFR 60.4205(b).
- k. For sources, **A-MP-455-01B, A-MP-455-02B, A-HP-128-01, A-HP-227-01 and C-AS-4013-01**, no initial notification under §60.7 is required for an emergency use CI engine in an emergency generator. [40CFR 60.4214(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the notification requirement in condition j. is not met.

- l. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit shall be clearly identified.

6. 15A NCAC 2D .1111, 40 CFR Part 63, Subpart ZZZZ "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines (RICE)

Applicability [40 CFR 63.2231]

- a. The Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ . "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines." for the following sources:

Emission Source	Source Description	Control Device	Control Device Description
C-RR-400-05	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-405-01	Diesel-fired Emergency Generator (2144 HP/1600 kW)	N/A	N/A
C-RR-430-04	Diesel-fired Emergency Generator (804 HP/600 kW)	N/A	N/A
C-RR-425-01	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-440-01	Diesel-fired Emergency Generator (268 HP/200 kW)	N/A	N/A
C-RR-134-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
C-SRR-470-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
Generators added to permit revision no. T23			
A-HP-128-01	Diesel Fuel-fired Emergency Generator (600 kW output) located in building 128	N/A	N/A
A-HP-227-01	Diesel Fuel-fired Emergency Generator (810 kW output) located in building 227	N/A	N/A
C-AS-4013-01	Diesel Fuel-fired Emergency Generator (1,000 kW output) located in building AS-4013, MCAS New River	N/A	N/A

Stationary RICE subject to limited requirements [40 CFR 63.6590(b)]

- b. Pursuant to 40 CFR 63.6590(b)(1)(i), these sources, **excluding ID No. C-RR-440-01**, do not have to meet the requirements of 40CFR 63 Subpart ZZZZ and Subpart A except for the initial notification requirements of 40 CFR 63.6645(f).

Stationary RICE subject to Regulations under 40 CFR Part 60 [40 CFR 63.6590(c)]

- c. Pursuant to 40 CFR 63.6590(c), **emergency generator (ID No. C-RR-440-01)** must meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR part 60 subpart IIII. No further requirements apply for this engine under 40 CFR 63 Subpart ZZZZ and Subpart A.

If the requirements in condition c are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111.

Notification Requirements [15 A NCAC 2Q.0508(f)]

- d. Pursuant to 40 CFR 63.6645(f), the Permittee shall submit an initial notification for each source, excluding ID No. C-RR-440-01, in accordance with 40 CFR 63.6590(b), no later than 120 calendar days after construction of each source. The notification shall include the following information:
- (i) The name and address of the owner or operator;
 - (ii) The address (i.e., physical location) of the affected source;
 - (iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date;
 - (iv) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted;
 - (v) A statement of whether the affected source is a major source or an area source; and
 - (vi) a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site

rating of more than 500 brake HP located at a major source of HAP emissions).

- e. No notifications are required for the emergency generator (**ID No. C-RR-440-01**).

If the notification requirements in condition d. are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111.

N. Peak shaving/emergency generator (Diesel-fired, ID No. A-HP-45-01) located at Building 45.

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 lbs per million Btu heat input each	15A NCAC 2D .0516
Nitrogen dioxide	Less than 40 tons per year	15A NCAC 2Q .0317 of 15A NCAC 2D .0530 PSD Avoidance
Visible emissions	20 percent opacity each boiler	15A NCAC 2D .0521

1. 15A NCAC 2D .0516 “Sulfur Dioxide Emissions from Combustion Sources”

- a. Emissions of sulfur dioxide from peak shaver/emergency generator (ID No. A-HP-45-01) shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3. If the results of this test are above the limit given in Condition N. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of No. 2 fuel oil this peak shaver/emergency generator.

2. 15A NCAC 2D .0521 "Control Of Visible Emissions”

- a. Visible emissions from peak shaver/emergency generator (ID No. A-HP-45-01) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of this permit. If the results of this test are above the limit given in Condition N. 2. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of No. 2 fuel oil in this generator.

3. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION -----(NOx)-----

- a. In order to avoid applicability of 15A NCAC 2D .0530 (g) for major sources and major modifications, peak shaving generator (ID Nos. A-HP-45-01) shall discharge into the atmosphere less than **40 tons of nitrogen dioxide total**, per consecutive 12-month period. [15A NCAC 2D .0530]

Testing [15A NCAC 2Q .0501 (c)(4)]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ located in Section 3 of this permit. If the results of this test are above the limit given in Condition N. 3. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

Monitoring/Recordkeeping [15A NCAC 2Q .0508 (f)]

- c. The Permittee shall keep monthly records of the hours of operation in a logbook (written or in electronic format). The hours of operation for peak shaving/emergency generator (ID Nos. A-HP-45-01) shall not exceed 1480 hours per year. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the monthly hours of operation are not kept.

Reporting [15A NCAC 2Q .0508(f)]

- d. The Permittee shall submit a semi-annual summary report, acceptable to the Regional Air Quality Supervisor, of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
- The monthly nitrogen dioxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
 - The monthly hours of operation for this peak shaver/emergency generator for the previous 17 months.

O. Engine test stations/test stands

ID Number	Description	Location
A-FC-280-11	Internal combustion engine test station	Field Maintenance Complex
A-FC-280-12	Internal combustion engine test station	Field Maintenance Complex
A-FC-280-13	Internal combustion engine test station	Field Maintenance Complex
A-FC-280-14	Internal combustion engine test station	Field Maintenance Complex
C-AS-531-01	Jet engine test station	Miscellaneous Areas
B-A-72-03	Outboard gasoline engine test stand	Miscellaneous Areas
B-A-134-02	Outboard gasoline engine test stand	Miscellaneous Areas
A-HP-1409-02	Internal combustion engine test station	Miscellaneous Areas
A-MP-107-11	JP8 Fuel-fired Engine Test Stand (150 HP) for teaching purposes only	Miscellaneous Areas
A-MP-107-12	JP8 Fuel-fired Engine Test Stand (425 HP) for teaching purposes only	Miscellaneous Areas
A-FC-365-02	JP8 Fuel-fired Engine Test Stand (300 HP)	Miscellaneous Areas
A-HP-1854-11	JP8 Fuel-fired Engine Test Stand (1500 HP)	Miscellaneous Areas
B-A-A47-05	JP8 Fuel-fired Engine Test Stand (525 HP)	Miscellaneous Areas
A-FC-143-01	Boat Motor Gasoline-fired Engine (not to exceed 125 HP) Test Tank	Miscellaneous Areas
B-A-A69-01	Boat Motor JP8-fired Engine (not to exceed 90 HP) Test Tank	Miscellaneous Areas
C-RR-430-01	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	Rifle Range (RR)
C-RR-430-02	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	Rifle Range (RR)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Nitrogen dioxide	Less than 40 tons per year (ID Nos. C-RR-430-01 and C-RR-430-02) only See Section 2.2.B.1	15A NCAC 2Q .0317 of 15A NCAC 2D .0530 PSD Avoidance

1. 15A NCAC 02D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from this source shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 02D .0516]

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 02D .2601 and General Condition JJ found in Section 3. If the results of this test are above the limit given in condition a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 02Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from testing of internal combustion engines fired by gasoline, diesel fuel, or JP-5 fuel.

P. Paint Spray Booths

ID Number	Description	Location
A- HP-1202-78	One water wash paint spray booth	Base Maintenance Shop, Building 1202, Hadnot Point
C-AS-4146-05	One paint spray booth	Building AS-4146, New River
C-AS-4106-01	One paint spray booth in general painting operations	Building AS-4106, New River
MACT, Subpart GG		
C-AS-4135-01	One water wash-type paint spray booth in a metal parts coating operation	Building AS-4135, New River
C-AS-3900-01 C-AS-3900-02 C-AS-3900-03	One paint hangar (part of corrosion control facility) one corrosion control paint booth (part of corrosion control facility), and one grinding booth (part of corrosion control facility)	
MACT, Subpart GG		
A-HP-1249-03	One paint spray booth in the auto hobby shop,	Building 1249, formerly ES1 from Building 1113
A-HP-1041-01	One dry filter type paint spray booth	
A-FC-286-12	Dry filter type paint spray booths	Field Maintenance Complex
A-FC-286-13	Dry filter type paint spray booths	Field Maintenance Complex
C-AS-518-12	One dry filter paint spray booth	Building AS-518
MACT, Subpart GG		
A-FC-280-10	One dry filter type paint spray booth, located in the Field Maintenance Complex	Field Maintenance Complex
A-FC-286-20	One dry filter type paint booth	Field Maintenance Complex

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	$E = 4.10 \times P^{0.67}$ Where: E = allowable particulate emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity each	15A NCAC 2D .0521
Volatile organic compounds	Work practice standards	15A NCAC 2D .0958
Toxic air pollutants	See Multiple Emissions Section 2.2 B	15A NCAC 2D .1100 State-enforceable only
HAPs	MACT Limits	15A NCAC 2D .1111 40 CFR Part 63, Subpart GG

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2D .0501 (c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Condition P. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. The Permittee shall maintain production records which specify the types of materials and finishes processed and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the paint spray booths shall not be more than 20 percent opacity each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition P. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring [15A NCAC 2Q .0508(f)]

- c. To assure compliance, **once a month**, the Permittee shall observe the emission points of each source (ID Nos. A-HP-1202-78, C-AS-4146-05, C-AS-4135-01, A-HP-1249-03, A-HP-1041-01, A-FC-286-12, A-FC-286-13, A-FC-280-10, A-FC-286-20) for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 P. 2. a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

To assure compliance, **once a month** the Permittee shall observe the pressure drop readings of the gauge on booths (ID Nos. C-AS-4106-01, C-AS-3900-01, C-AS-3900-02, C-AS-3900-03, and C-AS-518-12) and make a record of the reading in a logbook (written or electronic). The system shall not exceed the recommended manufactures operating pressure differential. The Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521 if the booth operates with a pressure differential that exceeds the filter manufacturer's recommendations.

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - (A) the date and time of each action;
 - (B) the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - (C) the results of any corrective actions performed.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit

must be clearly identified.

3. 15A NCAC 2D .0958: WORK PRACTICES FOR SOURCES OF VOLATILE ORGANIC COMPOUNDS

Table 2.1.P.3

ID Number	Description	Location
A- HP-1202-78	One water wash paint spray booth	Base Maintenance Shop, Building 1202, Hadnot Point
C-AS-4146-05	One paint spray booth	Building AS-4146, New River
C-AS-4135-01	One water wash-type paint spray booth in a metal parts coating operation	Building AS-4135, New River
A-HP-1249-03	One paint spray booth in the auto hobby shop,	Building 1249, formerly ES1 from Building 1113
A-HP-1041-01	One dry filter type paint spray booth	
A-FC-286-12	Dry filter type paint spray booths	Field Maintenance Complex
A-FC-286-13	Dry filter type paint spray booths	Field Maintenance Complex
A-FC-280-10	One dry filter type paint spray booth	Field Maintenance Complex
A-FC-286-20	One dry filter type paint booth	Field Maintenance Complex

- a. Pursuant to 15A NCAC 2D .0958, for all the **sources in Table 2.1.P.3** that use volatile organic compounds (VOC) as solvents, carriers, material processing media, or industrial chemical reactants, or in similar uses that mix, blend, or manufacture volatile organic compounds, or emit volatile organic compounds as a product of chemical reactions, and whose emissions of VOC are greater than 15 pounds per day; the Permittee shall:
 - i. store all material, including waste material, containing volatile organic compounds in tanks or in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 - ii. clean up spills of volatile organic compounds as soon as possible following proper safety procedures,
 - iii. store wipe rags containing volatile organic compounds in closed containers,
 - iv. not clean sponges, fabric, wood, paper products, and other absorbent materials with volatile organic compounds,
 - v. transfer solvents containing volatile organic compounds used to clean supply lines and other coating equipment into closable containers and close such containers immediately after each use, or transfer such solvents to closed tanks, or to a treatment facility regulated under section 402 of the Clean Water Act,
 - vi. clean mixing, blending, and manufacturing vats and containers containing volatile organic compounds by adding cleaning solvent and close the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be transferred into a closed container, a closed tank or a treatment facility regulated under section 402 of the Clean Water Act. [15A NCAC 2D .0958(c)]
- b. When cleaning parts with a solvent containing a volatile organic compound, the Permittee shall:
 - i. flush parts in the freeboard area,
take precautions to reduce the pooling of solvent on and in the parts,
 - ii. tilt or rotate parts to drain solvent and allow a minimum of 15 seconds for drying or until all dripping has stopped, whichever is longer,
 - iii. not fill cleaning machines above the fill line,
 - iv. not agitate solvent to the point of causing splashing. [15A NCAC 2D .0958(d)]

Monitoring

- c. To assure compliance with paragraphs (a) and (b) above, the Permittee shall, at a minimum, perform a visual inspection once per month of all operations and processes utilizing volatile organic compounds. The inspections shall be conducted during normal operations. If the required inspections are not conducted, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Recordkeeping

- d. The results of the inspections shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. the date and time of each inspection; and

- ii. the results of each inspection noting whether or not noncompliant conditions were observed. If the required records are not maintained the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0958.

Reporting

- e. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

4. 40 CFR PART 63, SUBPART GG: NATIONAL EMISSION STANDARDS FOR AEROSPACE MANUFACTURING AND REWORK FACILITIES - (When Using Non Specialty Coatings)

Table 2.1.P.4

ID Number	Description	Location
C-AS-4106-01 MACT, Subpart GG	One paint spray booth in general painting operations	Building AS-4106, New River
C-AS-3900-01 C-AS-3900-02 C-AS-3900-03 MACT, Subpart GG	One paint hangar (part of corrosion control facility) one corrosion control paint booth (part or corrosion control facility), and one grinding booth (part of corrosion control facility)	
C-AS-518-12 MACT, Subpart GG	One dry filter paint spray booth	Building AS-518

For the **sources listed in Table 2.1.P.4**, the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111 "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart GG, including Subpart A "General Provisions when using *nonspecialty coatings*." In accordance with 40 CFR 63.745 (g)(4)(ix), flightline and hangars adjacent to to the flightline at Marine Corps Air Station, New River, shall be allowed to paint aerospace parts when not technically feasible to paint in a booth.

Summary of Subpart GG or 40 CFR Part 63

Cleaning Operations:			
Standards	<p>1. Must comply with the following requirements unless the cleaning solvent use is identified in Table 1 below or contains HAP and VOC below the de minimis levels specified in §63.741 (f). [63.744(a)]</p> <p><u>Table 1 [40 CFR §63.744]</u></p> <p>Aqueous-----Cleaning solvents in which water is the primary ingredient greater or equal to 80 percent of cleaning solvent solution as applied must be water). Detergents surfactants, and bioenzyme mixtures and nutrients may be combined with the water along with a variety of additives such as organic solvents (e.g., high boiling point alcohols), builders, saponifiers, inhibitors, emulsifiers, pH buffers, and antifoaming agents. Aqueous solutions must have a flash point greater than 93 °C 200 °F)(as reported by the manufacturer) and the solution must be miscible with water.</p> <p>Hydrocarbon based----Cleaners that are composed of photochemically reactive hydrocarbons and oxygenated hydrocarbons and have a maximum vapor pressure 7 mm Hg at 20 °C (3.75 in. H₂O at 68 °F). These cleaners also contain no HAP.</p> <p>2. Place cleaning solvent-laden cloth, paper, or other absorbent applicators in bags or other closed containers upon completing their use. [63.744(a)(1)]</p> <p>3. Store cleaning solvents except semi-aqueous in closed containers. [63.744(a)(2)]</p>		
Standards	Handwipe		
	<p>1. Except for cleaning of spray gun equipment, all hand wipe cleaning solvent must meet a composition requirement as listed in table 1 (40 CFR §63.744) as listed above, have a composite vapor pressure 45 mm Hg at 20 °C, or meet the 60 percent volume reduction requirements specified in an alternative compliance plan. [63.744(b)]</p> <p>2. Note the list of 13 cleaning operations exempt from composition, vapor pressure, and volume reduction requirements. [63.744(e)]</p>		
	Spray Gun Cleaning		
	<p>1. Use one of the four specified techniques or their equivalent. [63.744(c)]</p> <p>2. For enclosed spray gun cleaners, if leaks are found during the required monthly inspection, repair as soon as practicable, but within 15 days. [63,744(c)(1)(ii)]</p> <p>3. If cleaning solvent solutions that contain HAP and VOC below the de minimis levels are used, those cleaning operations using such solutions are exempt from requirements. [63.744(c)]</p>		
Standards	Flush Cleaning		
	Operating procedures specify emptying used cleaning solvent into enclosed container, collection system, or system with equivalent emission control. [63.744(d)]		
Test Methods and Procedures	Handwipe		
	<p>1. Composition determination using manufacture’s data. [63.750(a)]</p> <p>2. Vapor pressure determination using readily available sources such as MSDS if single component; composite vapor pressure determined by manufacturer’s supplied data or ASTM E 2260-911 and by equation provided for multiple component solvents. [63.750(b)]</p>		
	Spray Gun Cleaning None	Flush Cleaning None	
Monitoring	Handwipe None [63.751(a)]	Spray Gun Cleaning Monthly visual leak inspection	Flush Cleaning None

