

NORTH CAROLINA DIVISION OF AIR QUALITY

Air Permit Review – Renewal

Permit Issue Date: **XXXXXXXX**

Region: Fayetteville Regional Office
County: Cumberland
NC Facility ID: 2600102
Inspector's Name: Christy Richardson
Date of Last Inspection: 07/26/2005
Compliance Code: C/In Compliance With Procedural Reqr

Facility Data			Permit Applicability (this application only)		
Applicant (Facility's Name): HQ XVIII ABN Corps & Fort Bragg Facility Address: HQ XVIII ABN Corps & Fort Bragg Public Works Bus Ctr XVIII ABN Corps Fort Bragg, NC 28310 SIC: 9711 / National Security NAICS: 92811 / National Security Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V			SIP: 15A NCAC 2Q. 0513 NSPS: N/A NESHAP: N/A PSD: N/A PSD Avoidance: N/A NC Toxics: N/A 112(r): N/A Other: N/A		
Contact Data			Application Data		
Facility Contact	Authorized Contact	Technical Contact	Application Number: 2600102.05B Date Received: 02/25/2005 Application Type: Renewal Application Schedule: TV-Renewal Existing Permit Data Existing Permit Number: 04379/T25 Existing Permit Issue Date: 04/11/2006 Existing Permit Expiration Date: 03/31/2011		
Christine Hull Chief of Environmental Compliance Branch (919) 907-3214 IMSE BRG PWE-C Fort Bragg NC, 28310	Gregory Bean Director of PWBC (910) 396-4009 IMSE-BRG-PWE, Bldg 3-1333 Butner Rd. Fort Bragg NC, 28310	Christine Hull Chief of Environmental Compliance Branch (919) 907-3214 IMSE BRG PWE-C Fort Bragg NC, 28310			
Review Engineer: Booker Pullen Regional Engineer: Christy Richardson Review Engineer's Signature:		Begin Date: March 6, 2006	Comments / Recommendations: Issue 04379/T26 Permit Issue Date: XXXXXXXX Permit Expiration Date: March 31, 2011		

I. Introduction:

The Fort Bragg Military Base is located at Building 3-1333 Butner Road, Cumberland County, Fort Bragg, North Carolina. Application No. 2600102.05B was received by the Division of Air Quality (DAQ) on February 25, 2005 and was considered complete on that date. This application (2600102.05B) is a request for the renewal of the existing Title V Permit and will go through the 30-day public notice and the EPA 45-day review period prior to being signed.

II. Purpose of this application (2600102.05A and 2600102.05D):

- A. Renewal of permit No. 04379. Permit will be issued as revision No. T26.
- B. Place two natural gas-fired boilers (20 million Btu per hour heat input each, ID Nos. ES-27B and 28B) back into the body of the permit. They were mistakenly placed on the insignificant activities list several permits prior to this one.
- C. Evaluate all of the existing permitted sources for Compliance Assurance Monitoring, and any other regulations that may be applicable to these sources such as MACT requirements.

III. Changes to existing permit per applications (2600102.05B):

	New Page No.	Condition No.	Changes
Cover Letter			
Page 1	Page 1	Heading and body of letter	Revised issue date, revised permit number, changed "complete application" received date
Page 2	Page 2	Heading and body of letter	Revised issued date at the top of letter, and changed the effective date of permit Added total PSD increment tracking for NOx, PM10, SO ₂
Page 3	Page 3	Insignificant activities list (Page 1 of 3)	Revised permit number
Page 4	Page 4	Insignificant activities list (Page 2 of 3)	Revised permit number
Page 5	Page 5	Insignificant activities list (Page 3 of 3)	Revised permit number
Page 6-7	Page 6-7	"Changes to existing permit" table, page 1 of 2	Revised table to reflect the changes per application 2600102.05B
Changes to Part I, Operation Permit			
Page 1	Page 1	Front page of permit	Changed permit No., "replaces permit No.", issue date, effective date, application No., complete application date
All pages	All pages	Heading at top	Changed the revision number of the permit to T26
Page 3	Page 3	Permitted sources table	Added boilers ES-27B and 28B back into the table.
Page 21	Page 21	Specific Limitations and Conditions	Added boilers ES-27B and 28B along with applicable regulations
Page 46	Page 46		Removed the PSD Avoidance regulation for helicopter paint spray booth ID No. ES-10C from table and Specific Limitations
Page 47	Page 47		

IV. Facility Description:

Fort Bragg is a military base and home to approximately 50,000 active duty soldiers.

