



STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



January 10, 2007

Richard Barlow  
Stratford Army Engine Plant  
550 Main Street  
Stratford, CT 06615

Re: GamAir Proj. No. 539-0607

HTL-94 Bigelow Boiler Town: 178 Premise: 019 Reg. 0116 Stack: 02  
HTL-94 Bigelow Boiler Town: 178 Premise: 019 Reg. 0087 Stack: 03

Dear Mr. Barlow:

I am pleased to inform you that the NOx RACT sampling program test report for the two Bigelow boilers located in Stratford, CT, which are owned by the US Army Engine Plant and operated by Ferguson-Williams, has been reviewed. Based on our review, we find that all testing was conducted under the required operating conditions and that the equipment tested during this test program appears to be in compliance with the applicable emission limits. The results have been forwarded to the case manager for Trading Order No. 8137A.

Please contact Mr. Stephen Anderson, Supervising Air Pollution Control Engineer of the Source Emissions Monitoring Unit, with any questions or concerns regarding this letter. He can be reached at either his direct line of (860) 424-3453 or through the Compliance and Field Operations main phone line of (860) 424-3702.

Sincerely,

Robert W. Girard  
Assistant Director

RWG/cse

cc: L.A. Gammie, Gammie Air Monitoring  
M. LaFleur, DEP Enforcement Section  
C. Ekroth, DEP Source Emissions Monitoring  
ITT File #: 2006086

**Compliance Test Report  
U.S. Army Installation Support  
Management Facility  
Stratford Army Engine Plant  
Boiler Nos. 2 and 3  
Stratford, Connecticut**

**Prepared for:**

**Mr. Richard Barlow  
Ferguson-Williams, Inc.**

**Prepared by:**

**Mr. Leigh A. Gammie  
Gammie Air Monitoring, LLC**

**December 2006**

**GamAir Project No.: 539-0607**

## 1.0 INTRODUCTION

### 1.1 Summary of Test Program

Gammie Air Monitoring, LLC (GamAir) was retained by Ferguson-Williams, Inc. (F-W) to perform a compliance air emissions testing program on two Bigelow boilers at the Stratford Army Engine Plant located at 550 Main Street in Stratford, Connecticut. Boiler No. 2 is a Bigelow Model HTL-94 as is Boiler No. 3. Both boilers were tested for oxides of nitrogen (NO<sub>x</sub>) while burning natural gas. The two boilers were installed in 1971 and currently are registered sources identified as R0116 (Boiler No. 2) and R087 (Boiler No. 3). Emission measurement testing occurred on the single exhaust from each boiler during normal plant operations. The purpose of this test program was to quantify the emissions of oxides of nitrogen (NO<sub>x</sub>). The emissions data is being compared to the applicable emission limits as promulgated by the State of Connecticut, Department of Environmental Protection (CTDEP). The allowable emission limit is:

Oxides of Nitrogen (NO<sub>x</sub>) 0.20 pounds per million British thermal units

The emission tests were carried out in conformance with the CTDEP guidelines for source emission testing and applicable test methodologies as published in Title 40, Code of Federal Regulations, Part 60, Appendix A (40CFR60). This test program was conducted during a single day of testing on 5 December 2006. Mr. Carl Ekroth served as the onsite CTDEP inspector. GamAir was responsible for sampling and analyzing all air emissions defined in Section 3.0. F-W was responsible for operating both boilers at normal load conditions and collecting all necessary process data.

Section 2.0 of this report presents a description of each source and describes the sampling locations. Section 3.0 summarizes the test results. Sampling and analysis methodologies utilized for this test program are presented in Section 4.0. Quality assurance procedures specific to this test program are described in Section 5.0.

### 1.2 Test Program Organization

The following is a list of those individuals responsible for the organization of this test program.

Mr. Richard Barlow	F-W, Inc.	(203) 385-6627
Mr. Rajat Garg	Aquair Environmental	(860) 653-1709
Mr. Carl Ekroth	CTDEP	(860) 424-3894
Mr. Leigh Gammie	GamAir	(860) 658-4929