Summary of Subpart GG or 40 CFR Part 63

Recordkeeping	<p style="text-align: center;">Handwipe</p> <ol style="list-style-type: none"> 1. If complying with composition requirements, the name, data/calculations, and annual volumes. [63.752 (b)(2)] 2. If complying with vapor pressure limit, the name, vapor pressure, data/calculations/tests results, and monthly volumes. [63.752 (b)(4)] 3. For noncompliant cleaning solvents used in exempt operations, the name, monthly volumes by operation, and master list of processes. [63.752(b)(4)]
Reporting	<p style="text-align: center;">Handwipe</p> <ol style="list-style-type: none"> 1. Semi-annual report: Statement certifying compliance by responsible official. [63.753(b)(1)(v)] 2. Statement that noncompliant cleaning solvents used. [63.753(b)(1)(i)] 3. New cleaning solvents and their composite vapor pressure or notification of compliance with composition requirements. [63.753(b)(1)(ii)]
	<p style="text-align: center;">Spray Gun Cleaning</p> <ol style="list-style-type: none"> 1. Semi-annual report: Statement certifying compliance by responsible official. [63.753(b)(1)(v)] 2. Statement that noncompliant spray gun cleaning method used. [63.753(b)(1)(iii)] 3. Leaks from enclosed spray gun cleaners not repaired within 15 days. [63.753(b)(1)(iv)]
Primer and Topcoat Application Operations	
Standards	<p><u>Uncontrolled Primers</u></p> <ol style="list-style-type: none"> 1. Organic HAP and VOC content Limit: 350 grams per liter (g/L)(2.9 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(1-2)] 2. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)] <p><u>Uncontrolled Topcoats (including self-priming tools)</u></p> <ol style="list-style-type: none"> 3. Organic HAP and VOC content limit: 420 g/L (3.5 lb/gal less water for HAP; and less water and exempt solvents for VOC) as applied. [63.745(c)(3-4)] 4. Achieve compliance through: (1) using coatings below content limits, or (2) using monthly volume-weighted averaging to meet content limits. [63.745(e)] <p><u>Controlled Primers and Topcoats (including self-priming tools)</u></p> <ol style="list-style-type: none"> 5. Control system must reduce organic HAP and VOC emissions to the atmosphere 81 percent, using capture and destruction/removal efficiencies. [63.745(d)] <p><u>All Primers and Topcoats</u></p> <ol style="list-style-type: none"> 6. Minimize spills during handling and transfer. [63.745 (b)] 7. Specific application techniques must be used. [63.745(f)(1)] 8. Exemptions from specific application techniques must be used for certain situations. [63.745(f)(3)] 9. All application equipment must be operated according to manufacturer’s specifications, company procedures, or locally specified operating procedures (whichever is most stringent). [63.745(f)(2)] 10. Operating requirements for the application of primers or topcoats that contain inorganic HAP, including control with either particulate filters (see Tables 1 through 4 of 63.745) or waterwash system. Painting operation(s) must be shutdown if operated outside manufacturer’s specified limits. [63.745(g)(1) through (3)] 11. Exemptions from operating requirements for the application of primers or topcoats that contain inorganic HAP, including control with either particulate filters or waterwash system. provided for certain application operations. [63.745(g)(4)]

Summary of Subpart GG or 40 CFR Part 63

Primer and Topcoat Application Operations (Continued)	
Performance Test Periods and Tests	<p><u>Uncontrolled</u></p> <ol style="list-style-type: none"> 1. Performance test period for coatings not averaged: each 24 hour period; for “averaged” coatings each 30-day period. [63.749(d)(1)] <p><u>Controlled</u></p> <ol style="list-style-type: none"> 2. Performance test period for noncarbon adsorber: three 1-hour runs; for carbon adsorber: each rolling material balance period. [63.749(d)(1)] 3. Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(d)(2)]
Tests Methods and Procedures	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> 1. Organic HAP level determination procedures. [63.750(c) and (d)] 2. VOC level determination procedures. [63.750(e) and (f)] 3. Overall control efficiency of carbon adsorber system determined using provided procedures; for other control devices, determine capture efficiency and destruction efficiency. For capture efficiency, use procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)] 4. For alternative application methods, first determine emission levels for initial 30-day period or five aircraft using only HVLP or electrostatic, or a time period specified by the permitting agency. Then use alternative application method for period of time necessary to coat equivalent amount of parts with same coatings. Alternative application method may be used when emissions generated during the test period are less than or equal to the emissions generated during the initial 30-day period or live aircraft. Dried film thickness must be within specification for initial 30-day period or five aircraft as demonstrated under actual production conditions. [63.750(i)] <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> 5. Dry particulate filter certification; use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of §63.745 for existing sources, or Tables 3 and 4 of §63.745 for new sources [63.750 (o)]
Monitoring	<ol style="list-style-type: none"> 1. Carbon adsorbers. [63.751(1)(b) through (7)] 2. Temperature monitoring equipment to be installed, calibrated, maintained, and operated according to manufacturer’s specifications. Use CEMS as an alternative. [63.751(b)(8)] 3. Incinerators. [63.751(b)(9) through (12)] 4. Dry particulate filters and waterwash systems. [63.751(c)] 5. Alternate monitoring method. [63.751(c)]
Recordkeeping	<ol style="list-style-type: none"> 1. Name and VOC content as received and as applied for all primers and topcoats. [63.752(c)(1)] <p><u>Uncontrolled</u></p> <ol style="list-style-type: none"> 2. For “compliant” coatings, organic HAP and VOC contents as applied, data/calculations and test results used to determine HAP/VOC contents (H_i and G_i), and monthly usage. [63.752(c)(2)] 3. For “low-HAP content” primers, annual purchase records, and data/calculations and test results used to determine H_i or HAP/VOC content as applied. [63.752(c)(3)] 4. For “averaged” coatings, monthly volume-weighted average values of HAP/VOC content (H_a and G_a), and data/calculations and test results used to calculate H_a and G_a [63.752(c)(4)]

Summary of Subpart GG or 40 CFR Part 63

Primer and Topcoat Application Operations (Continued)	
Recordkeeping (Continued)	<p><u>Controlled</u></p> <ol style="list-style-type: none"> For incinerations, overall control efficiency test results/data/calculations used in determining the overall control efficiency; and continuous records of incinerator temperature(s). [63.752(c)(5)] For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency. [63.752(c)(6)] <p><u>Inorganic HAP Particulate</u></p> <ol style="list-style-type: none"> Pressure drop across filter or water flow rate through waterwash system once per shift, and acceptable limits. [63.752(d)(1) through (3)]
Reporting	<p><u>Semiannual</u> (six months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> All instances where organic HAP/VOC limits were exceeded. [63.753(c)(1)(i) and (ii)] Control device exceedances (out-of-compliance). [63.753(c)(1)(iii), (iv), and (v)] Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(c)(1)(vi)] Statement certifying compliance. [63.753(c)(1)(vii)] <p><u>Annual</u> (twelve months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> Number of times the pressure drop or water flow rate limits were exceeded. [63.753(c)(2)]
Depainting Operations	
Exemptions	<ol style="list-style-type: none"> Facilities depainting six or less completed aerospace vehicles per calendar year. [63.746(a)] Depainting of parts or units normally removed from the plane for depainting (except wings and stabilizers). [63.746(a)(1)] Aerospace vehicles or components intended for public display, no longer operational, and not easily capable of being moved. [63.746(a)(2)] Depainting of radomes and parts, subassemblies, and assemblies normally removed from the primary aircraft before depainting. [63.746(a)(3)]
Standards	<ol style="list-style-type: none"> Zero organic HAP emissions from chemical strippers or softeners. [63.746(b)(1)] Minimize inorganic HAP emissions when equipment malfunctions. [63.746(b)(2)] Facility (average) allowance for spot stripping and decal removal; 26 gallons of strippers or 190 pounds of HAP per commercial aircraft per year; and 50 gallons of strippers or 365 pounds of HAP per military aircraft per year. [63.746(b)(3)] Follow operating requirements for depainting operations generating airborne inorganic HAP. [63.746(b)(4)] Mechanical and hand sanding are exempt from requirements of §63.746(b)(4). [63.746(b)(5)] Control HAP emissions at 81 percent efficiency for systems installed before effective date (September 1, 1995), and 95 percent efficiency for newer systems. [63.746(c)]

Summary of Subpart GG or 40 CFR Part 63

Depainting Operations (Continued)	
Performance Test Periods and Tests	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> 1. Initial performance test of all control of all control devices is required to demonstrate compliance with overall control efficiency requirement. [63.749(f)(1), (f)(2), and (f)(3)] 2. Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber each rolling material balance period. [63.749(f)(1)] 3. Test period for spot stripping and decal removal usage limits: each calendar year. [63.749(f)(1)] <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> 4. Operating requirements specified in § [63.746(b)(4)], [63.749(g)]
Test Methods and Procedures	<p><u>Organic HAP</u></p> <ol style="list-style-type: none"> 1. Overall control efficiency of carbon adsorber system may be determined using specified procedures and equations 9 through 14; for other control devices, must determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)] 2. Spot stripping and decal removal: Procedures are provided for determining volume of chemical strippers (equation 20) or weight of organic HAP used per aircraft (equation 21). [63.750(j)] <p><u>Inorganic HAP</u></p> <ol style="list-style-type: none"> 3. Dry particulate filter certification: use Method 319 to meet or exceed the efficiency data points in Tables 1 and 2 of §63.745 for existing sources or Tables 3 and 4 of §63.745 for new sources. [63.750(o)]
Monitoring	Continuously monitor the pressure drop across filters, or the water flow rate through the waterwash system and read and record the pressure drop, or the water flow rate for waterwash system, once per shift. [63.751(d)]
Recordkeeping	<ol style="list-style-type: none"> 1. Name and monthly volumes of each chemical stripper used or monthly weight of organic HAP used in chemical strippers. [63.752(e)(1)] 2. For controlled chemical strippers (carbon adsorber), overall control efficiency and length of rolling period and all supporting test results/data/calculations; certification of the accuracy of the device. [63.752(e)(2)] 3. For controlled chemical strippers (other control devices), overall control efficiency and supporting test results/data/calculations. [63.752(e)(3)] 4. List of parts/assemblies normally removed. [63.752(e)(4)] 5. For nonchemical based equipment, name and type, and malfunction information including dates, description, and alternative methods used. [63.752(e)(5)] 6. For spot stripping and decal removal, volume of stripper or weight of organic HAP used, annual number of aircraft stripped, annual average volume or weight per aircraft, and all data/calculations used to calculate volume or weight per aircraft. [63.752(e)(6)] 7. Pressure drop across filter or the visual continuity of the water curtain and water flow rate for waterwash systems, once per shift and include acceptable limits. [63.752(e)(7)]

Summary of Subpart GG or 40 CFR Part 63

<u>Depainting Operations (Continued)</u>	
Reporting	<p><u>Semiannual</u> (6 months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> 24-hour periods where organic HAP were emitted from depainting operations. [63.753(d)(1)(I)] New/reformulated chemical strippers and HAP contents. [63.753(d)(1)(ii),(iii), and (iv)] New nonchemical depainting techniques. [63.753(d)(1)(v)] Malfunction information or nonchemical depainting techniques including dates, description, and alternative methods used. [63.753(d)(1)(vi)] Periods when operation not immediately shut down when the pressure drop or water flow rate was outside limits. [63.753(d)(1)(vii)] List of new/discontinued aircraft models and, for new models, list of parts normally removed for depainting. [63.753(d)(1)(viii)] Organic HAP control device exceedances. [63.753(d)(3)] Statement certifying compliance. [63.753(d)(1)(ix)] <p><u>Annual</u> (12 months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> Exceedances of average annual volume or weight allowance for spot stripping and decal removal. [63.753(d)(2)(I)] Number of times the pressure drop or water flow rate limits were exceeded. [63.753(d)(2)(ii)]
<u>Maskant Operations</u>	
Standards	<p>Minimize spills during handling and transfer [63.747(b)]</p> <p><u>Uncontrolled Maskants</u></p> <ol style="list-style-type: none"> Organic HAP emissions: ≤ 622 g/l (5.2 lb/gal) (less water) as applied for Type I; ≤ 160 g/L (1.3 lb/gal) (less water) as applied for Type II. [63.747(c)(1)] VOC emissions: ≤ 622 g/l (5.2 lb/gal) (less water and exempt solvents) as applied for Type I, ≤ 160 g/L (1.3 lb/gal) (less water and exempt solvents) as applied for Type II. [63.747(c)(2)] Exemption for touch-up of scratched surfaces, damaged maskant, and trimmed edges. [63.747(c)(3)] Comply by either: (1) using maskants below content limits, or (2) using monthly volume-weighted averaging provisions described in §63.743(d). [63.747(e)] <p><u>Controlled Maskants</u></p> <ol style="list-style-type: none"> If control device is used, system must capture and control all emissions from maskant operation and must achieve an overall control efficiency of at least 81.%. [63.747(d)]
Performance Test Periods and Tests	<p><u>Uncontrolled</u></p> <ol style="list-style-type: none"> Performance Test Period for maskants that are not averaged, each 24-hour period; for maskants that are averaged, each 30-day period (unless otherwise specified). [63.749(h)(1)] <p><u>Controlled</u></p> <ol style="list-style-type: none"> Performance Test Period for noncarbon adsorber, three 1-hour test runs; for carbon adsorber, each rolling material balance period. [63.749(h)(1)] Initial performance test required for all control devices to demonstrate compliance with overall control efficiency requirement. [63.749(h)(2)]

Summary of Subpart GG or 40 CFR Part 63

Maskant Operations (Continued)	
Test Methods and Procedures	<ol style="list-style-type: none"> 1. Organic HAP level determination procedures. [63.750(k) and (l)] 2. VOC level determination procedures. [63.750(m) and (n)] 3. Overall control efficiency of carbon adsorber system determined using specified procedures and equations 9 through 14; for other control devices, determine capture and destruction efficiencies (use equations 15 through 18 to calculate overall control efficiency). For capture efficiency, use Procedure T in Appendix B to 40 CFR 52.741 for total enclosures and 40 CFR 52.741(a)(4)(iii) procedures for all other enclosures. [63.750(g) and (h)]
Monitoring	<ol style="list-style-type: none"> 1. Incinerators and carbon adsorbers: temperature sensors with continuous recorders for incinerators; and install, calibrate, maintain, and operate temperature monitors according to manufacturer's specifications. Use CEMS as an alternative. [63.751(b)]
Recordkeeping	<p><u>Uncontrolled Maskants</u></p> <ol style="list-style-type: none"> 1. For maskants not averaged, mass of organic HAP and VOC emitted per unit volume of chemical milling maskant (less water for HAP; and less water and exempt solvents for VOC) (H_i and G_i); all data, calculations, and test results; monthly volumes of each maskant. [63.752(f)(1)] 2. For "averaged" maskants, monthly volume-weighted average mass of organic HAP or VOC emitted per unit volume of chemical milling maskant as applied (less water for HAP; and less water and exempt solvents for VOC) (H_a and G_a); all data, calculations, and test results. [63.752(f)(2)] <p><u>Controlled Maskants</u></p> <ol style="list-style-type: none"> 3. For carbon adsorbers, overall control efficiency and length of rolling period and all supporting test results/data/calculations used in determining the overall control efficiency; certification of the accuracy of the device that measures the amount of HAP or VOC recovered. [63.752(f)(3)] 4. For incinerators, overall control efficiency; test results, data, and calculations used in determining the overall control efficiency; length of rolling material balance period with data and calculations; record of certification of the accuracy of the device that measures amount of HAP or VOC recovered; or record of carbon replacement time for nonregenerative carbon adsorbers; and incinerator temperature(s). [63.752(f)(4)]
Reporting	<p><u>Semiannual</u> (6 months from the date of notification of compliance status)</p> <ol style="list-style-type: none"> 1. Exceedances or organic HAP/VOC limits. [63.753(e)(1) and (2)] 2. Control device exceedances (out of compliance). [63.753(e)(3)] 3. New maskants. [63.753(e)(4)] 4. New control devices. [63.753(e)(5)] 5. Statement certifying compliance. [63.753(e)(6)]

Q. Woodworking

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
A-HP-1202-02	One woodworking operation in the carpentry shop, located in Building 1202, Hadnot point,	CD-03	One simple cyclones (36 inches in diameter)
A-HP-1202-04	One woodworking operation in the carpentry shop, located in Building 1202, Hadnot point,	CD-04	One simple cyclones (36 inches in diameter)
A-HP-915-06	One woodworking operation	CD-15	One simple cyclone (30 inches in diameter)
A-HP-1249-04	One woodworking operation	CD-16	One cartridge filter (2880 square feet of surface area)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate emissions	Adequate ductwork and properly designed collectors	15A NCAC 2D .0512
Visible emissions	20 percent opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0512: PARTICULATES FROM MISCELLANEOUS WOOD PRODUCTS FINISHING PLANTS

- a. The Permittee shall not cause, allow, or permit particulate matter caused by the working, sanding, or finishing of wood to be discharged from any stack, vent, or building into the atmosphere without providing, as a minimum for its collection, adequate duct work and properly designed collectors. In no case shall the ambient air quality standards be exceeded beyond the property line.