V. Statement of Compliance:

The DAQ has reviewed the compliance status of this facility. Ms. Christy Richardson of the FRO, performed a facility inspection on July 26, 2005 and the facility was determined to be in compliance with all applicable requirements. The applicant has certified that the facility will be in compliance with all applicable requirements at the time of permit effective date will continue to comply with these requirements. The applicant has also certified that the facility will be in compliance with any applicable requirements taking effect during the term of the permit and will meet such requirements on a timely basis.

VI. Summary of emission sources for which this renewal is being issued

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Boilers			
ES-01B ES-02B ES-03B ES-04B ES-05B	Five natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boilers (four at 26 million Btu per hour heat input capacity, and one at 31.5 million Btu per hour input capacity, respectively), located in Building CMA/D-3529,	None	None
ES-11B ES-12B	Two natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boilers (25 million Btu per hour heat input capacity each), located in Building N-6002 [COSCOM],	None	None
ES-13B - NSPS ES-14B - NSPS	Two natural gas-fired boilers (14.7 million Btu per hour heat input capacity each), located in the Soldiers Support Center	None	None

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Boilers – Continued			
ES-15B – NSPS ES-16B – NSPS ES-17B – NSPS ES-18B – NSPS	Four natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boilers (36.5 million Btu per hour heat input capacity each), located in Building C-2337 [82nd Div],	None	None
ES-20B ES-21B	No. 2 fuel oil-fired boilers (70.0 million Btu per hour heat input capacity each), located in Building C-7549 [Old Div. plant],	None	None
ES-22B - NSPS ES-23B - NSPS	Two natural gas-fired boilers (12.6 million Btu per hour heat input capacity each), located in the Maintenance Management Division (MMD),	None	None
ES-24B - NSPS ES-25B - NSPS ES-26B - NSPS	Three natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boilers (two at 23.4 million Btu per hour heat input capacity each and one at 10 million Btu per hour heat input capacity, respectively) located in the new Womack Hospital Boiler Plant, Building 4-2811,	None	None
ES-27B ES-28B	Two natural gas-fired boilers (20.0 million Btu per hour heat input capacity each), located in building E-2823	None	None
ES-29B - NSPS	One natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boiler (72.3 million Btu per hour heat input capacity), located in Building C-2337 [82nd Div.],	None	None
ES-30B ES-31B ES-32B	Three diesel-fired boilers (8.3 million Btu per hour heat input capacity each), located in the Special Operations Training Facility [SOTF] area,	None	None
ES-35B NSPS, MACT	One natural gas/No. 2 fuel oil/on-specification recycled No. 2 fuel oil-fired boiler (72.3 million Btu per hour heat input) located at the 82 nd Heat Plant	None	None
ES-36B ES-37B ES-38B ES-39B NSPS, MACT	Four natural gas/No. 2 fuel oil-fired boilers (10.5 million Btu per hour heat input each)	None	None
ES-40B ES-41B ES-42B ES-43B	Four natural gas/No. 2 fuel oil-fired boilers (8.4 million Btu per hour heat input each) located in buildings A4251 and A2547	None	None
-Generators-			
ES-03G ES-04G ES-05G	Three diesel-fired emergency generators (600 kW maximum output each),	None	None
ES-01-PSG **	One diesel-fired emergency/peak shaving generator (230 kW maximum output),	None	None
ES-02-PSG **	One diesel-fired emergency/peak shaving generator (250 kW maximum output),	None	None
ES-08-PSG **	One diesel-fired emergency/peak shaving generator (400 kW maximum output),	None	None
ES-17PSG **	One diesel-fired emergency/peak shaving generator (1500 kW maximum output),	None	None

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** These generators are PSD sources when operating as peak shavers only.

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Generators – Continued			
ES-08G	One diesel-fired emergency generator (800 kW maximum output),	None	None
ES-11PSG ** ES-12PSG ** ES-13PSG **	Three diesel-fired emergency/peak shaving generators (850 kW maximum output each), located at the Special Operations Training Facility [SOTF],	None	None
ES-16PSG **	One diesel-fired emergency/peak shaving generator (900 kW maximum output),	None	None
ES-14PSG ** ES-15PSG **	Two diesel-fired emergency/peak shaving generators (750 kW maximum output),	None	None
ES-07PSG **	One diesel-fired emergency/peak shaving generator (400 kW maximum output)	None	None
ES-09PSG **	One diesel-fired emergency/peak shaving generator (410 kW)	None	None
ES-03PSG ** ES-04PSG ** ES-05PSG ** ES-06PSG **	Four diesel-fired emergency/peak shaving generators (350 kW maximum output each),	None	None
ES-24G ES-25G ES-26G	Three diesel-fired emergency generators (1275 kW maximum output each),	None	None
ES-10PSG **	One diesel-fired emergency/peak shaving generator (600 kW maximum output),	None	None
ES-31G	One diesel-fired emergency generator (900 kW maximum output),	None	None
ES-32G	One diesel-fired emergency generator (1500 kW maximum output),	None	None
ES-33G	One diesel-fired emergency generator (1275 kW maximum output),	None	None
ES-34G	One diesel-fired emergency generator (600 kW maximum output),	None	None
ES-37G	One diesel-fired emergency generator (1250 kW, 1676 hp, maximum output),	None	None
ES-38G	One diesel-fired emergency generator (600 kW, 804 hp, maximum output),	None	None
Cogeneration System			
ES-33B NSPS, Subpart GG	One natural gas, No. 2 fuel oil-fired cogeneration gas turbine (60.32 million Btu per hour maximum heat input, 5.0 megawatt electrical output)	None	None
ES-34B NSPS, Subpart Dc	One heat recovery steam generator (61.2 million Btu per hour maximum heat input)	None	None
Incinerator			
ES-03I	One natural gas-fired incinerator { 130 pounds per hour maximum charge rate, Type O waste, multiple chamber, with 1.0 million Btu per hour (minimum) primary burner and a 2.0 million Btu per hour (minimum) secondary burner}, located at Building C-1629,	None	None

-Table continued on the next page-

** These generators are PSD sources when operating as peak shavers only.

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

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
Painting operations			
ES-01C ES-02C	Two paint spray booths, located in Building Y-4804 [Main],	None	None
ES-04C	One paint spray booth, located in Building F-4334 [Main Post],	None	None
ES-05C	One paint spray booth, located in Building A-4505 [National Guard]	None	None
ES-07C MACT, Subpart GG	One paint spray booth, located in Building P-3354 [Simmons AAF]	None	None
ES-08C	One paint spray booth, located at the new Special Operations Training Facility [SOTF]	None	None
ES-09C	One dry filter-type paint spray booth using non-reactive water Reducible Chemical Agent Resistant Coatings only, along with natural gas-fired bake ovens (3.3 million Btu total heat input capacity) located at the Material Maintenance building (Y-4804)	None	None
ES-10C MACT, Subpart GG	One dry filter paint spray booth with direct natural gas-fired make-up air heater (3.3 million Btu per hour heat input, ID No. ES-10H) located in building No. P-3354)	CD-10C	One thermal oxidizer (1.2 million Btu per hour heat input)
ES-01P	One paper pulverizer	CD-01P	One fabric filter (612 square feet of surface area)
-Engine Test Stands-			
ES-01E	One larger diesel vehicle engine test stand located at the Maintenance Management Division, Bldg Y-5015	None	None
ES-02E	One smaller diesel vehicle engine test stand located at the Maintenance Management Division, Bldg Y-5015	None	None

VII. Emission Source-by-Source Evaluation- Applicable Regulations

A. Five boilers (natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired (four at 26 million Btu per hour heat input capacity, and one at 31.5 million Btu per hour input capacity, ID Nos. ES-01B, ES-02B, ES-3B, ES-04B and ES-05B, respectively) located in Building CMA/D-3529.