Monitoring [15A NCAC 2Q .0508(f)]

- b. Particulate matter emissions from wood working operation (ID No. A-HP-1202-02 and 04) shall be controlled by two simple cyclones (ID Nos. CD-03 and 04, respectively). Particulate matter emissions from wood working operations (ID No. A-HP-915-06) shall be controlled by one simple cyclone each (ID Nos. CD-05 and CD-15, respectively).

Particulate matter emissions from wood working operation (A-HP-1249-04) shall be controlled by one cartridge filter (ID No. CD-16). To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer, if any. As a minimum, the inspection and maintenance program shall include:

- i. monthly external inspection of the ductwork, and cyclones, noting the structural integrity; and
- ii. an **annual** internal inspection of the cartridge filter only (**ID No. CD-16**), noting the structural integrity and the condition of the filters.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if the ductwork, cyclones, and cartridge filter are not inspected and maintained.

Recordkeeping [15A NCAC 2Q .0508(f)]

- c. The results of inspection and maintenance for the cyclones shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection; and
 - iii. the results of maintenance performed on any control device.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0512 if these records are not maintained.

Reporting [15A NCAC 2Q .0508 (f)]

- d. The Permittee shall submit the results of any maintenance performed on the control devices within 30 days of a written request by the DAQ.
- e. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the woodworking operations shall not be more than 20 percent opacity each when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition Q. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of each source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 Q. 2. a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - (A) the date and time of each action;
 - (B) the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - (C) the results of any corrective actions performed.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

R. Blasting Operations:

Emission Source	Source Description	Control Device	Control Device Description
A-FC-286-11	One silica, aluminum oxide, plastic bead, blasting operation, located in the Field Maintenance Complex	CD-08	One cartridge-type filter (28,800 square feet of surface area)
A-FC-286-21	One abrasive blasting booth, located in the Field Maintenance Complex	CD-17	One cartridge-type filter (28,800 square feet of surface area)

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	$E = 4.10 \times P^{0.67}$ Where: E = allowable particulate emission rate in pounds per hour P = process weight rate in tons per hour	15A NCAC 2D .0515
Visible emissions	20 opacity	15A NCAC 2D .0521

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

- a. Emissions of particulate matter from this source shall not exceed an allowable emission rate as calculated by the following equation: [15A NCAC 2D .0515(a)]

$$E = 4.10 \times P^{0.67} \quad \text{Where } E = \text{allowable emission rate in pounds per hour}$$

$$P = \text{process weight in tons per hour}$$

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2D .0501 (c)(3)]

- b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Condition R. 1. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

- c. Particulate matter emissions from the abrasive cleaning facility shall be controlled by a cartridge type fabric filter system. To assure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there is no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
- i. a monthly visual inspection of the system ductwork and material collection unit for leaks; and
 - ii. an annual (for each 12 month period following the initial inspection) internal inspection of the filter system's structural integrity.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and filter system are not inspected and maintained.

- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. the date and time of each recorded action;
 - ii. the results of each inspection;
 - iii. the results of any maintenance performed on the capture and filter system; and
 - iv. any variance from manufacturer's recommendations, if any, and corrections made.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit the results of any maintenance performed on the capture and filter system within 30 days of a written request by the DAQ.
- f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or

before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the silica, aluminum oxide, and bead blasting operation (ID No. A-FC-286-11) shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ found in Section 3 of this permit. If the results of this test are above the limit given in Condition R. 2. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring [15A NCAC 2Q .0508(f)]

- c. To assure compliance, once a month the Permittee shall observe the emission points of each source for any visible emissions above normal. If visible emissions from this source are observed to be above normal, the Permittee shall either:
 - i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
 - ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 02D .2601 (Method 9) for 12 minutes is below the limit given in Section 2.1 R. 2. a. above.

If the above-normal emissions are not corrected per (i) above or if the demonstration in (ii) above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 02D .0521.

Recordkeeping [15A NCAC 2Q .0508(f)]

- d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - (A) the date and time of each action;
 - (B) the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
 - (C) the results of any corrective actions performed.

Reporting [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the observations by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

S. Two municipal solid waste landfills {ID Nos. A-HP-982-01 (active), NSPS and A-FC-18-01 (closed)}

The following provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Landfill design capacity each (A-HP-982-01, active, NSPS) and (A-FC-18-01, closed)	Less than 2.5 million megagrams or 2.5 million cubic meters Less than 50 Mg of non methane organic compound emissions	15A NCAC 2D .0524 40 CFR Part 60, Subpart WWW
Toxic air pollutants	See Multiple Emission Section 2.2 B	15A NCAC 2D .1100

1. 15A NCAC 2D .0524, 40 CFR Part 60, Subpart WWW

Monitoring/Recordkeeping/Reporting [15A NCAC 2D .0501(c)(4)(A)]

- a. No monitoring, recordkeeping, or reporting is required for any air emissions from this landfill while the design capacity of the landfill remains below 2.5 million Mg or 2.5 million cubic meters.
 - i. This facility has evaluated the toxic air pollutants at maximum rates resulting from increasing amounts of waste placed in the landfill over the lifetime of the landfill from 1998 to 2033.

T. Fire Training Pits:

Emission Source	Source Description	Control Device	Control Device Description
C-AS-3625-05	Fire training pit	None	None
A-HP-TP-446-01	Fire training pit	None	None

Regulated Pollutant	Limits/Standards	Applicable Regulation
None	No applicable regulations	None

U. Remediation Systems:

- C-AS-139-01 (Campbell Street Fuel Farm at MCAS, New River, Ex-situ Pump-and-Treat)
- A-HP-645-03 (Bio Sparge Soil Vapor Extraction System)
- A-HP-900-01 (Bio Sparge Soil Vapor Extraction System)
- B-BB-190-05 (Bio Sparge Soil Vapor Extraction System) *
- A-TT-2463-73 (Bio Sparge Soil Vapor Extraction System) *
- A-HP-1068-01 (Hadnot Point fuel Farm Southeast System, Bio Sparge Soil vapor Extraction) with associated propane/natural gas-fired catalytic oxidizer (0.7 million Btu heat input, CD-14)
- A-LCH-4015-04 (Bio Sparge Soil Vapor Extraction System)
- C-AS-4141-01 (JP-5 Line Area at MCAS, New River, Aggressive Fluid Vapor Recovery and Dual Phase Extraction)
- C-AS-497-01 (JP-5 Rapid Aircraft Refueler at MCAS, New River Aggressive Fluid Vapor Recovery)
- A-HP-45-05 (Air Sparge Vapor Extraction System) *
- C-AS-4158-04 (Air Sparge Vapor Extraction System) *
- A-HP-1111-01 (Hadnot Point fuel Farm Northwest System, Air Sparge Vapor Extraction System)

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	(For ID No. A-HP-1068-01 only) 2.3 pounds per million Btu heat input each	15A NCAC 2D .0516
Visible emissions	(For ID No. A-HP-1068-01 only) 20 percent opacity	15A NCAC 2D .0521
Hazardous Air Pollutants	Less than 3.0 lbs per hour and 3.1 tons per year from process vents	15A NCAC 2D .1111 40 CFR Part 63, Subpart GGGGG

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

- a. Emissions of sulfur dioxide from the **thermal oxidizer (CD-14)** shall not exceed **2.3 pounds per million Btu heat input**. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard. [15A NCAC 2D .0503(a)]

Testing [15A NCAC 2D .0501(c)(4)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(4) and General Condition JJ found in Section 3 of the Title V Operating Permit. If the results of this test are above the limit given in Condition U. 1. a. above in this section, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for sulfur dioxide emissions from the firing of propane or natural gas in the thermal oxidizer.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

- a. Visible emissions from the soil vapor extraction unit (A-HP-1068-01)/thermal oxidizer (CD-14) shall not be more than **20 percent opacity** when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521(d)]

Testing [15A NCAC 2D .0501(c)(8)]

- b. If emissions testing is required, the testing shall be performed in accordance with 15A NCAC 2D .0501(c)(8) and General Condition JJ in Section 3 of the Title V Operating Permit. If the results of this test are above the limit given in Condition U. 2. a. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

- c. No monitoring, recordkeeping, or reporting is required for visible emissions from the firing of propane or natural gas in the thermal oxidizer or for visible emissions from remediation system A-HP-1068-01.

3. 15A NCAC 2D .1111, 40 CFR PART 63, SUBPART GGGGG “NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS: SITE REMEDIATION”

APPLICABILITY

- a. The site remediation systems listed above shall comply with all requirements of 15A NCAC 2D .1111, Maximum Achievable Control Technology, in accordance with 40 CFR Part 63, Subpart GGGGG “National Emission Standards For Hazardous Air Pollutants: Site Remediation” [40 CFR, §63.7881]

DEFINITIONS AND NOMENCLATURE

- b. For the purpose of this permit condition, the definitions and nomenclature contained in 40 CFR §63.7957 shall apply.

GENERAL PROVISIONS

- c. The Permittee shall comply with the requirements of 40 CFR Part 63 Subpart A “General Provisions” according to the applicability of Subpart A to such sources, as identified in Table 3 of 40 CFR Part 63, Subpart GGGGG.

GENERAL STANDARDS [40 CFR §63.7885]

- d. For the process vents that comprise the affected source designated under 40 CFR §63.7882, the Permittee shall select and meet the requirements under one of the facility-wide options specified below:
 - i. For each affected process vent, meet one of the following options:
 - (A) Reduce from all affected process vents the total emissions of HAP listed in Table 1 of 40 CFR Subpart GGGGG to a level less than 3.0 pounds per hour and 3.1 tons per year **or** reduce from all affected process vents the total emissions of the HAP listed in Table 1 of 40 CFR Subpart GGGGG by 95 percent by weight or more.
 - (B) For each closed vent system and control device, the Permittee shall comply with the operating limits and work practice standards in 40 CFR §63.7925(d).
 - (C) Determine for the remediation material treated or managed by the process vented through the affected process vents that the average total volatile organic hazardous air pollutant (VOHAP) concentration, as defined in §63.7957, of this material is less than 10 parts per million by weight (ppmw). Determination of the VOHAP concentration is made using the procedures specified in §63.7943.

CONTROL DEVICE REQUIREMENTS [40 CFR §63.7925]

- e. For each control device other than a flare or a control device used to comply with the facility-wide process vent emission limits in 40 CFR §63.7890(b), the Permittee shall control HAP emissions to meet the following:
- i. Reduce emissions of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from each control device by 95 percent by weight; **or** limit the concentration of total HAP listed in Table 1 of this subpart or TOC (minus methane and ethane) from each combustion control device (a thermal incinerator, catalytic incinerator, boiler, or process heater) to 20 ppmv or less on a dry basis corrected to 3 percent oxygen.
 - ii. Maintain the daily average temperature across the catalyst bed greater than or equal to **802 °F (average catalyst inlet temperature from test)**.
 - iii. Maintain a minimum temperature difference of **33.5 °F** across the catalyst bed.
 - iv. Operate the catalytic oxidizer for a **minimum of 1752 hours** per year.
 - iv. Replace the existing catalyst bed with a bed that meets the replacement specifications before the age of the bed exceeds the maximum allowable established in the design evaluation or during the performance test.
 - v. Use a continuous monitoring parameter system (CMPS) with two temperature sensors to measure and record the hourly average temperature at the inlet of the catalyst bed, the hourly average temperature at the outlet of the catalyst bed, the hourly average temperature difference across the catalyst bed, and to determine and record the daily average temperature difference across the catalyst bed.
 - vi. The Permittee may request approval from the EPA to use an alternative to work practice standards in this section that apply to the closed vent system and control device. If permission to use an alternative to the work practice standards is submitted, the information shall be in accordance with 40 CFR 63.6(g)(2).

f. **MONITORING/RECORDKEEPING REQUIREMENTS** [40 CFR §63.7946]

- i. The Permittee shall monitor and collect data according the facility's site-specific monitoring plan required in §63.7935.
 - (A) You must be in compliance with the emissions limitations (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.
 - (B) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).
 - (C) The Permittee must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).
 - (D) The Permittee must report each instance in which you did not meet each emissions limitation and each operating limit that applies to you. This includes periods of startup, shutdown, and malfunction. The Permittee shall also report each instance in which you did not meet the requirements for work practice standards that apply to you. These instances are deviations from the emissions limitations and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7951.
 - (E) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).
 - (F) For each monitoring system required in this section, The Permittee shall develop and make available for inspection by the permitting authority, upon request, a site-specific monitoring plan that addresses the following:
 - (1) Installation of the continuous monitoring system sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device).
 - (2) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction system.
 - (3) Performance evaluation procedures and acceptance criteria (e.g., calibrations).
 - (G) The site-specific monitoring plan, shall address the following:
 - (1) Ongoing operation and maintenance procedures according to the general requirements of §63.8(c)(1), (3), (4)(ii), (7), and (8).

- (2) Ongoing data quality assurance procedures according to the general requirements of §63.8(d).
- (3) Ongoing recordkeeping and reporting procedures according to the general requirements of §63.10(c), (e)(1), and (e)(2)(i).
- (H) The Permittee shall operate and maintain the continuous monitoring system according to the site-specific monitoring plan.
- (I) The Permittee shall conduct a performance evaluation of each continuous monitoring system according to the site-specific monitoring plan.

Reporting [15A NCAC 2Q .0508(f)]

- g. The Permittee shall submit a summary report of monitoring and recordkeeping activities by January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2.2- Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide

STATE-ONLY REQUIREMENT

1. **TOXIC AIR POLLUTANT EMISSIONS LIMITATION AND REQUIREMENT** - Pursuant to 15A NCAC 02D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following permit limits in Table B.7 shall not be exceeded:

Table B-7. Allowable Emission Rates for Zone A

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
A-FC-18-01 Landfill	FC1801	ACRYLONITRILE			8.695E+03
A-HP-982-01 Landfill	HP98201	ACRYLONITRILE			9.468E+03
Y-HP-1613-01A AST	HP161301	BENZENE			2.445E+02
Y-HP-1613-02A AST	HP161302	BENZENE			2.445E+02
Y-HP-1613-03A AST	HP161303	BENZENE			2.445E+02
Y-HP-961-01A AST	HP96101	BENZENE			5.816E+01
Y-HP-961-02A AST	HP96102	BENZENE			5.816E+01
Y-HP-961-07A AST	HP96107A	BENZENE			2.406E-02
LCH-4034-1 AST	LCH40341	BENZENE			6.007E+01
LCH-4034-2 AST	LCH40342	BENZENE			6.007E+01
LCH-4034-3 AST	LCH40343	BENZENE			1.948E+01
Y-HP-STP446-02A AST	STP44602	BENZENE			7.515E+00
A-FC-280-10 Paint booth	FC28010	BENZENE			1.413E+01
A-HP-1041-01 Paint booth	HP104101	BENZENE			1.566E+00
A-HP-1202-78 Paint booth	HP120278	BENZENE			1.048E+02
A-HP-S-1124-01 Paint booth	S112401	BENZENE			5.882E-01
A-BM-820-05 Remediation	BM82005	BENZENE			9.142E+02
A-HP-1068-01 Remediation	HP106801	BENZENE			3.532E+01
A-HP-1111-01 Remediation	HP111101	BENZENE			2.874E+03
A-HP-45-05 Remediation	HP4505	BENZENE			2.282E+01
A-HP-645-03 Remediation	HP64503	BENZENE			8.222E+02
A-LCH-4015-Remediation	LCH4015	BENZENE			3.672E+00

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
1232-1 UST	12321	BENZENE			2.445E+02
1232-2 UST	12322	BENZENE			2.445E+02
1232-3 UST	12323	BENZENE			2.445E+02
1232-4 UST	12324	BENZENE			2.445E+02
31/S-715-N-UST	31S715N	BENZENE			3.084E+00
FC-200-4 UST	FC20004	BENZENE			1.471E+00
FC-298-1 UST	FC2981	BENZENE			3.179E+01
FC-298-2 UST	FC2982	BENZENE			5.643E+01
FC-298-3 UST	FC2983	BENZENE			5.643E+01
TT-2478-1 UST	TT247801	BENZENE			2.511E+02
TT-2478-2 UST	TT247802	BENZENE			2.511E+02
TT-2478-3 UST	TT247803	BENZENE			2.511E+02
Y-NH-118-01A AST	NH11801	BENZENE			3.072E+01
FC-195-01U UST	FC19501U	BENZENE			4.596E+00
FC-241-01A AST	FC24101A	BENZENE			1.146E+02
HP-30-01U UST	HP3001U	BENZENE			4.879E+00
HP-HP100-05U UST	HP10005U	BENZENE			1.129E+00
HP-HP237-05U UST	HP23705U	BENZENE			5.959E+00
HP-S972-01A AST	HPS9721A	BENZENE			2.288E+01
PG-STP-446-02A AST	PG44602A	BENZENE			5.987E+00
PP-1932-02U UST	PP19322U	BENZENE			4.879E+00
PP-820-01U UST	PP82001U	BENZENE			1.690E+02
PP-820-02U UST	PP82002U	BENZENE			1.690E+02
PP-820-03U UST	PP82003U	BENZENE			1.690E+02
TT-69-01U UST	TT6901U	BENZENE			5.443E-01
A-FC-18-01 Landfill	FC1801	BENZENE			1.881E+03
A-FC-440-01 WWT	FC44001	BENZENE			1.907E+01
A-HP-982-01 Landfill	HP98201	BENZENE			1.537E+03
Y-NH-118-01AD UST Dispensing	NH1181AD	BENZENE			1.461E+00
1232-1D Dispensing	12321D	BENZENE			5.685E+01
1232-2D Dispensing	12322D	BENZENE			5.685E+01
1232-3D Dispensing	12323D	BENZENE			5.685E+01
1232-4D Dispensing	12324D	BENZENE			5.685E+01
31/S-715-ND UST Dispensing	31S715ND	BENZENE			1.152E-01
FC-200-4D Dispensing	FC2004D	BENZENE			6.897E-01
FC-298-1D Dispensing	FC2981D	BENZENE			2.950E+01
FC-298-2D Dispensing	FC2982D	BENZENE			2.950E+01
FC-298-3D Dispensing	FC2983D	BENZENE			2.950E+01
LC-4034-1D Dispensing	LC40341D	BENZENE			2.040E+01
LC-4034-2D Dispensing	LC40342D	BENZENE			2.040E+01
LC-4034-3D Dispensing	LC40343D	BENZENE			2.836E+00
TT-2478-1D Dispensing	TT24781D	BENZENE			1.430E+01
TT-2478-2D Dispensing	TT24782D	BENZENE			1.430E+01
TT-2478-3D Dispensing	TT24783D	BENZENE			1.430E+01
Y-HP-1613-01AD Dispensing	H16131AD	BENZENE			2.072E+01

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
Y-HP-1613-02AD Dispensing	H16132AD	BENZENE			2.072E+01
Y-HP-1613-03AD Dispensing	H16133AD	BENZENE			2.072E+01
Y-HP-961-01AD Dispensing	HP9611AD	BENZENE			3.891E+00
Y-HP-961-02AD Dispensing	HP9612AD	BENZENE			3.891E+00
Y-HP-S971-01AD Dispensing	S97101AD	BENZENE			7.974E+02
FC-195-01U UST Dispensing	FC1951UD	BENZENE			1.556E+00
FC-241-01A AST Dispensing	FC2411AD	BENZENE			1.945E+00
HP-30-01U UST Dispensing	HP3001UD	BENZENE			2.594E-01
HP-HP100-05U UST Dispensing	HP1005UD	BENZENE			5.187E-01
HP-HP237-05U UST Dispensing	HP2375UD	BENZENE			6.225E-01
HP-S972-01A AST Dispensing	HPS9721D	BENZENE			1.556E+01
PG-STP-446-02A AST Dispensing	PG4462AD	BENZENE			5.187E-01
PP-1932-02U UST Dispensing	PP19322D	BENZENE			2.594E-01
PP-820-01U UST Dispensing	PP8201UD	BENZENE			2.865E+01
PP-820-02U UST Dispensing	PP8202UD	BENZENE			2.865E+01
PP-820-03U UST Dispensing	PP8203UD	BENZENE			2.865E+01
TT-69-01U UST Dispensing	TT6901UD	BENZENE			3.361E+00
A-FC-280-10 Paint booth	FC28010	CARBON TETRACHLORIDE			4.582E+05
A-BM-820-05 Remediation	BM82005	CARBON TETRACHLORIDE			1.919E+05
A-HP-45-05 Remediation	HP4505	CARBON TETRACHLORIDE			1.619E+04
A-HP-645-03 Remediation	HP64503	CARBON TETRACHLORIDE			2.479E+04
A-LCH-4015-Remediation	LCH4015	CARBON TETRACHLORIDE			1.585E+04
A-FC-280-10 Paint booth	FC28010	DI(2-ETHYLHEXYL) PHTHALATE		1.820E+00	
A-HP-1041-01 Paint booth	HP104101	DI(2-ETHYLHEXYL) PHTHALATE		2.067E+00	
A-HP-1202-78 Paint booth	HP120278	DI(2-ETHYLHEXYL) PHTHALATE		5.990E+01	
A-HP-1249-03 Paint booth	HP124903	DI(2-ETHYLHEXYL) PHTHALATE		1.953E+02	
A-HP-S-1124-01 Paint booth	S112401	DI(2-ETHYLHEXYL) PHTHALATE		1.710E+00	
A-HP-1068-01 Remediation	HP106801	ETHYLENE DICHLORIDE			2.796E+05
A-HP-1202-78 Paint booth	HP120278	FORMALDEHYDE	4.886E+00		
A-HP-S-1124-01 Paint booth	S112401	FORMALDEHYDE	2.439E+00		
Y-HP-1613-01A AST	HP161301	n-HEXANE		1.432E+02	
Y-HP-1613-02A AST	HP161302	n-HEXANE		1.432E+02	
Y-HP-1613-03A AST	HP161303	n-HEXANE		1.432E+02	
Y-HP-961-01A AST	HP96101	n-HEXANE		3.376E+00	
Y-HP-961-02A AST	HP96102	n-HEXANE		3.376E+00	
Y-HP-961-07A AST	HP96107A	n-HEXANE		3.153E-04	
LCH-4034-1 AST	LCH40341	n-HEXANE		1.681E+02	
LCH-4034-2 AST	LCH40342	n-HEXANE		3.928E+02	
LCH-4034-3 AST	LCH40343	n-HEXANE		1.249E+02	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
Y-HP-STP446-02A AST	STP44602	n-HEXANE		4.387E-01	
A-BM-820-05 Remediation	BM82005	n-HEXANE		2.167E+00	
A-HP-1068-01 Remediation	HP106801	n-HEXANE		3.915E+02	
A-HP-1111-01 Remediation	HP111101	n-HEXANE		1.030E+02	
A-HP-45-05 Remediation	HP4505	n-HEXANE		3.074E-03	
A-HP-645-03 Remediation	HP64503	n-HEXANE		2.259E+03	
A-LCH-4015-Remediation	LCH4015	n-HEXANE		6.962E-01	
1232-1 UST	12321	n-HEXANE		1.432E+02	
1232-2 UST	12322	n-HEXANE		1.432E+02	
1232-3 UST	12323	n-HEXANE		1.432E+02	
1232-4 UST	12324	n-HEXANE		1.432E+02	
31/S-715-N-UST	31S715N	n-HEXANE		1.419E+00	
FC-200-4 UST	FC20004	n-HEXANE		2.378E-01	
FC-298-1 UST	FC2981	n-HEXANE		5.832E-01	
FC-298-2 UST	FC2982	n-HEXANE		5.832E-01	
FC-298-3 UST	FC2983	n-HEXANE		5.832E-01	
TT-2478-1 UST	TT247801	n-HEXANE		1.149E+02	
TT-2478-2 UST	TT247802	n-HEXANE		1.149E+02	
TT-2478-3 UST	TT247803	n-HEXANE		1.149E+02	
Y-NH-118-01A AST	NH11801	n-HEXANE		9.721E+00	
FC-195-01U UST	FC19501U	n-HEXANE		1.643E+00	
FC-241-01A AST	FC24101A	n-HEXANE		6.660E+01	
HP-30-01U UST	HP3001U	n-HEXANE		9.811E+00	
HP-HP100-05U UST	HP10005U	n-HEXANE		9.526E-02	
HP-HP237-05U UST	HP23705U	n-HEXANE		3.494E-01	
HP-S972-01A AST	HPS9721A	n-HEXANE		1.919E+00	
PG-STP-446-02A AST	PG44602A	n-HEXANE		5.102E-01	
PP-1932-02U UST	PP19322U	n-HEXANE		9.811E+00	
PP-820-01U UST	PP82001U	n-HEXANE		7.763E+01	
PP-820-02U UST	PP82002U	n-HEXANE		7.763E+01	
PP-820-03U UST	PP82003U	n-HEXANE		7.763E+01	
TT-69-01U UST	TT6901U	n-HEXANE		4.698E-02	
A-FC-18-01 Landfill	FC1801	n-HEXANE		7.972E+02	
A-HP-982-01 Landfill	HP98201	n-HEXANE		6.486E+02	
Y-NH-118-01AD UST Dispensing	NH1181AD	n-HEXANE		6.696E+00	
1232-1D Dispensing	12321D	n-HEXANE		9.512E+00	
1232-2D Dispensing	12322D	n-HEXANE		9.512E+00	
1232-3D Dispensing	12323D	n-HEXANE		9.512E+00	
1232-4D Dispensing	12324D	n-HEXANE		9.512E+00	
31/S-715-ND UST Dispensing	31S715ND	n-HEXANE		2.567E+00	
FC-200-4D Dispensing	FC2004D	n-HEXANE		2.567E+00	
FC-298-1D Dispensing	FC2981D	n-HEXANE		3.844E+00	
FC-298-2D Dispensing	FC2982D	n-HEXANE		3.844E+00	
FC-298-3D Dispensing	FC2983D	n-HEXANE		3.844E+00	
LC-4034-1D Dispensing	LC40341D	n-HEXANE		2.368E+00	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
LC-4034-2D Dispensing	LC40342D	n-HEXANE		2.368E+00	
LC-4034-3D Dispensing	LC40343D	n-HEXANE		5.933E-01	
TT-2478-1D Dispensing	TT24781D	n-HEXANE		2.210E+00	
TT-2478-2D Dispensing	TT24782D	n-HEXANE		2.210E+00	
TT-2478-3D Dispensing	TT24783D	n-HEXANE		2.210E+00	
Y-HP-1613-01AD Dispensing	H16131AD	n-HEXANE		9.512E+00	
Y-HP-1613-02AD Dispensing	H16132AD	n-HEXANE		9.512E+00	
Y-HP-1613-03AD Dispensing	H16133AD	n-HEXANE		9.512E+00	
Y-HP-961-01AD Dispensing	HP9611AD	n-HEXANE		6.315E-01	
Y-HP-961-02AD Dispensing	HP9612AD	n-HEXANE		6.315E-01	
Y-HP-S971-01AD Dispensing	S97101AD	n-HEXANE		4.657E+02	
FC-195-01U UST Dispensing	FC1951UD	n-HEXANE		2.306E+00	
FC-241-01A AST Dispensing	FC2411AD	n-HEXANE		1.697E+00	
HP-30-01U UST Dispensing	HP3001UD	n-HEXANE		3.844E-01	
HP-HP100-05U UST Dispensing	HP1005UD	n-HEXANE		2.667E+00	
HP-HP237-05U UST Dispensing	HP2375UD	n-HEXANE		2.567E+00	
HP-S972-01A AST Dispensing	HPS9721D	n-HEXANE		2.306E+01	
PG-STP-446-02A AST Dispensing	PG4462AD	n-HEXANE		2.685E-02	
PP-1932-02U UST Dispensing	PP19322D	n-HEXANE		2.567E+00	
PP-820-01U UST Dispensing	PP8201UD	n-HEXANE		1.314E+01	
PP-820-02U UST Dispensing	PP8202UD	n-HEXANE		1.314E+01	
PP-820-03U UST Dispensing	PP8203UD	n-HEXANE		1.314E+01	
TT-69-01U UST Dispensing	TT6901UD	n-HEXANE		1.539E+01	
A-FC-280-10 Paint booth	FC28010	MANGANESE		2.110E+01	
A-HP-S-1124-01 Paint booth	S112401	MANGANESE		3.007E+02	
A-HP-1202-10 Welding	HP120210	MANGANESE		4.485E+00	
A-HP-1410-03 Welding	HP141003	MANGANESE		8.469E+00	
A-HP-1502-10 Welding	HP150210	MANGANESE		8.469E+00	
A-HP-1700-14 Welding	HP170014	MANGANESE		8.469E+00	
A-FC-200-05 Welding	FC20005	MANGANESE		9.425E-01	
A-FC-143-02 Welding	FC14302	MANGANESE		9.425E-01	
A-FC-286-10 Welding	FC28610	MANGANESE		2.699E+01	
A-FC-286-14 Welding	FC28614	MANGANESE		8.467E+00	
A-FC-286-15 Welding	FC28615	MANGANESE		8.467E+00	
A-FC-441-01 Welding	FC44101	MANGANESE		5.338E+00	
A-HP-1202-06 Welding	HP120206	MANGANESE		8.467E+00	
A-HP-1249-05 Welding	HP124905	MANGANESE		9.804E+00	
A-HP-1765-02 Welding	HP176502	MANGANESE		8.142E+00	
A-HP-1854-10 Welding	HP185410	MANGANESE		8.467E+00	
A-HP-1880-05 Welding	HP188005	MANGANESE		8.467E+00	
A-NH-100-13 Welding	NH10013	MANGANESE		2.699E+01	
A-FC-375-04 Welding	AFC37504	MANGANESE		1.746E+00	
A-HP-1202-78 Paint booth	HP120278	METHYLENE CHLORIDE	2.291E-04		5.162E+00
A-BM-820-05 Remediation	BM82005	METHYLENE CHLORIDE	2.214E-03		2.365E+01
A-HP-645-03 Remediation	HP64503	METHYLENE CHLORIDE	3.976E-04		4.247E+00

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
A-FC-18-01 Landfill	FC1801	METHYLENE CHLORIDE	1.512E+02		1.384E+06
A-HP-1202-01 Paint gun washer	HP120201	METHYLENE CHLORIDE	9.762E+00		2.384E+04
A-HP-1249-02 Paint gun washer	HP124902	METHYLENE CHLORIDE	9.762E+00		2.384E+04
A-HP-982-01 Landfill	HP98201	METHYLENE CHLORIDE	8.293E+01		1.506E+06
A-FC-280-10 Paint booth	FC28010	METHYL ETHYL KETONE (MEK)	7.105E+02	3.243E+03	
A-FC-286-12 Paint booth	FC28612	METHYL ETHYL KETONE (MEK)	2.641E+03	1.205E+04	
A-FC-286-13 Paint booth	FC28613	METHYL ETHYL KETONE (MEK)	2.641E+03	1.205E+04	
A-FC-286-20 Paint booth	FC28620	METHYL ETHYL KETONE (MEK)	4.427E+00	1.205E+04	
A-HP-1041-01 Paint booth	HP104101	METHYL ETHYL KETONE (MEK)	3.125E+01	7.091E+01	
A-HP-1202-78 Paint booth	HP120278	METHYL ETHYL KETONE (MEK)	3.199E+01	4.168E+03	
A-HP-1249-03 Paint booth	HP124903	METHYL ETHYL KETONE (MEK)	5.710E+02	2.604E+03	
A-HP-908-01 Paint booth at Hazmart	HP90801	METHYL ETHYL KETONE (MEK)	1.027E+01	3.498E+01	
A-HP-S-1124-01 Paint booth	S112401	METHYL ETHYL KETONE (MEK)	7.849E+01	1.078E+02	
A-BM-820-05 Remediation	BM82005	METHYL ETHYL KETONE (MEK)	2.251E-03	6.169E-02	
A-HP-45-05 Remediation	HP4505	METHYL ETHYL KETONE (MEK)	9.988E-05	2.731E-03	
A-HP-645-03 Remediation	HP64503	METHYL ETHYL KETONE (MEK)	8.351E-04	2.283E-02	
A-FC-18-01 Landfill	FC1801	METHYL ETHYL KETONE (MEK)	7.968E+01	3.625E+02	
A-HP-1202-01 Paint gun washer	HP120201	METHYL ETHYL KETONE (MEK)	2.127E+02	9.698E+02	
A-HP-1249-02 Paint gun washer	HP124902	METHYL ETHYL KETONE (MEK)	2.127E+02	9.698E+02	
A-HP-982-01 Landfill	HP98201	METHYL ETHYL KETONE (MEK)	6.475E+01	2.945E+02	
A-FC-280-10 Paint booth	FC28010	METHYL ISOBUTYL KETONE (MIBK)	2.542E+01	1.567E+02	
A-FC-286-12 Paint booth	FC28612	METHYL ISOBUTYL KETONE (MIBK)	5.781E+02	8.585E+03	
A-FC-286-13 Paint booth	FC28613	METHYL ISOBUTYL KETONE (MIBK)	5.781E+02	8.585E+03	
A-FC-286-20 Paint booth	FC28620	METHYL ISOBUTYL KETONE (MIBK)	5.781E+02	8.585E+03	
A-HP-1041-01 Paint booth	HP104101	METHYL ISOBUTYL KETONE (MIBK)	8.341E+01	2.066E+02	
A-HP-1249-03 Paint booth	HP124903	METHYL ISOBUTYL KETONE (MIBK)	4.725E+02	2.334E+03	
A-HP-908-01 Paint booth at Hazmart	HP90801	METHYL ISOBUTYL KETONE (MIBK)	8.484E+00	3.150E+01	
A-HP-S-1124-01 Paint booth	S112401	METHYL ISOBUTYL KETONE (MIBK)	1.808E+02	2.389E+02	
A-FC-18-01 Landfill	FC1801	METHYL ISOBUTYL KETONE (MIBK)	1.303E+01	2.376E+02	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
A-HP-1202-01 Paint gun washer	HP120201	METHYL ISOBUTYL KETONE (MIBK)	9.540E+01	1.740E+03	
A-HP-1249-02 Paint gun washer	HP124902	METHYL ISOBUTYL KETONE (MIBK)	9.540E+01	1.740E+03	
A-HP-982-01 Landfill	HP98201	METHYL ISOBUTYL KETONE (MIBK)	1.060E+01	1.932E+02	
A-FC-18-01 Landfill	FC1801	METHYL MERCAPTAN	4.059E+00		
A-HP-982-01 Landfill	HP98201	METHYL MERCAPTAN	3.019E+00		
A-FC-280-10 Paint booth	FC28010	NICKEL METAL		3.946E-01	
A-HP-S-1124-01 Paint booth	S112401	NICKEL METAL		1.008E+00	
AC-FC-100-07 Welding	FC10007	NICKEL METAL		1.915E-01	
A-HP-1202-10 Welding	HP120210	NICKEL METAL		1.038E+01	
A-HP-1410-03 Welding	HP141003	NICKEL METAL		1.438E-01	
A-HP-1502-10 Welding	HP150210	NICKEL METAL		5.261E+00	
A-HP-1700-14 Welding	HP170014	NICKEL METAL		2.072E+01	
A-HP-575-11 Welding	HP57511	NICKEL METAL		2.072E+01	
A-HP-738-03 Welding	HP73803	NICKEL METAL		2.061E+00	
A-FC-200-05 Welding	FC20005	NICKEL METAL		5.685E-04	
A-FC-143-02 Welding	FC14302	NICKEL METAL		4.017E-04	
A-FC-286-10 Welding	FC28610	NICKEL METAL		1.150E-02	
A-FC-286-14 Welding	FC28614	NICKEL METAL		1.038E+01	
A-FC-286-15 Welding	FC28615	NICKEL METAL		1.038E+01	
A-FC-441-01 Welding	FC44101	NICKEL METAL		2.008E+00	
A-HP-1202-06 Welding	HP120206	NICKEL METAL		1.038E+01	
A-HP-1249-05 Welding	HP124905	NICKEL METAL		2.707E-03	
A-HP-1765-02 Welding	HP176502	NICKEL METAL		2.061E+00	
A-HP-1854-10 Welding	HP185410	NICKEL METAL		2.072E+00	
A-HP-1880-05 Welding	HP188005	NICKEL METAL		3.595E+00	
A-NH-100-13 Welding	NH10013	NICKEL METAL		1.150E-02	
A-FC-375-04 Welding	AFC37504	NICKEL METAL		4.820E-04	
A-FC-280-10 Paint booth	FC28010	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.435E-04
A-HP-1249-03 Paint booth	HP124903	NON-SPECIFIC CHROMIUM VI COMPOUNDS			5.996E-02
A-HP-S-1124-01 Paint booth	S112401	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.245E+00
AC-FC-100-07 Welding	FC10007	NON-SPECIFIC CHROMIUM VI COMPOUNDS			8.303E-02
A-HP-1202-10 Welding	HP120210	NON-SPECIFIC CHROMIUM VI COMPOUNDS			5.533E-03
A-HP-1410-03 Welding	HP141003	NON-SPECIFIC CHROMIUM VI COMPOUNDS			4.978E-02