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping or reporting is required.

B. Two boilers (natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired, 25.0 million Btu per hour heat input capacity each, ID Nos. ES-11B and ES-12B) located in Building N-6002 [COSCOM]

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

C. Two boilers (natural gas, 14.7 million Btu heat input capacity each, ID Nos. ES-13B and ES-14B, NSPS) located at building 4-2441 (Soldiers Support Center)

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

D. Four boilers (natural gas/No. 2 fuel oil/on-specification use No. 2 fuel oil-fired, 36.5 million Btu per hour heat input capacity each, ID Nos. ES-15B, ES-16B, ES-17B, ES-18B, NSPS) in Building C-2337 [82nd Division]

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for NO_x
5. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

E. Two boilers (No. 2 fuel oil-fired, 70.0 million Btu per hour heat input capacity each, ID Nos. ES-20B and ES-21B) located in Building C-7549 [Old Div. Plant]

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

F. Two boilers (natural gas-fired, 12.6 million Btu per hour heat input capacity each, ID Nos. ES-22B and ES-23B) located in the Maintenance Management Division

1. 15A NCAC 2D .0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

G. Three boilers (natural gas/No. 2 fuel oil/on-specification used No. 2 oil-fired boiler, 23.4 million Btu per hour heat input capacity each, ID Nos. ES-24B, ES-25B, and 10 million Btu per hour heat input capacity for ES-26B, NSPS) located in the new Womack Hospital Boiler Plant, Building 4-2811

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for NO_x
5. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

H. Two natural gas-fired boilers (20.0 million Btu heat input capacity each, ID Nos. ES-27B and ES-28B) located at building E-2823

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required. These boilers were previously permitted, but were mistakenly removed from the permit and placed on the insignificant activities list. The emissions from these boilers were included in the emissions inventory.

I. One natural gas/No. 2 fuel oil/on-specification used No. 2 fuel oil-fired boiler (72.3 million Btu per hour heat input capacity, ID No. ES-29B, NSPS) located in Building C-2337 [82nd Division]

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for NO_x
5. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. This boiler does not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

J. Three boilers (No. 2 fuel oil-fired, 8.3 million Btu per hour heat input capacity each, ID Nos. ES-30B, ES-31B, and ES-32B) located at SOTF

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
5. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

K. One natural gas/No. 2 fuel oil/on-specification recycled No. 2 fuel oil-fired boiler (72.3 million Btu per hour heat input capacity, ID No. ES-35B, NSPS, MACT)

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0524: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0524: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂
5. 15A NCAC 2D .1111: MACT for Boilers
 - a. Particulate (0.03 lbs per million Btu heat input)
 - b. Carbon monoxide (400 ppm by volume, on a dry basis corrected to 3% oxygen (3-run average))
 - c. Hydrogen chloride (0.0005 lbs per million Btu heat input)

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. This boiler has to be in compliance with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD upon startup. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

L. Four natural gas/No. 2 fuel oil-fired boilers (10.5 million Btu per hour heat input capacity each, ID Nos. ES-36B, 37B, 38B, and 39B, NSPS, MACT)

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0524: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂
5. 15A NCAC 2D .1111: MACT for Boilers
 - c. Particulate (0.03 lbs per million Btu heat input)
 - d. Carbon monoxide (400 ppm by volume, on a dry basis corrected to 3% oxygen (3-run average))
 - c. Hydrogen chloride (0.0005 lbs per million Btu heat input)

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers have to be in compliance with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD upon startup. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

M. Four natural gas/No. 2 fuel oil-fired boilers (8.4 million Btu per hour heat input capacity each, ID Nos. ES-40B, 41B, 42B, and 43B)

1. 15A NCAC 2D. 0503: Particulate Emissions From Fuel Burning Indirect Heat Exchangers
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance for SO₂