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
A-HP-1502-10 Welding	HP150210	NON-SPECIFIC CHROMIUM VI COMPOUNDS			7.949E-01
A-HP-1700-14 Welding	HP170014	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.099E+00
A-HP-575-11 Welding	HP57511	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.563E-02
A-HP-738-03 Welding	HP73803	NON-SPECIFIC CHROMIUM VI COMPOUNDS			5.959E-01
A-FC-200-05 Welding	FC20005	NON-SPECIFIC CHROMIUM VI COMPOUNDS			3.381E-04
A-FC-286-10 Welding	FC28610	NON-SPECIFIC CHROMIUM VI COMPOUNDS			4.083E-04
A-FC-286-14 Welding	FC28614	NON-SPECIFIC CHROMIUM VI COMPOUNDS			8.263E-03
A-FC-286-15 Welding	FC28615	NON-SPECIFIC CHROMIUM VI COMPOUNDS			8.263E-03
A-FC-441-01 Welding	FC44101	NON-SPECIFIC CHROMIUM VI COMPOUNDS			9.354E-03
A-HP-1202-06 Welding	HP120206	NON-SPECIFIC CHROMIUM VI COMPOUNDS			5.506E-03
A-HP-1249-05 Welding	HP124905	NON-SPECIFIC CHROMIUM VI COMPOUNDS			4.083E-05
A-HP-1765-02 Welding	HP176502	NON-SPECIFIC CHROMIUM VI COMPOUNDS			5.931E-01
A-HP-1854-10 Welding	HP185410	NON-SPECIFIC CHROMIUM VI COMPOUNDS			2.206E-02
A-HP-1880-05 Welding	HP188005	NON-SPECIFIC CHROMIUM VI COMPOUNDS			4.132E-02
A-NH-100-13 Welding	NH10013	NON-SPECIFIC CHROMIUM VI COMPOUNDS			4.083E-04
A-FC-375-04 Welding	AFC37504	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.127E-04
A-FC-280-10 Paint booth	FC28010	PERCHLOROETHYLENE			2.607E+06
A-HP-1041-01 Paint booth	HP104101	PERCHLOROETHYLENE			1.274E+06
A-FC-18-01 Landfill	FC1801	PERCHLOROETHYLENE			7.965E+06
A-HP-982-01 Landfill	HP98201	PERCHLOROETHYLENE			1.605E+07
A-FC-280-21 Parts oven	FC28021	SOLUBLE CHROMATE COMPOUNDS		1.633E+00	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
A-FC-280-22 Parts oven	FC28022	SOLUBLE CHROMATE COMPOUNDS		1.633E+00	
A-HP-1250-03 Parts oven	HP125003	SOLUBLE CHROMATE COMPOUNDS		1.633E+00	
Y-HP-1613-01A AST	HP161301	TOLUENE	2.597E+00	2.050E+02	
Y-HP-1613-02A AST	HP161302	TOLUENE	2.597E+00	2.050E+02	
Y-HP-1613-03A AST	HP161303	TOLUENE	2.597E+00	2.050E+02	
Y-HP-961-01A AST	HP96101	TOLUENE	6.214E-02	4.884E+00	
Y-HP-961-02A AST	HP96102	TOLUENE	6.214E-02	4.884E+00	
Y-HP-961-07A AST	HP96107A	TOLUENE	2.637E-04	2.077E-02	
LCH-4034-1 AST	LCH40341	TOLUENE	3.034E+00	2.385E+02	
LCH-4034-2 AST	LCH40342	TOLUENE	7.354E+00	5.808E+02	
LCH-4034-3 AST	LCH40343	TOLUENE	2.345E+00	1.843E+02	
Y-HP-STP446-02A AST	STP44602	TOLUENE	7.990E-03	6.291E-01	
A-FC-280-10 Paint booth	FC28010	TOLUENE	8.162E+01	1.342E+03	
A-FC-286-12 Paint booth	FC28612	TOLUENE	6.347E+02	2.085E+03	
A-FC-286-13 Paint booth	FC28613	TOLUENE	6.347E+02	2.085E+03	
A-FC-286-20 Paint booth	FC28620	TOLUENE	6.347E+02	2.085E+03	
A-HP-1041-01 Paint booth	HP104101	TOLUENE	2.624E+02	3.454E+03	
A-HP-1202-78 Paint booth	HP120278	TOLUENE	1.276E+01	3.353E+02	
A-HP-1249-03 Paint booth	HP124903	TOLUENE	1.603E+03	2.099E+04	
A-HP-908-01 Paint booth at Hazmart	HP90801	TOLUENE	2.769E+01	2.728E+02	
A-HP-S-1124-01 Paint booth	S112401	TOLUENE	5.419E+01	2.565E+02	
A-BM-820-05 Remediation	BM82005	TOLUENE	2.134E+01	1.683E+03	
A-HP-1068-01 Remediation	HP106801	TOLUENE	5.038E-02	3.972E+00	
A-HP-1111-01 Remediation	HP111101	TOLUENE	3.737E-01	2.943E+01	
A-HP-45-05 Remediation	HP4505	TOLUENE	2.761E-03	2.176E-01	
A-HP-645-03 Remediation	HP64503	TOLUENE	2.465E+02	1.940E+04	
A-LCH-4015-Remediation	LCH4015	TOLUENE	3.392E-02	2.671E+00	
1232-1 UST	12321	TOLUENE	2.597E+00	2.050E+02	
1232-2 UST	12322	TOLUENE	2.597E+00	2.050E+02	
1232-3 UST	12323	TOLUENE	2.597E+00	2.050E+02	
1232-4 UST	12324	TOLUENE	2.597E+00	2.050E+02	
31/S-715-N-UST	31S715N	TOLUENE	3.949E-03	3.111E-01	
FC-200-4 UST	FC20004	TOLUENE	4.293E-03	3.383E-01	
FC-298-1 UST	FC2981	TOLUENE	2.519E-02	2.019E+00	
FC-298-2 UST	FC2982	TOLUENE	4.595E-02	9.723E-02	
FC-298-3 UST	FC2983	TOLUENE	4.595E-02	9.723E-02	
TT-2478-1 UST	TT247801	TOLUENE	3.207E-01	2.530E+01	
TT-2478-2 UST	TT247802	TOLUENE	3.207E-01	2.530E+01	
TT-2478-3 UST	TT247803	TOLUENE	3.207E-01	2.530E+01	
Y-NH-118-01A AST	NH11801	TOLUENE	1.749E-01	1.381E+01	
FC-195-01U UST	FC19501U	TOLUENE	4.316E-02	8.053E+00	
FC-241-01A AST	FC24101A	TOLUENE	1.214E+00	9.591E+01	
HP-30-01U UST	HP3001U	TOLUENE	3.980E-02	7.447E+00	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
HP-HP100-05U UST	HP10005U	TOLUENE	9.010E-02	7.103E-02	
HP-HP237-05U UST	HP23705U	TOLUENE	6.294E-03	4.972E-01	
HP-S972-01A AST	HPS9721A	TOLUENE	1.886E-02	1.487E+00	
PG-STP-446-02A AST	PG44602A	TOLUENE	4.889E-03	3.854E-01	
PP-1932-02U UST	PP19322U	TOLUENE	3.980E-02	7.447E+00	
PP-820-01U UST	PP82001U	TOLUENE	2.173E-01	1.711E+01	
PP-820-02U UST	PP82002U	TOLUENE	2.173E-01	1.711E+01	
PP-820-03U UST	PP82003U	TOLUENE	2.173E-01	1.711E+01	
TT-69-01U UST	TT6901U	TOLUENE	4.601E-04	3.627E-02	
A-FC-18-01 Landfill	FC1801	TOLUENE	3.141E+02	2.477E+04	
A-FC-440-01 WWT	FC44001	TOLUENE	1.773E-02	1.397E+00	
A-HP-1202-01 Paint gun washer	HP120201	TOLUENE	8.496E+01	2.231E+03	
A-HP-1249-02 Paint gun washer	HP124902	TOLUENE	8.496E+01	2.231E+03	
A-HP-982-01 Landfill	HP98201	TOLUENE	2.558E+02	2.015E+04	
Y-NH-118-01AD UST Dispensing	NH1181AD	TOLUENE	3.023E-01	1.979E+00	
1232-1D Dispensing	12321D	TOLUENE	3.023E-01	2.090E+00	
1232-2D Dispensing	12322D	TOLUENE	3.023E-01	2.090E+00	
1232-3D Dispensing	12323D	TOLUENE	3.023E-01	2.090E+00	
1232-4D Dispensing	12324D	TOLUENE	3.023E-01	2.090E+00	
31/S-715-ND UST Dispensing	31S715ND	TOLUENE	3.023E-01	1.979E+00	
FC-200-4D Dispensing	FC2004D	TOLUENE	3.023E-01	1.979E+00	
FC-298-1D Dispensing	FC2981D	TOLUENE	1.763E+00	2.906E+00	
FC-298-2D Dispensing	FC2982D	TOLUENE	3.023E-01	2.906E+00	
FC-298-3D Dispensing	FC2983D	TOLUENE	3.023E-01	2.906E+00	
LC-4034-1D Dispensing	LC40341D	TOLUENE	1.763E+00	2.906E+00	
LC-4034-2D Dispensing	LC40342D	TOLUENE	1.763E+00	2.906E+00	
LC-4034-3D Dispensing	LC40343D	TOLUENE	1.763E+00	7.265E-01	
TT-2478-1D Dispensing	TT24781D	TOLUENE	1.763E+00	2.906E+00	
TT-2478-2D Dispensing	TT24782D	TOLUENE	1.763E+00	2.906E+00	
TT-2478-3D Dispensing	TT24783D	TOLUENE	1.763E+00	2.906E+00	
Y-HP-1613-01AD Dispensing	H16131AD	TOLUENE	1.763E+00	2.090E+00	
Y-HP-1613-02AD Dispensing	H16132AD	TOLUENE	1.763E+00	2.090E+00	
Y-HP-1613-03AD Dispensing	H16133AD	TOLUENE	1.763E+00	2.090E+00	
Y-HP-961-01AD Dispensing	HP9611AD	TOLUENE	3.023E-01	8.684E+01	
Y-HP-961-02AD Dispensing	HP9612AD	TOLUENE	3.023E-01	8.684E+01	
Y-HP-S971-01AD Dispensing	S97101AD	TOLUENE	8.482E+00	6.687E+02	
FC-195-01U UST Dispensing	FC1951UD	TOLUENE	1.763E+00	3.474E+01	
FC-241-01A AST Dispensing	FC2411AD	TOLUENE	1.763E+00	4.342E+01	
HP-30-01U UST Dispensing	HP3001UD	TOLUENE	1.763E+00	5.790E+00	
HP-HP100-05U UST Dispensing	HP1005UD	TOLUENE	1.763E+00	1.158E+01	
HP-HP237-05U UST Dispensing	HP2375UD	TOLUENE	1.763E+00	1.389E+01	
HP-S972-01A AST Dispensing	HPS9721D	TOLUENE	1.763E+00	3.474E+02	
PG-STP-446-02A AST Dispensing	PG4462AD	TOLUENE	1.763E+00	1.158E+01	
PP-1932-02U UST Dispensing	PP19322D	TOLUENE	1.763E+00	5.790E+00	
PP-820-01U UST Dispensing	PP8201UD	TOLUENE	1.763E+00	5.790E+01	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
PP-820-02U UST Dispensing	PP8202UD	TOLUENE	1.763E+00	5.790E+01	
PP-820-03U UST Dispensing	PP8203UD	TOLUENE	1.763E+00	5.790E+01	
TT-69-01U UST Dispensing	TT6901UD	TOLUENE	1.763E+00	5.790E+00	
A-FC-18-01 Landfill	FC1801	VINYL CHLORIDE			2.203E+04
A-HP-982-01 Landfill	HP98201	VINYL CHLORIDE			2.396E+04
Y-HP-1613-01A AST	HP161301	XYLENE	5.609E-01	1.388E+01	
Y-HP-1613-02A AST	HP161302	XYLENE	5.609E-01	1.388E+01	
Y-HP-1613-03A AST	HP161303	XYLENE	5.609E-01	1.388E+01	
Y-HP-961-01A AST	HP96101	XYLENE	1.357E-02	3.367E-01	
Y-HP-961-02A AST	HP96102	XYLENE	1.357E-02	3.367E-01	
Y-HP-961-07A AST	HP96107A	XYLENE	4.062E-03	1.272E-02	
LCH-4034-1 AST	LCH40341	XYLENE	6.470E-01	1.599E+01	
LCH-4034-2 AST	LCH40342	XYLENE	1.617E+00	4.008E+01	
LCH-4034-3 AST	LCH40343	XYLENE	5.152E-01	1.275E+01	
Y-HP-STP446-02A AST	STP44602	XYLENE	1.722E-03	4.263E-02	
A-FC-280-10 Paint booth	FC28010	XYLENE	2.165E+02	6.667E+02	
A-FC-286-12 Paint booth	FC28612	XYLENE	7.135E+02	8.817E+03	
A-FC-286-13 Paint booth	FC28613	XYLENE	7.135E+02	8.817E+03	
A-FC-286-20 Paint booth	FC28620	XYLENE	7.135E+02	8.817E+03	
A-HP-1016-01 Paint booth	HP101601	XYLENE	7.931E+00	5.028E+01	
A-HP-1041-01 Paint booth	HP104101	XYLENE	2.296E+01	9.436E+01	
A-HP-1202-78 Paint booth	HP120278	XYLENE	1.617E+02	1.337E+03	
A-HP-1249-03 Paint booth	HP124903	XYLENE	2.061E+03	8.453E+03	
A-HP-908-01 Paint booth at Hazmart	HP90801	XYLENE	1.591E+01	3.268E+01	
A-HP-S-1124-01 Paint booth	S112401	XYLENE	6.157E+00	5.028E+01	
A-BM-820-05 Remediation	BM82005	XYLENE	4.931E-02	1.217E+00	
A-HP-1068-01 Remediation	HP106801	XYLENE	6.479E-02	1.601E+00	
A-HP-45-05 Remediation	HP4505	XYLENE	4.319E-03	1.068E-01	
A-HP-645-03 Remediation	HP64503	XYLENE	4.135E+02	1.020E+04	
A-LCH-4015-Remediation	LCH4015	XYLENE	1.878E-02	4.627E-01	
1232-1 UST	12321	XYLENE	5.609E-01	1.388E+01	
1232-2 UST	12322	XYLENE	5.609E-01	1.388E+01	
1232-3 UST	12323	XYLENE	5.609E-01	1.388E+01	
1232-4 UST	12324	XYLENE	5.609E-01	1.388E+01	
31/S-715-N-UST	31S715N	XYLENE	8.505E-04	2.102E-02	
FC-200-4 UST	FC20004	XYLENE	9.170E-04	2.266E-02	
FC-298-1 UST	FC2981	XYLENE	2.244E-03	5.538E-02	
FC-298-2 UST	FC2982	XYLENE	2.244E-03	5.538E-02	
FC-298-3 UST	FC2983	XYLENE	2.244E-03	5.538E-02	
TT-2478-1 UST	TT247801	XYLENE	6.913E-02	1.709E+00	
TT-2478-2 UST	TT247802	XYLENE	6.913E-02	1.709E+00	
TT-2478-3 UST	TT247803	XYLENE	6.913E-02	1.709E+00	
Y-NH-118-01A AST	NH11801	XYLENE	3.744E-02	9.254E-01	
FC-195-01U UST	FC19501U	XYLENE	7.230E-03	1.575E-01	
FC-241-01A AST	FC24101A	XYLENE	2.622E-01	6.485E+00	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
HP-30-01U UST	HP3001U	XYLENE	6.712E-03	1.468E-01	
HP-HP100-05U UST	HP10005U	XYLENE	1.775E-04	4.387E-03	
HP-HP237-05U UST	HP23705U	XYLENE	1.344E-03	3.323E-02	
HP-S972-01A AST	HPS9721A	XYLENE	4.097E-03	1.013E-01	
PG-STP-446-02A AST	PG44602A	XYLENE	1.035E-03	2.559E-02	
PP-1932-02U UST	PP19322U	XYLENE	6.712E-03	1.468E-01	
PP-820-01U UST	PP82001U	XYLENE	4.670E-02	1.155E+00	
PP-820-02U UST	PP82002U	XYLENE	4.670E-02	1.155E+00	
PP-820-03U UST	PP82003U	XYLENE	4.670E-02	1.155E+00	
TT-69-01U UST	TT6901U	XYLENE	1.479E-04	3.656E-03	
A-FC-18-01 Landfill	FC1801	XYLENE	2.048E+01	5.064E+02	
A-FC-440-01 WWT	FC44001	XYLENE	8.539E-03	2.111E-01	
A-HP-1202-01 Paint gun washer	HP120201	XYLENE	1.644E+01	1.352E+02	
A-HP-1249-02 Paint gun washer	HP124902	XYLENE	1.644E+01	1.352E+02	
A-HP-982-01 Landfill	HP98201	XYLENE	1.670E+01	4.117E+02	
Y-NH-118-01AD UST Dispensing	NH1181AD	XYLENE	1.361E+00	1.402E+01	
1232-1D Dispensing	12321D	XYLENE	1.361E+00	1.682E+01	
1232-2D Dispensing	12322D	XYLENE	1.361E+00	1.682E+01	
1232-3D Dispensing	12323D	XYLENE	1.361E+00	1.682E+01	
1232-4D Dispensing	12324D	XYLENE	1.361E+00	1.682E+01	
31/S-715-ND UST Dispensing	31S715ND	XYLENE	6.610E-02	1.375E-01	
FC-200-4D Dispensing	FC2004D	XYLENE	6.610E-02	1.375E-01	
FC-298-1D Dispensing	FC2981D	XYLENE	1.361E+00	1.402E+01	
FC-298-2D Dispensing	FC2982D	XYLENE	1.361E+00	1.402E+01	
FC-298-3D Dispensing	FC2983D	XYLENE	1.361E+00	1.402E+01	
LC-4034-1D Dispensing	LC40341D	XYLENE	1.361E+00	1.402E+01	
LC-4034-2D Dispensing	LC40342D	XYLENE	1.361E+00	1.402E+01	
LC-4034-3D Dispensing	LC40343D	XYLENE	1.361E+00	1.402E+01	
TT-2478-1D Dispensing	TT24781D	XYLENE	1.361E+00	1.402E+01	
TT-2478-2D Dispensing	TT24782D	XYLENE	1.361E+00	1.402E+01	
TT-2478-3D Dispensing	TT24783D	XYLENE	1.361E+00	1.402E+01	
Y-HP-1613-01AD Dispensing	H16131AD	XYLENE	1.361E+00	1.682E+01	
Y-HP-1613-02AD Dispensing	H16132AD	XYLENE	1.361E+00	1.682E+01	
Y-HP-1613-03AD Dispensing	H16133AD	XYLENE	1.361E+00	1.682E+01	
Y-HP-961-01AD Dispensing	HP9611AD	XYLENE	1.361E+00	2.103E+01	
Y-HP-961-02AD Dispensing	HP9612AD	XYLENE	1.361E+00	2.103E+01	
Y-HP-S971-01AD Dispensing	S97101AD	XYLENE	1.826E+00	4.518E+01	
FC-195-01U UST Dispensing	FC1951UD	XYLENE	1.361E+00	8.410E+00	
FC-241-01A AST Dispensing	FC2411AD	XYLENE	1.361E+00	1.051E+01	
HP-30-01U UST Dispensing	HP3001UD	XYLENE	1.361E+00	1.402E+00	
HP-HP100-05U UST Dispensing	HP1005UD	XYLENE	1.361E+00	2.803E+00	
HP-HP237-05U UST Dispensing	HP2375UD	XYLENE	1.361E+00	3.364E+00	
HP-S972-01A AST Dispensing	HPS9721D	XYLENE	1.361E+00	8.410E+01	
PG-STP-446-02A AST Dispensing	PG4462AD	XYLENE	1.361E+00	2.803E+00	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
PP-1932-02U UST Dispensing	PP19322D	XYLENE	1.361E+00	1.402E+00	
PP-820-01U UST Dispensing	PP8201UD	XYLENE	1.361E+00	1.402E+01	
PP-820-02U UST Dispensing	PP8202UD	XYLENE	1.361E+00	1.402E+01	
PP-820-03U UST Dispensing	PP8203UD	XYLENE	1.361E+00	1.402E+01	
TT-69-01U UST Dispensing	TT6901UD	XYLENE	1.361E+00	1.402E+00	