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. These boilers do not have to be in compliance (if necessary) with the boiler MACT in accordance with 40 CFR Part 63, Subpart DDDDD until September 13, 2007. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

N. Emergency and/or peak shaving generators located in various Buildings:

ID Number	Source Description	Size of Generator
ES-01PSG	Diesel fuel-fired	230 kW maximum output
ES-02PSG	Diesel fuel-fired	250 kW maximum output
ES-03PSG	Diesel fuel-fired	350 kW maximum output
ES-04PSG	Diesel fuel-fired	350 kW maximum output
ES-05PSG	Diesel fuel-fired	350 kW maximum output
ES-06PSG	Diesel fuel-fired	350 kW maximum output

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N. Emergency and/or peak shaving generators located in various Buildings: (Continued)

ID Number	Source Description	Size of Generator
ES-07PSG	Diesel fuel-fired	400 kW maximum output
ES-08PSG	Diesel fuel-fired	400 kW maximum output
ES-09PSG	Diesel fuel-fired	410 kW maximum output
ES-10PSG	Diesel fuel-fired	600 kW maximum output
ES-11PSG	Diesel fuel-fired	850 kW maximum output
ES-12PSG	Diesel fuel-fired	850 kW maximum output
ES-13PSG	Diesel fuel-fired	850 kW maximum output
ES-14PSG	Diesel fuel-fired	750 kW maximum output
ES-15PSG	Diesel fuel-fired	750 kW maximum output
ES-16PSG	Diesel fuel-fired	900 kW maximum output
ES-17PSG	Diesel fuel-fired	1500 kW maximum output
ES-03G	Diesel fuel-fired	600 kW maximum output
ES-04G	Diesel fuel-fired	600 kW maximum output
ES-05G	Diesel fuel-fired	600 kW maximum output
ES-08G	Diesel fuel-fired	800 kW maximum output
ES-24G	Diesel fuel-fired	1275 kW maximum output
ES-25G	Diesel fuel-fired	1275 kW maximum output
ES-26G	Diesel fuel-fired	1275 kW maximum output
ES-31G	Diesel fuel-fired	900 kW maximum output
ES-32G	Diesel fuel-fired	1500 kW maximum output
ES-33G	Diesel fuel-fired	1275 kW maximum output
ES-34G, MACT	Diesel fuel-fired	600 kW, 804 hp maximum output
ES-37G, MACT	Diesel fuel-fired	1250 kW, 1676 hp maximum output
ES-38G, MACT	Diesel fuel-fired	600 kW, 804 hp maximum output

1. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
2. 15A NCAC 2D .0521: Visible Emissions
3. 15A NCAC 2D .0530 (PSD for NOx from peak shaving operation)
4. 15A NCAC 2D .1111: MACT, Subpart ZZZZ, Hazardous Air Pollutants

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. The existing generators do not have to be in compliance with the R.I.C.E. MACT in accordance with 40 CFR Part 63, Subpart ZZZZ until June 15, 2007. The new emergency generators have to be in compliance with the Rice MACT upon startup. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

- O. One natural gas, No. 2 fuel oil-fired cogeneration turbine (60.32 million Btu per hour maximum heat input, 5.0 megawatt electrical output, NSPS Subpart GG, ID No. ES-33B) along with one heat recovery steam generation unit with supplemental heat (natural gas-fired, 61.2 million Btu per hour maximum heat input, NSPS Subpart Dc, ID No. ES-34B)**

Steam Generation Unit

1. 15A NCAC 2D .0503: Particulate emissions
2. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
3. 15A NCAC 2D .0524: NSPS, Subpart Dc - Visible Emissions
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance of NOx

Turbine

1. 15A NCAC 2D. 0524: NSPS Subpart GG-Sulfur dioxide
2. 15A NCAC 2D .0521: Visible Emissions
3. 15A NCAC 2D. 0524: NSPS Subpart GG-NOx
4. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance of NOx