Table B-7. Allowable Emission Rates for Zone B

Source Description	Model ID	Pollutant	Emissions (lbs)		
			Hourly	Daily	Annual
BB-177-01U	BB17701	BENZENE			1.891E+01
BB-177-02U	BB17702	BENZENE			1.891E+01
BB-177-03U	BB17703	BENZENE			1.891E+01
Y-BB-246-01A	BB24601	BENZENE			6.182E+00
BA-134-01A	BA13401	BENZENE			3.220E+00
BB-102-01A	BB10201	BENZENE			2.400E-01
Y-BB-246-01AD	BB24601D	BENZENE			1.001E+00
BA-134-01AD	BA13401D	BENZENE			2.573E-01
BB-102-01AD	BB10201D	BENZENE			1.286E-01
BB-177-01UD	BB17701D	BENZENE			6.610E+00
BB-177-02UD	BB17702D	BENZENE			6.610E+00
BB-177-03UD	BB17703D	BENZENE			6.610E+00

Table B-7. Allowable Emission Rates for Zone C

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
AS-4135-2 AST	AS41352	BENZENE			2.533E+01
AS-143-01 AST	AS14301	BENZENE			1.850E+02
C-AS-139-01 Remediation	CAS13901	BENZENE			9.009E+01
C-AS-255-01 Paint Booth	CAS25501	BENZENE			3.877E-01
C-AS-4158-04 Remediation	CAS41584	BENZENE			9.625E+02
C-AS-504-04 Paint Booth	CAS50404	BENZENE			3.877E-01
Y-CG-FUEL-01A AST	CGFUEL1	BENZENE			1.592E-02
Y-CG-FUEL-02A AST	CGFUEL2	BENZENE			6.872E-02
Y-CG-FUEL-03A AST	CGFUEL3	BENZENE			1.592E-02
Y-RR-15-04A AST	YRR1504	BENZENE			1.143E+03
AS-2800-01A AST	AS28001	BENZENE			5.030E+00
AS-2820-01A AST	AS28201	BENZENE			3.376E+00
AS-410-01U UST	AS4101	BENZENE			5.130E+01
AS-410-02U UST	AS4102	BENZENE			3.869E+01
AS-410-03U UST	AS4103	BENZENE			3.923E+01
CG-TC365-04A AST	CGTC3654	BENZENE			3.514E+02
C-AS-4146-1D UST Dispensing	AS41461D	BENZENE			4.471E+01

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
C-RR-15-04D AST Dispensing	CRR1504D	BENZENE			1.150E+02
AS-143-D Dispensing	AS143D	BENZENE			1.343E+01
AS-4135-2-D Dispensing	AS41352D	BENZENE			8.261E-02
Y-AS-2818-01A-D Dispensing	AS28181D	BENZENE			2.423E-01
Y-CG-FUEL-01A-D Dispensing	CGFUEL1D	BENZENE			5.639E-03
Y-CG-FUEL-02A-D Dispensing	CGFUEL2D	BENZENE			2.423E-02
Y-CG-FUEL-03A-D Dispensing	CGFUEL3D	BENZENE			5.639E-03
AS-2800-01A AST Dispensing	AS28001D	BENZENE			2.213E-01
AS-2820-01A AST Dispensing	AS28201D	BENZENE			1.549E+00
AS-410-01U UST Dispensing	AS4101UD	BENZENE			2.052E+01
AS-410-02U UST Dispensing	AS4102UD	BENZENE			2.052E+01
AS-410-03U UST Dispensing	AS4103UD	BENZENE			2.052E+01
CG-TC365-04A AST Dispensing	CGT3654AD	BENZENE			5.749E+01
C-AS-255-01 Paint Booth	CAS25501	BIOAVAILABLE CHROMIUM PIGMENTS			2.347E-01
C-AS-3900-01 Paint Booth	CAS39001	BIOAVAILABLE CHROMIUM PIGMENTS			2.135E+00
C-AS-3900-02 Paint Booth	CAS39002	BIOAVAILABLE CHROMIUM PIGMENTS			1.282E+00
C-AS-4106-01 Paint Booth	CAS41061	BIOAVAILABLE CHROMIUM PIGMENTS			3.662E-01
C-AS-4135-01 Paint Booth	CAS41351	BIOAVAILABLE CHROMIUM PIGMENTS			1.470E+00
C-AS-4146-01 Paint Booth	CAS41461	BIOAVAILABLE CHROMIUM PIGMENTS			4.892E-01
C-AS-504-04 Paint Booth	CAS50404	BIOAVAILABLE CHROMIUM PIGMENTS			2.446E-01
C-AS-518-12 Paint Booth	CAS51812	BIOAVAILABLE CHROMIUM PIGMENTS			7.323E-01
C-AS-116-01 Paint Booth	CAS11601	CADMIUM			3.308E+02
C-AS-4146-01 Paint Booth	CAS41461	CARBON TETRACHLORIDE			6.189E+05
C-AS-4158-04 Remediation	CAS41584	CARBON TETRACHLORIDE			2.315E+04
C-AS-255-01 Paint Booth	CAS25501	DI(2-ETHYLHEXYL) PHTHALATE		6.657E+01	
C-AS-4146-01 Paint Booth	CAS41461	EPICHLOROHYDRI N			7.923E+06
C-RR-430-03 Welding - MARSOC	CRR43003	MANGANESE		2.775E+00	
C-RR-455-01 Welding - MARSOC	CRR45501	MANGANESE		2.775E+00	
C-AS-114-02 Welding	CAS1142	MANGANESE		1.733E+00	
C-AS-122-01 Welding	CAS1221	MANGANESE		1.347E+01	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
C-AS-4106-06 Welding	CAS41066	MANGANESE		1.789E+02	
C-AS-4135-02 Welding	CAS41352	MANGANESE		1.347E+01	
C-AS-4146-06 Welding	AS41466	MANGANESE		4.341E+01	
C-AS-4158-01 Welding	CAS41581	MANGANESE		1.347E+01	
C-AS-518-01 Welding	CAS5181	MANGANESE		1.504E+01	
C-RR-11-02 Welding	CRR1102	MANGANESE		1.789E+00	
C-AS-116-01 Paint Booth	CAS11601	METHYL ETHYL KETONE (MEK)	2.026E+02	1.400E+03	
C-AS-255-01 Paint Booth	CAS25501	METHYL ETHYL KETONE (MEK)	4.944E+02	8.535E+02	
C-AS-3900-01 Paint Booth	CAS39001	METHYL ETHYL KETONE (MEK)	1.238E+03	1.704E+04	
C-AS-3900-02 Paint Booth	CAS39002	METHYL ETHYL KETONE (MEK)	3.707E+02	5.127E+03	
C-AS-4106-01 Paint Booth	CAS41061	METHYL ETHYL KETONE (MEK)	2.469E+02	2.556E+03	
C-AS-4135-01 Paint Booth	CAS41351	METHYL ETHYL KETONE (MEK)	2.469E+02	1.704E+03	
C-AS-4146-01 Paint Booth	CAS41461	METHYL ETHYL KETONE (MEK)	2.469E+02	3.424E+03	
C-AS-504-04 Paint Booth	CAS50404	METHYL ETHYL KETONE (MEK)	2.469E+02	4.276E+03	
C-AS-518-12 Paint Booth	CAS51812	METHYL ETHYL KETONE (MEK)	3.707E+02	5.127E+03	
C-AS-4106-06 Welding	CAS41066	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
C-AS-4135-02 Welding	CAS41352	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
C-AS-4135-03 Paint Gun Washer	CAS41353	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
C-AS-4146-06 Welding	AS41466	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
C-AS-4158-01 Welding	CAS41581	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
AS-143-D Dispensing	AS143D	METHYL ETHYL KETONE (MEK)	2.285E+00	3.150E+01	
C-AS-116-01 Paint Booth	CAS11601	METHYL ISOBUTYL KETONE (MIBK)	2.747E+02	3.886E+03	
C-AS-255-01 Paint Booth	CAS25501	METHYL ISOBUTYL KETONE (MIBK)	1.676E+02	5.902E+02	
C-AS-3900-01 Paint Booth	CAS39001	METHYL ISOBUTYL KETONE (MIBK)	4.187E+02	1.182E+04	
C-AS-3900-02 Paint Booth	CAS39002	METHYL ISOBUTYL KETONE (MIBK)	1.259E+02	3.545E+03	
C-AS-4106-01 Paint Booth	CAS41061	METHYL ISOBUTYL KETONE (MIBK)	8.345E+01	1.772E+03	
C-AS-4135-01 Paint Booth	CAS41351	METHYL ISOBUTYL KETONE (MIBK)	8.345E+01	1.182E+03	
C-AS-4146-01 Paint Booth	CAS41461	METHYL ISOBUTYL KETONE (MIBK)	8.345E+01	2.358E+03	
C-AS-504-04 Paint Booth	CAS50404	METHYL ISOBUTYL KETONE (MIBK)	8.345E+01	2.959E+03	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
C-AS-518-12 Paint Booth	CAS51812	METHYL ISOBUTYL KETONE (MIBK)	1.259E+02	3.545E+03	
C-AS-4106-06 Welding	CAS41066	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
C-AS-4135-02 Welding	CAS41352	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
C-AS-4135-03 Paint Gun Washer	CAS41353	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
C-AS-4146-06 Welding	AS41466	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
C-AS-4158-01 Welding	CAS41581	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
AS-143-D Dispensing	AS143D	METHYL ISOBUTYL KETONE (MIBK)	4.347E-01	1.226E+01	
C-AS-116-01 Paint Booth	CAS11601	NICKEL METAL		2.539E+01	
C-AS-255-01 Paint Booth	CAS25501	NICKEL METAL		3.702E+00	
C-AS-3900-01 Paint Booth	CAS39001	NICKEL METAL		7.404E-02	
C-AS-3900-02 Paint Booth	CAS39002	NICKEL METAL		7.404E-03	
C-AS-4146-01 Paint Booth	CAS41461	NICKEL METAL		3.702E+00	
C-AS-504-04 Paint Booth	CAS50404	NICKEL METAL		3.702E+00	
C-AS-518-12 Paint Booth	CAS51812	NICKEL METAL		2.113E-04	
C-RR-430-03 Welding - MARSOC	CRR43003	NICKEL METAL		4.642E-03	
C-RR-455-01 Welding - MARSOC	CRR45501	NICKEL METAL		4.274E-06	
C-AS-114-02 Welding	CAS1142	NICKEL METAL		4.620E-03	
C-AS-122-01 Welding	CAS1221	NICKEL METAL		3.833E+00	
C-AS-4106-06 Welding	CAS41066	NICKEL METAL		1.001E+00	
C-AS-4135-02 Welding	CAS41352	NICKEL METAL		3.833E+00	
C-AS-4146-06 Welding	AS41466	NICKEL METAL		6.002E+00	
C-AS-4158-01 Welding	CAS41581	NICKEL METAL		6.192E+00	
C-AS-518-01 Welding	CAS5181	NICKEL METAL		2.998E-01	
C-RR-11-02 Welding	CRR1102	NICKEL METAL		4.620E-03	
C-AS-116-01 Paint Booth	CAS11601	NON-SPECIFIC CHROMIUM VI COMPOUNDS			9.464E-01
C-AS-255-01 Paint Booth	CAS25501	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.110E-01
C-AS-3900-01 Paint Booth	CAS39001	NON-SPECIFIC CHROMIUM VI COMPOUNDS			2.019E+00
C-AS-3900-02 Paint Booth	CAS39002	NON-SPECIFIC CHROMIUM VI COMPOUNDS			6.070E-01
C-AS-4106-01 Paint Booth	CAS41061	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.734E-01
C-AS-4135-01 Paint Booth	CAS41351	NON-SPECIFIC CHROMIUM VI COMPOUNDS			9.242E-01