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. Turbine (ID No. ES-33B) is a lean premix gas-fired/No. 2 fuel oil-fired turbine, and is therefore part of the category that EPA has issued a “stay” as far as applicability to the Combustion MACT, Subpart YYYYY, when firing only natural gas. There is also a section in the preamble (Federal Register/Volume 69, No. 67 Wednesday, April 7, 2004/Proposed Rules, page 18330) of this MACT that states: “for the purposes of the MACT standards, stationary combustion turbines have been divided into eight sub-categories. Four of the subcategories are the subject of the proposed de-listing rule: (1) Stationary lean premix combustion turbines when firing gas and when firing oil at sites where all turbines fire oil no more than 1,000 hours annually (also referred to as “lean premix gas-fired turbines)”. This statement indicates that the lean mix oil-fired turbines (operating on oil less than a 1000 hours per year) are also called and categorized as “lean premix gas-fired turbines”. Therefore, turbine (ID No. ES-33B) is not subject to Subpart YYYYY, at this time.

The final rule for 40 CFR Part 63, Subpart YYYYY was amended on August 18, 2004 (Federal register, Volume 69, No. 159/Wednesday, August 18, 2004, page 51184) to state the following (page 51188): startup of a new or reconstructed stationary combustion turbine that is a lean premix gas-fired stationary combustion turbine must comply with the initial notification requirements set forth in §63.6145 but need not comply with any other requirements of this subpart until EPA takes final action to require compliance and publishes a document in the Federal Register.

Existing turbines (commenced construction prior to January 13, 2003) in all subcategories do not have to meet the requirements of Subpart YYYYY.

No additional monitoring, recordkeeping, or reporting is required.

P. One natural gas-fired, 130 pounds per hour maximum charge rate, Type O waste {to include, small (less than 100 pounds/year) quantities of non-hazardous, drug contraband and other evidence from installation sources}, multiple chamber incinerator with 1.0 million Btu per hour (minimum) heat input rate primary burner and a 2.0 million Btu per hour (minimum) heat input rate secondary burner, ID No. ES-03I) located in building C-1629,

1. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources
2. 15A NCAC 2D .0521: Visible Emissions
3. 15A NCAC 2D .1806: Odor
4. 15A NCAC 2D .1200: Particulate
5. 15A NCAC 2D .1200: Hydrogen chloride
6. 15A NCAC 2D .1200: Mercury

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

Q. Six dry filter-type paint spray booths (ID Nos. ES-01C, ES-02C, ES-04C, ES-05C, ES-07C, and ES-08C), one dry filter-type paint spray booth using non-reactive water reducible Chemical Agent Resistant Coatings only (ID No. ES-09C) along with natural gas-fired bake ovens

1. 15A NCAC 2D .0958: Volatile Organic Compounds
2. 15A NCAC 2D .0515: Particulate
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .0711: Toxic Air Pollutants
5. 15A NCAC 2D .1111: MACT, Subpart GG, Hazardous Air Pollutants

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

- R. **One dry filter-type paint spray booth (ID No. ES-10C, MACT Subpart GG), using epoxy primer and Chemical Agent Resistant Coating (CARC), with one natural gas-fired make up air heater (3.3 million Btu per hour maximum heat input, ID No. ES-10H), controlled by one natural gas-fired thermal oxidizer (1.2 million Btu per hour maximum heat input, ID No. CD-10C), Building P-3354.**

1. 15A NCAC 2D .0958: Volatile Organic Compounds
2. 15A NCAC 2D .0515: Particulate
3. 15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance of VOCs (**Remove form permit**)
3. 15A NCAC 2D .0521: Visible Emissions
4. 15A NCAC 2D .1111: MACT, Subpart GG, Hazardous Air Pollutants

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application.

15A NCAC 2D .0530 and 2Q .0317: PSD Avoidance of VOCs

This source is a paint spray booth at Simmons Army Air Field (SAAF) Building P-3354 that is used to paint helicopters. A maximum of 35 helicopters can be processed annually through this paint booth. The potential, pre-control VOC emissions are 2.0 tons/year. The potential to emit is based on the time required to move the helicopter into the blast booth, remove components, blast it, inspect it for cracks, move it into the paint booth, prep it for painting, prime and paint, let it dry, apply decals, and reattach the components that were removed before painting, and move the aircraft out.

**SAAF Paint Booth
Potential VOC Emissions for One helicopter (CH-47)**

Paint description	Product number	Density (lbs/gal)	Usage (gal/ helicopter)	Content (wt%)	Content (vol%)	Emissions (lbs/helicopter)	Emissions (lbs/year)
Green Zenthane, Part A (3:1, A:B by volume)	8010-01-316-2219	11.8	9	33%	55%	40	1400 lbs
	8010-01-316-2219	9.1	3	20%	26%	6	210 lbs
	8010-01-417-1215	11.0	3	28%	44%	9	315 lbs
	8010-01-417-1216	7.9	1	40%	45%	3	105 lbs
	8010-00-181-8080	7.1	4	100%	100%	30	1050 lbs
Total (one Helicopter)							3080 lbs

Example Calculation:

$$\frac{\text{Potential VOCs emissions for Green Zenthane Part B}}{\text{helicopter}} = \frac{3 \text{ gallons}}{\text{helicopter}} \times \frac{9.1 \text{ lbs}}{\text{gallon}} \times \frac{20 \text{ lbs VOCs}}{100 \text{ lbs VOCs}} = \frac{5.46 \text{ lbs VOCs}}{\text{helicopter}}$$

Remove the PSD Avoidance condition from the permit because the physical limitations of the process limit the throughput into the booth and the potential to emit prior to control is already less than 40 tons per year of VOCs, without any restrictions in the permit. No additional monitoring, recordkeeping, or reporting is required.

15A NCAC 2D .0614: Compliance Assurance Monitoring

CAM under 15A NCAC 2D .0614 does not apply because the before control emissions are less than 100 tons for the pollutant emission unit. No additional monitoring, recordkeeping, or reporting is required.

- S. **Two diesel vehicle engine test stands (ES-01E and ES-02E) located at Maintenance Management Division**

1. 15A NCAC 2D .0516: Sulfur Dioxide Emissions From combustion Sources

No regulatory review is required for the regulation listed above at this time since there are no new sources being added for this renewal application. CAM under 15A NCAC 2D .0614 does not apply because there are no control devices. No additional monitoring, recordkeeping, or reporting is required.

T. One paper pulverizer (maximum 2000 lbs per hour input, ES-01P) with associated bagfilter (612 square feet of surface area)

1. 15A NCAC 2D .0515: Particulate
2. 15A NCAC 2D .0521: Visible Emissions

No regulatory review is required for the regulations listed above at this time since there are no new sources being added for this renewal application. CAM under 15A NCAC 2D .0614 does not apply because the PM10 emissions prior to control are less than 100 tons per year. No additional monitoring, recordkeeping, or reporting is required..

VIII. A consistency determination **is not** for this renewal application.

IX. An application fee **is not** required for this renewal application.

X. The appropriate number of copies of the application were received by the DAQ on February 25, 2005.

XI. The application contained the Reduction and Recycling Form.

XII. The application was signed by an authorized official as defined by 15A NCAC 2Q .0304(j).

XIII. Air toxics **does not** apply for because no new sources are being added in this renewal application.

XIV. Other:

This facility is currently an affected source under 40 CFR Part 68, Prevention of Accidental Releases, Section 112(r) of the Clean Air Act because of the amount of chlorine stored and used at the drinking water and wastewater treatment plants. Fort Bragg submitted its initial Risk Management Plan (RMP) to the EPA in June 1999. The 5-year update to the original RMP was submitted to the USEPA on June 21, 2004. A DAQ Form A3 was completed and submitted with this renewal.

XV. Public Notice

A thirty-day public notice **is required:**

Notice Period:

EPA 45-Day review Period:

XVI. Recommendations

This renewal permit for the Fort Bragg Military Base, located in Fort Bragg, North Carolina, has been reviewed by the DAQ to determine compliance with all procedures and requirements. The DAQ has determined that this facility is complying or will achieve compliance as specified in the permit with all applicable requirements.

Regional Comments for this permit and review were received on _____.