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
C-AS-4146-01 Paint Booth	CAS41461	NON-SPECIFIC CHROMIUM VI COMPOUNDS			2.317E-01
C-AS-504-04 Paint Booth	CAS50404	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.156E-01
C-AS-518-12 Paint Booth	CAS51812	NON-SPECIFIC CHROMIUM VI COMPOUNDS			3.469E-01
C-RR-430-03 Welding - MARSOC	CRR43003	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.544E-04
C-RR-455-01 Welding - MARSOC	CRR45501	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.544E-04
C-AS-122-01 Welding	CAS1221	NON-SPECIFIC CHROMIUM VI COMPOUNDS			2.267E-03
C-AS-4135-02 Welding	CAS41352	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.096E+00
C-AS-4146-06 Welding	AS41466	NON-SPECIFIC CHROMIUM VI COMPOUNDS			2.200E-02
C-AS-4158-01 Welding	CAS41581	NON-SPECIFIC CHROMIUM VI COMPOUNDS			1.883E-02
C-AS-518-01 Welding	CAS5181	NON-SPECIFIC CHROMIUM VI COMPOUNDS			3.778E-01
C-AS-4146-01 Paint Booth	CAS41461	PERCHLOROETHYL ENE			1.813E+07
AS-4135-2 AST	AS41352	TOLUENE	1.941E-02	2.991E-01	
AS-143-01 AST	AS14301	TOLUENE	2.467E-02	2.171E+00	
C-AS-116-01 Paint Booth	CAS11601	TOLUENE	8.143E+02	1.104E+04	
C-AS-139-01 Remediation	CAS13901	TOLUENE	3.507E-04	3.086E-02	
C-AS-255-01 Paint Booth	CAS25501	TOLUENE	3.128E+02	1.149E+03	
C-AS-3900-01 Paint Booth	CAS39001	TOLUENE	7.821E+02	2.120E+04	
C-AS-3900-02 Paint Booth	CAS39002	TOLUENE	2.346E+02	6.895E+03	
C-AS-4106-01 Paint Booth	CAS41061	TOLUENE	1.564E+02	3.448E+03	
C-AS-4135-01 Paint Booth	CAS41351	TOLUENE	1.564E+02	2.305E+03	
C-AS-4146-01 Paint Booth	CAS41461	TOLUENE	1.564E+02	4.591E+03	
C-AS-4158-04 Remediation	CAS41584	TOLUENE	2.153E-02	1.101E+00	
C-AS-504-04 Paint Booth	CAS50404	TOLUENE	1.564E+02	5.275E+03	
C-AS-518-12 Paint Booth	CAS51812	TOLUENE	2.346E+02	6.895E+03	
Y-CG-FUEL-01A AST	CGFUEL1	TOLUENE	2.145E-05	1.886E-03	
Y-CG-FUEL-02A AST	CGFUEL2	TOLUENE	7.684E-05	6.762E-03	
Y-CG-FUEL-03A AST	CGFUEL3	TOLUENE	2.145E-05	1.886E-03	
Y-RR-15-04A AST	YRR1504	TOLUENE	1.500E-01	1.318E+01	
AS-2800-01A AST	AS28001	TOLUENE	4.996E-04	2.565E-02	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
AS-2820-01A AST	AS28201	TOLUENE	3.384E-04	1.737E-02	
AS-410-01U UST	AS4101	TOLUENE	3.876E-03	2.718E-01	
AS-410-02U UST	AS4102	TOLUENE	3.876E-03	1.990E-01	
AS-410-03U UST	AS4103	TOLUENE	3.876E-03	1.990E-01	
CG-TC365-04A AST	CGTC3654	TOLUENE	5.441E+00	2.793E+02	
C-AS-4146-1D UST Dispensing	AS41461D	TOLUENE	7.055E-03	6.210E-01	
C-RR-15-04D AST Dispensing	CRR1504D	TOLUENE	3.705E-01	1.594E+00	
AS-143-D Dispensing	AS143D	TOLUENE	3.705E-01	1.359E+01	
AS-4135-2-D Dispensing	AS41352D	TOLUENE	3.705E-01	1.424E-01	
Y-AS-2818-01A-D Dispensing	AS28181D	TOLUENE	1.941E-02	1.424E-01	
Y-CG-FUEL-01A-D Dispensing	CGFUEL1D	TOLUENE	7.595E-06	6.686E-04	
Y-CG-FUEL-02A-D Dispensing	CGFUEL2D	TOLUENE	2.717E-05	2.400E-03	
Y-CG-FUEL-03A-D Dispensing	CGFUEL3D	TOLUENE	7.595E-06	6.686E-04	
AS-2800-01A AST Dispensing	AS28001D	TOLUENE	3.705E-01	6.796E-01	
AS-2820-01A AST Dispensing	AS28201D	TOLUENE	3.705E-01	4.757E+00	
AS-410-01U UST Dispensing	AS4101UD	TOLUENE	3.705E-01	5.437E+00	
AS-410-02U UST Dispensing	AS4102UD	TOLUENE	3.705E-01	5.437E+00	
AS-410-03U UST Dispensing	AS4103UD	TOLUENE	3.705E-01	5.437E+00	
CG-TC365-04A AST Dispensing	CGT3654AD	TOLUENE	3.705E-01	1.359E+01	
C-AS-3900-01 Paint Booth	CAS39001	TOLUENE DIISOCYANATE, 2,4-		1.777E+00	
C-AS-3900-02 Paint Booth	CAS39002	TOLUENE DIISOCYANATE, 2,4-		2.400E-01	
C-AS-4146-01 Paint Booth	CAS41461	TOLUENE DIISOCYANATE, 2,4-		6.019E-02	
C-AS-518-12 Paint Booth	CAS51812	TOLUENE DIISOCYANATE, 2,4-		1.804E-01	
C-AS-4146-01 Paint Booth	CAS41461	TRICHLOROFLUOR OMETHANE	2.713E+04		
AS-4135-2 AST	AS41352	XYLENE	3.331E-03	2.514E-02	
AS-143-01 AST	AS14301	XYLENE	4.151E-03	1.832E-01	
C-AS-116-01 Paint Booth	CAS11601	XYLENE	8.686E+02	5.400E+03	
C-AS-139-01 Remediation	CAS13901	XYLENE	3.992E-03	1.764E-01	
C-AS-255-01 Paint Booth	CAS25501	XYLENE	3.604E+02	6.914E+02	
C-AS-3900-01 Paint Booth	CAS39001	XYLENE	8.991E+02	1.119E+04	
C-AS-3900-02 Paint Booth	CAS39002	XYLENE	2.818E+02	4.152E+03	
C-AS-4106-01 Paint Booth	CAS41061	XYLENE	1.873E+02	2.076E+03	
C-AS-4135-01 Paint Booth	CAS41351	XYLENE	1.873E+02	1.381E+03	
C-AS-4146-01 Paint Booth	CAS41461	XYLENE	1.873E+02	2.237E+03	
C-AS-4158-04 Remediation	CAS41584	XYLENE	5.413E-03	2.415E-01	
C-AS-504-04 Paint Booth	CAS50404	XYLENE	1.873E+02	3.448E+03	
C-AS-518-12 Paint Booth	CAS51812	XYLENE	2.818E+02	4.152E+03	

Source Description	Model ID	Pollutant	Emissions (lb)		
			Hourly	Daily	Annual
Y-CG-FUEL-01A AST	CGFUEL1	XYLENE	3.206E-05	1.415E-03	
Y-CG-FUEL-02A AST	CGFUEL2	XYLENE	2.952E-05	1.305E-03	
Y-CG-FUEL-03A AST	CGFUEL3	XYLENE	3.206E-05	1.415E-03	
Y-RR-15-04A AST	YRR1504	XYLENE	2.468E-02	1.091E+00	
AS-2800-01A AST	AS28001	XYLENE	7.605E-05	3.360E-03	
AS-2820-01A AST	AS28201	XYLENE	5.704E-05	2.520E-03	
AS-410-01U UST	AS4101	XYLENE	8.327E-04	3.756E-02	
AS-410-02U UST	AS4102	XYLENE	6.298E-04	2.783E-02	
AS-410-03U UST	AS4103	XYLENE	6.298E-04	2.798E-02	
CG-TC365-04A AST	CGTC3654	XYLENE	2.663E-01	1.177E+01	
C-AS-4146-1D UST Dispensing	AS41461D	XYLENE	1.159E-03	5.124E-02	
C-RR-15-04D AST Dispensing	CRR1504D	XYLENE	2.187E-01	1.318E-01	
AS-143-D Dispensing	AS143D	XYLENE	2.187E-01	4.021E+00	
AS-4135-2-D Dispensing	AS41352D	XYLENE	2.187E-01	4.021E-01	
Y-AS-2818-01A-D Dispensing	AS28181D	XYLENE	3.333E-03	1.225E-02	
Y-CG-FUEL-01A-D Dispensing	CGFUEL1D	XYLENE	1.135E-05	5.010E-04	
Y-CG-FUEL-02A-D Dispensing	CGFUEL2D	XYLENE	4.166E-04	1.149E-03	
Y-CG-FUEL-03A-D Dispensing	CGFUEL3D	XYLENE	1.135E-05	5.010E-04	
AS-2800-01A AST Dispensing	AS28001D	XYLENE	2.187E-01	2.010E-01	
AS-2820-01A AST Dispensing	AS28201D	XYLENE	2.187E-01	1.407E+00	
AS-410-01U UST Dispensing	AS4101UD	XYLENE	2.187E-01	1.608E+00	
AS-410-02U UST Dispensing	AS4102UD	XYLENE	2.187E-01	1.608E+00	
AS-410-03U UST Dispensing	AS4103UD	XYLENE	2.187E-01	1.608E+00	
CG-TC365-04A AST Dispensing	CGT3654AD	XYLENE	2.187E-01	4.021E+00	

B. The following sources:**Table 2.2.B.1**

Emission Source	Source Description	Control Device	Control Device Description
C-RR-400-05	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-405-01	Diesel-fired Emergency Generator (2144 HP/1600 kW)	N/A	N/A
C-RR-430-04	Diesel-fired Emergency Generator (804 HP/600 kW)	N/A	N/A
C-RR-425-01	Diesel-fired Emergency Generator (1675 HP/1250 kW)	N/A	N/A
C-RR-440-01	Diesel-fired Emergency Generator (268 HP/200 kW)	N/A	N/A
C-RR-134-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
C-SRR-470-01	Diesel-fired Emergency Generator (536 HP/400 kW)	N/A	N/A
C-RR-430-01	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	N/A	N/A
C-RR-430-02	Test Station for As-installed Boat Outboard Gasoline-fired Internal Combustion Engine not to exceed 55 HP	N/A	N/A

1. 15A NCAC 02Q .0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

- a. In order to avoid applicability of 15A NCAC 02D .0530 (g) for major sources and major modifications, the **sources in Table 2.2.B.1**, shall discharge into the atmosphere less than 40 tons of nitrogen oxides total, per consecutive 12-month period. [15A NCAC 02D .0530]

Testing [15A NCAC 02D .2601]

- b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in condition a., the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Operational Limits [15A NCAC 2Q .0508(f)]

- c. In order to ensure compliance with the above avoidance limit, the following operational limits shall apply:
- the Permittee shall limit the operation of the emergency generators in Table 2.2.B.1 to less than 350 hours per consecutive 12 month period, each; and
 - the Permittee shall limit the operation of the two test tanks in Table 2.2.B.1 to less than 180 hours per consecutive 12 month period, each.

Recordkeeping Requirements [15A NCAC 2Q .0508(f)]

- d. In order to ensure the enforceability of the operational limits set forth above, the Permittee shall maintain the following records:
- the hours of operation of each source listed in Table 2.2.B.1.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.

Reporting Requirements [15A NCAC 2Q .0508(f)]

- e. The Permittee shall submit a summary report of the recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified. The report shall contain the following:
- the monthly hours of operation for each source listed in Table 2.2.B.1 for the previous 17 months;
 - the total hours of operation for each source listed in Table 2.2.B.1 calculated for each of the 12-month periods over the previous 17 months;
 - the total monthly nitrogen oxide emissions from the sources listed in Table 2.2.B.1 for the previous 17 months; and

- iv. the total nitrogen oxide emissions from the sources listed in Table 2.2.B.1 calculated for each of the 12-month periods over the previous 17 months.

C. All applicable sources

1. **15A NCAC 2D .1111, 40 CFR Part 63, Subpart ZZZZ “National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines (RICE)**
 - a. The permittee shall submit a permit application demonstrating compliance with this rule by May 3, 2013 for all affected existing RICE. An affected existing RICE is defined in 40 CFR 63.6590.

D. Four No. 2 fuel oil-fired boilers (114.5 million Btu per hour heat input capacity each, ID Nos. A-HP-1700-01 thru A-HP-1700-04), located at Building HP-1700, Main Steam Plant; One No. 2 fuel oil/natural gas-fired boiler (95.0 million Btu per hour maximum heat input capacity, ID No. A-HP-1700-05, NSPS) with associated flue gas re-circulation system located at the Main Steam Plant; Two No. 2 fuel oil/natural gas-fired boilers (50.0 million Btu per hour heat input capacity each, ID Nos. C-CG-650-83B and C-CG-650-84B, NSPS) located at Camp Geiger; One No. 2 fuel oil/natural gas-fired boiler (31.6 million Btu per hour maximum Btu per hour heat input capacity, ID No. C-CG-650-85, NSPS) located at Camp Geiger; One No. 2 fuel oil-fired, “water tube design”, replacement boiler, (26.0 million Btu per hour heat input capacity, ID No. B-BB-9-53B, NSPS) and one No. 2 fuel oil-fired boiler (18.4 million Btu per hour heat input capacity, ID No. B-BB-9-55, NSPS) located in the Court House Bay Area; One No. 2 fuel oil-fired boiler (25.1 million Btu heat input capacity, ID No. B-BB-9-54) located in the Court House Bay Area; Two No. 2 fuel oil-fired replacement boilers (10.5 million Btu heat input capacity each, ID Nos. C-RR-15-46B and C-RR-15-47B, NSPS) located at the Rifle Range; Three No. 2 fuel oil/natural gas-fired boilers (29.94 million Btu heat input capacity each, ID Nos. A-MP-625-72, A-MP-625-73, and A-MP-625-74) located at Montford Point; Three No. 2 fuel oil/JP-5/JP-8/natural gas-fired boilers (48.0 million Btu per hour Btu per hour heat input capacity, ID No. C-AS-4151-16, C-AS-4151-17A, and C-AS-4151-18, NSPS) located at the Air Station; and Two No. 2 fuel oil/natural gas-fired boilers (14.645 million Btu per hour maximum heat input capacity each, ID Nos. A-NH-100-01 and A-NH-100-02) located at the Naval Hospital.

1. 15A NCAC 2D .1109: CAA § 112(j); Case-by-Case MACT

- a. Pursuant to 15A NCAC 2D .1109 and in accordance with the approved application for an Air Toxics Risk Assessment, the following emissions limitations in Table 2.2 D.1. below shall not be exceeded:

Table 2.2 D.1.

Permitted Source ID No.	Optimized HCl-equivalent Emission Limit (lb/hr)	Optimized Hg Emission Limit (lb/hr)
A-HP-1700-1	1.03E+03	3.96E-02
A-HP-1700-2	1.03E+03	3.96E-02
A-HP-1700-3	7.72E+02	4.88E-02
A-HP-1700-4	7.72E+02	4.88E-02
C-AS-4151-16	6.64E+00	2.88E-03
C-AS-4151-17A	6.64E+00	2.88E-03
C-AS-4151-18	6.64E+00	2.88E-03
B-BB-9-53B	3.60E+00	1.56E-03
B-BB-9-54	3.48E+00	1.51E-03
B-BB-9-55	2.53E+00	1.10E-03
C-CG-650-83B	6.90E+00	3.00E-03
C-CG-650-84B	6.90E+00	3.00E-03
C-CG-650-85	4.37E+00	1.90E-03
A-HP-1700-5	1.31E+01	5.70E-03
A-MP-625-72	4.13E+00	1.80E-03
A-MP-625-73	4.13E+00	1.80E-03
A-MP-625-74	4.13E+00	1.80E-03
A-NH-100-01	2.02E+00	8.78E-04
A-NH-100-02	2.02E+00	8.78E-04
C-RR-15-46B	1.59E+00	6.30E-04
C-RR-15-47B	1.59E+00	6.30E-04

- b. The Permittee shall use best combustion practices when operating the affected boilers above. The initial compliance date for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements is **DATE – 3 years after permit issuance**. These conditions need not be included on the annual compliance certification until after the initial compliance date.

Work Practice Standards [15A NCAC 2Q .0508(f)]

- c. To assure compliance, the Permittee shall perform an annual boiler inspections and maintenance as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
 - i. Inspect the burner, and clean or replace any components of the burner as necessary;
 - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,
 - iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.

The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the affected boilers are not inspected and maintained as required above.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
 - i. The date of each recorded action;
 - ii. The results of each inspection; and,
 - iii. The results of any maintenance performed on the boilers.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. No reporting is required for hazardous air pollutants from the firing of No. 2 fuel, JP-5, JP-8 or natural gas, respectively as permitted in the above boilers.

E. ALL propane, natural gas, and No. 2 fuel oil-fired boilers (less than 10.0 million Btu per hour) and process heaters

1. 15A NCAC 2D .1109: CAA § 112(j); Case-by-Case MACT for Boilers & Process Heaters

- a. Pursuant to 15A NCAC 2D .1109 and in accordance with the approved application for an Air Toxics Risk Assessment, the following emissions limitations in Table 2.2 E.1. below shall not be exceeded:

Table 2.2 E.1.

Permitted Source ID No.	Optimized HCl-equivalent Emission Limit (lb/hr)	Optimized Hg Emission Limit (lb/hr)
B-A66-48	9.82E-02	3.90E-05
B-A66-H3	2.42E-01	9.60E-05
B-A71-49	1.36E-01	5.40E-05
B-A71-H5	4.09E-02	1.62E-05
C-AS-1000-20	7.88E-02	3.12E-05
C-AS-1000-H21	6.04E-02	2.40E-05
C-TC-1500-60	3.46E-01	1.37E-04
C-AS-2800-12	6.79E-02	2.70E-05
C-AS-3502-08	8.85E-02	3.52E-05
C-AS-3504-09	5.92E-02	2.36E-05
C-AS-3525-15	7.95E-02	3.16E-05
C-AS-705-11	1.26E+00	5.02E-04

Permitted Source ID No.	Optimized HCl-equivalent Emission Limit (lb/hr)	Optimized Hg Emission Limit (lb/hr)
C-AS-710-03	3.09E-01	1.23E-04
C-AS-840-13	2.28E-01	9.04E-05
C-AS-843-14	3.67E-02	1.46E-05
B-A-A1-50	5.83E-01	2.32E-04
B-A-A47-51	4.04E-01	1.61E-04
B-BB-49-52	1.75E-01	6.96E-05
A-BM-5400-80	3.77E-01	1.50E-04
A-BM-5400-81	3.77E-01	1.50E-04
A-BM-825-12	8.53E-01	3.40E-04
A-BM-825-13	8.53E-01	3.40E-04
A-BM-825-H1	2.27E-01	9.00E-05
A-BM-835-06	4.52E-01	1.80E-04
A-BM-835-07	4.52E-01	1.80E-04
A-BM-890-H10	1.21E-01	4.80E-05
A-BM-890-H9	1.81E-01	7.20E-05
C-CG-480-89	6.79E-02	2.70E-05
A-FC-260-90	2.14E-01	8.52E-05
A-HP-2027-20	1.11E+00	4.40E-04
A-HP-2027-21	1.11E+00	4.40E-04
A-HP-2027-H13	9.07E-02	3.60E-05
A-HP-2027-H14	9.07E-02	3.60E-05
A-HP-2027-H15	9.07E-02	3.60E-05
A-HP-2027-H16	9.07E-02	3.60E-05
A-HP-40-75	6.14E-01	2.44E-04
A-HP-40-76	5.75E-01	2.28E-04
A-HP-670-88	4.04E-01	1.61E-04
A-HP-738-59	7.06E-02	2.80E-05
A-HP-989-31	1.64E-01	6.50E-05
A-LCH-4014-17	3.41E-01	1.36E-04
A-LCH-4022-19	9.53E-02	3.78E-05
A-MG-SH8-58	1.77E-01	7.02E-05
A-MP-230-38	1.26E+00	5.02E-04
A-MP-230-39	1.26E+00	5.02E-04
A-MP-230-40	1.26E+00	5.02E-04
A-NH-100-05	6.31E-01	2.52E-04
A-NH-118-03	9.36E-02	3.72E-05
A-NH-120-04	5.17E-02	2.06E-05
A-NH-120-H4	1.51E-01	6.00E-05
A-NH-121-01	6.65E-02	2.64E-05
A-NH-121-H1	1.21E-01	4.80E-05
A-TT-2457-66	1.50E-01	5.94E-05
A-TT-44-30	6.79E-02	2.70E-05
A-TT-60-78	4.23E-01	1.68E-04
A-TT-60-79	4.23E-01	1.68E-04
A-PP-2615-09B	1.27E+00	5.04E-04
A-PP-2615-10B	1.27E+00	5.04E-04
A-TT-84-23	--	6.12E-06
A-TT-84-24	--	6.12E-06
A-TT-84-H11	--	1.01E-06
A-TT-84-H12	--	2.04E-06
Permitted Source	Optimized HCl-equivalent	Optimized Hg

ID No.	Emission Limit (lb/hr)	Emission Limit (lb/hr)
A-TT-86-25	1.81E-01	7.20E-05
A-TT-86-26	1.81E-01	7.20E-05
C-AS-100-02	--	9.30E-06
C-AS-100-H2	--	1.35E-06
C-AS-100-19	--	1.77E-06
C-AS-236-01	--	5.74E-06
C-AS-240-01	--	2.04E-06
C-AS-4000-01	--	1.06E-05
C-AS-4000-H1	--	3.70E-06
C-AS-4035-01	--	9.30E-06
C-AS-4035-H1	--	5.74E-06
C-AS-4060-01	--	2.54E-06
C-AS-4060-02	--	2.54E-06
C-AS-4201-01	--	9.18E-06
C-AS-4201-H1	--	5.04E-06

- b. The Permittee shall use best combustion practices when operating the affected boilers and process heaters above. The initial compliance date for this work practice standard and the associated monitoring, recordkeeping, and reporting requirements is **DATE – 3 years after permit issuance**. These conditions need not be included on the annual compliance certification until after the initial compliance date.

Work Practice Standards [15A NCAC 2Q .0508(f)]

- c. To assure compliance, the Permittee shall perform an annual inspection and maintenance of the boilers and process heaters as recommended by the manufacturer, or as a minimum, the inspection and maintenance requirement shall include the following:
- i. Inspect the burner, and clean or replace any components of the burner as necessary;
 - ii. Inspect the flame pattern and make any adjustments to the burner necessary to optimize the flame pattern; and,
 - iii. Inspect the system controlling the air-to-fuel ratio, and ensure that it is correctly calibrated and functioning properly.
- The Permittee shall conduct at least one tune-up per calendar year to demonstrate compliance with this requirement. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if the affected boilers are not inspected and maintained as required above.
- d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
- i. The date of each recorded action;
 - ii. The results of each inspection; and,
 - iii. The results of any maintenance performed on the boilers.
- The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1109 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

- e. No reporting is required for hazardous air pollutants from the firing of No. 2 fuel, propane or natural gas, respectively as permitted in the above boilers or process heaters.

2.3- Schedule of Compliance

The United States Marine Corps Base at Camp Lejeune (MCBCL) is subject to the compliance schedule described below. This compliance schedule is an enforceable sequence of actions with milestones leading to compliance with 15A NCAC 2D.1100, "Control of Toxic Air Pollutants," for which the Permittee has not demonstrated compliance, with respect to the modifications undertaken as described in permit application 6700011.10B, at the time of permit no. 06591T23issuance.

- A. **Actions to be Taken by the Permittee** - The Permittee, desiring to comply with the legal requirements of this permit and with all pertinent provisions of the law and applicable requirements, is subject to the following activities:
1. The Permittee shall submit a modeling protocol to the DAQ by September 10, 2010. The protocol shall be in a form consistent with current DAQ air toxics modeling guidelines. This condition has been met.
 2. The Permittee shall conduct a "draft run" of the modeling analysis by November 30, 2010. The modeling analysis shall be based on an evaluation of at least all sources (permitted and insignificant) as of permit revision no. 06591T23.
 3. The Permittee shall contact the DAQ on or before December 1, 2010 to schedule a date and time to discuss the results of this initial analysis. The results of the discussion shall establish an expectation of what the enforceable emission limitations and monitoring, recordkeeping and reporting requirements will be upon the completion of the final modeling analysis.
 4. If necessary, the Permittee shall contact the DAQ to discuss changes to the draft modeling analysis completed in action item A.2 and any ramifications with respect to the enforceable emission limitations and monitoring recordkeeping and reporting requirements originally discussed.
 5. The Permittee shall submit a complete permit application demonstrating compliance with 15A NCAC 2D .1100"Control of Toxic Air Pollutants" by February 28, 2011.
 6. The February 28, 2010 date in action item A.5 is subject to change based upon the applicability of 15A NCAC 2D .1100 to any permit modification applications submitted prior to February 28, 2011. The DAQ shall determine the need for any extension of this date.

SECTION 3 - GENERAL CONDITIONS (version 3.2.2)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 2Q .0508(i)(16)]

1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 2D and 2Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 2Q .0507(k) and .0508(i)(9)(B)]

The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environment and Natural Resources upon request.

C. **Severability Clause** [15A NCAC 2Q .0508(i)(2)]

In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 2Q .0507(e) and 2Q .0508(i)(16)]

Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 2Q .0508(i)(2)]

The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY

The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**

1. Administrative Permit Amendments [15A NCAC 2Q .0514]

The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 2Q .0514.

2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 2Q .0524 and 2Q .0505]

The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 2Q.0524 and 2Q .0505.

3. Minor Permit Modifications [15A NCAC 2Q .0515]

The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 2Q .0515.

4. Significant Permit Modifications [15A NCAC 2Q .0516]

The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 2Q .0516.

5. Reopening for Cause [15A NCAC 2Q .0517]

The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 2Q .0517.

H. **Changes Not Requiring Permit Modifications**

1. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:

- a. changes in the information submitted in the application;
- b. changes that modify equipment or processes; or
- c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 2Q .0523(a)]

a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:

- i. the changes are not a modification under Title I of the Federal Clean Air Act;
- ii. the changes do not cause the allowable emissions under the permit to be exceeded;
- iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
- iv. the Permittee shall attach the notice to the relevant permit.

c. The written notification shall include:

- i. a description of the change;
- ii. the date on which the change will occur;
- iii. any change in emissions; and
- iv. any permit term or condition that is no longer applicable as a result of the change.

d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.

3. Off Permit Changes [15A NCAC 2Q .0523(b)]

The Permittee may make changes in the operation or emissions without revising the permit if:

- a. the change affects only insignificant activities and the activities remain insignificant after the change; or
- b. the change is not covered under any applicable requirement.

4. Emissions Trading [15A NCAC 2Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 2D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 2Q .0523(c).

I.A. Reporting Requirements for Excess Emissions and Permit Deviations

[15A NCAC 2D .0535(f) and 2Q .0508(f)(2)]

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 2D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 2Q .0700. (*Note: Definitions of excess emissions under 2D .1110 and 2D .1111 shall apply where defined by rule.*)

“Deviations” - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 2D .0524), NESHAPS (15A NCAC 2D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 2D .0535 as follows:
 - a. Pursuant to 15A NCAC 2D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
 - i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
 - name and location of the facility;
 - nature and cause of the malfunction or breakdown;
 - time when the malfunction or breakdown is first observed;
 - expected duration; and
 - estimated rate of emissions;
 - ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
 - iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 2D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 2Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
 - a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 2D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B. Other Requirements under 15A NCAC 2D .0535

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 2D .0535, including 15A NCAC 2D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 2D .0535(c)(1) through (7).
2. 15A NCAC 2D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. Emergency Provisions [40 CFR 70.6(g)]

The Permittee shall be subject to the following provisions with respect to emergencies:

1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
 - a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
 - b. the permitted facility was at the time being properly operated;
 - c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
 - d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

Security Emergency Provisions For Air Toxics -(State Enforceable Only)-

6. A “security emergency” means a situation where extremely quick action on the part of a Military Department or a Department of Defense component is needed, and when timing of such action may make it impracticable to meet one or more requirements of an applicable permit. *A security emergency applies only to State Air Toxics as listed in 15A NCAC 2D .1100 and does not apply to any Federally Enforceable provisions of this Title V Permit.* Security emergencies are actions necessary to support operation of the United States forces introduced into hostilities or introduced into situations where involvement in hostilities is indicated or a possibility, peacekeeping operations, rendering emergency humanitarian relief, actions to extinguish wildfires, immediate responses to the release or discharge of oil or hazardous material in accordance with approved Spill Prevention and Response Plans and Spill Contingency Plans, and responses to natural disasters such as hurricanes, earth quakes, or civil disturbances.
7. A “surge condition” occurs when the temporary response to the security emergency requires an increase above and beyond the normal operating levels of the installation or activity and such increase cannot be accommodated within the terms of the applicable permit limitations.
8. The responsible official of the military installation or activity responding to a security emergency shall determine when a security emergency surge condition exists and shall provide notice of the surge condition to the appropriate state or local regulating authority, and shall report such determination to the responsible Secretary of the Military Department or Head of the Department of Defense Component, in writing, within, ten working days after the start of the surge condition.
9. The responsible official of the military installation or activity shall make a determination that a security emergency surge condition exists only after making reasonable efforts to accommodate the increase with allowable requirements and permit limits.
10. If the security emergency surge condition extends beyond 30 calendar days from the date of the notice, the continued use of this security emergency provision must be approved by the Department of Defense Component.
11. Within 45 working days after the emergency surge condition has ended, the responsible official of the military installation or activity shall provide a written report to appropriate permitting authority, and to the responsible secretary of the Military Department or the Head of the Department of Defense Component, describing the amount of increased pollutants caused by the surge condition.

K. **Permit Renewal** [15A NCAC 2Q .0508(e) and 2Q .0513(b)]

This permit is issued for a fixed term of five years for facilities subject to Title IV requirements and for a term not to exceed five years in the case of all other facilities. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 2Q .0512(b)(1), this permit shall not

expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 2Q .0508(i)(4)]

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 2Q .0508(i)(9)]

1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 2Q .0507(f)]

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 2Q .0508(f) and 2Q .0508 (l)]

The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 2Q .0508(n)]

The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:

1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 2Q .0520]

A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 2Q .0512]

1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
 - a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
 - b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the

effective date of the permit or at the time of permit issuance;

- c. the applicable requirements under Title IV; or
 - d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 2Q .0523.
 4. A permit shield does not extend to minor permit modifications made under 15A NCAC 2Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 2Q .0519]

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 2Q .0503]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 2Q .0508(i)(8)]

This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 2Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
 - a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
 - c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.

2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 2Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 2Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environment and Natural Resources. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 2Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 2Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 2Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such

form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 2Q .0107 and 2Q. 0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 2Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 2Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 2Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 2Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 2Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 2Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History** [15A NCAC 2Q .0507(d)(4)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 2Q .0501(e)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.
3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR, 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 2Q .0508(h)]

If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) - FEDERALLY-ENFORCEABLE ONLY**

Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 2Q .0508(i)(1)]

This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 2D .0300]

Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 2D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 2D .0200]

The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 2D .0202(b).

II. Ambient Air Quality Standards [15A NCAC 2D .0501(c)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 2D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. General Emissions Testing and Reporting Requirements [15A NCAC 2Q .0508(i)(16)]

If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow the procedures outlined below:

1. The Permittee shall submit a completed Protocol Submittal Form to the DAQ Regional Supervisor at least 45 days prior to the scheduled test date. A copy of the Protocol Submittal Form may be obtained from the Regional Supervisor.
2. The Permittee shall notify the Regional Supervisor of the specific test dates at least 15 days prior to testing in order to afford the DAQ the opportunity to have an observer on-site during the sampling program.
3. During all sampling periods, the Permittee shall operate the emission source(s) under maximum normal operating conditions or alternative operating conditions as deemed appropriate by the Regional Supervisor or his delegate.
4. The Permittee shall submit **two** copies of the test report to the DAQ. The test report shall contain at a minimum the following information:
 - a. a description of the training and air testing experience of the person directing the test;
 - b. a certification of the test results by sampling team leader and facility representative;
 - c. a summary of emissions results and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s);
 - d. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics should be included as necessary;
 - e. all field, analytical, and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 - f. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 - g. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
5. The testing requirement(s) shall be considered satisfied only upon written approval of the test results by the DAQ.
6. The DAQ will review emission test results with respect exclusively to the specified testing objectives as proposed by the Permittee and approved by the DAQ.

KK. Reopening for Cause [15A NCAC 2Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
 - a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
 - b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
 - c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
 - d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 2Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 2Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 2Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.

4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. Reporting Requirements for Non-Operating Equipment [15A NCAC 2Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. During operation the monitoring recordkeeping and reporting requirements as prescribed by the permit shall be implemented within the monitoring period.

MM. Fugitive Dust Control Requirement [15A NCAC 2D .0540] - STATE ENFORCEABLE ONLY

As required by 15A NCAC 2D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 2D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. Specific Permit Modifications [15A NCAC 2Q.0501 and .0523]

1. For modifications made pursuant to 15A NCAC 2Q .0501(c)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 2Q .0501(d)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 2Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth St., Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
 - a. a description of the change at the facility;
 - b. the date on which the change will occur;
 - c. any change in emissions; and
 - d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

ATTACHMENT**List of Acronyms**

AOS	Alternate Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CEM	Continuous Emission Monitor
CAIR	Clean Air Interstate Rule
CFR	Code of Federal Regulations
CAA	Clean Air Act
DAQ	Division of Air Quality
DENR	Department of Environment and Natural Resources
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM₁₀	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO₂	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound