



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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May 11, 2015

Mr. Dana Pelletier
Newark America
100 Newark Way
Fitchburg, Massachusetts 01420

RE: Fitchburg
Transmittal No.: X264820
Application No.: CE-15-005
Class: *OP*
FMF No.: 306043
AIR QUALITY PLAN APPROVAL

Dear Mr. Pelletier:

The Department of Environmental Protection, Bureau of Air and Waste, Permitting Section (“MassDEP”) has reviewed the Administrative Amendment Application Transmittal Number X264820, dated April 6, 2015, regarding Boiler No. 1 operation, and is issuing this amendment to Plan Approval Transmittal Number W200007-A, originally issued April 30, 2008. The purpose of this amendment is to allow Boiler No. 1 to operate concurrently with Boiler No. 2 only during periods of startup, and shutdown, or tuneup. The changes are discussed in detail in Section I, HISTORY.

MassDEP is of the opinion that the material submitted is in conformance with the current Massachusetts Air Pollution Control Regulations and hereby approves the project subject to the conditions and provisions stated herein. This approval is limited to the applicable air pollution control regulations and does not constitute approval as may be required by other MassDEP Regulations or Statutes in order for the above-mentioned facility to be installed and operated. This approval provides information on the project description, emission limitations, restrictions, specific conditions, record keeping, reporting and testing requirements.

This Amended Approval Transmittal Number X264820 replaces in its entirety Plan Approval Transmittal Number W200007-A dated April 30, 2008. Plan Approval Transmittal Number W111477, issued on August 22, 2008 and amended on June 30, 2011 is still in effect.

I. HISTORY

- A. The Newark Group Inc., doing business as Newark America (the "Permittee") operates a paper recycling facility currently constructed at 85 Princeton Road, Fitchburg, Massachusetts. ("The Facility"). The Facility consists of oil and gas fired boilers, paper making machines and auxiliary equipment to recycle residential mixed and baled newspapers and magazines into graphic board using in-line laminating technology. The product produced is used in book covers, loose-leaf binder covers, displays, games and other applications. The air pollution control plan approval for the Facility TR # W022255 was approved in three parts. Part I and II approved the boilers and associated combustion emissions. Part III approved the process equipment and associated emissions.
- B. The fossil fuel utilization portion of the Facility was approved in two Parts. Part I, issued on November 9, 2001, approved installation of a new Nebraska boiler ("Boiler #2") with flue gas recirculation, a low NOx burner, restrictions on the existing Babcock and Wilcox boiler ("Boiler #1") to standby status and initiation of upgrades to the associated natural gas line supplying the Facility. Part II, Phases 1, 2 & 3, was approved January 4, 2002, and approved the replacement of the original low NOx burner on Boiler #2 with an ultra low NOx burner, lowered allowable emission rates, changed fuel of use restrictions and initiated an optimization program for emissions. Phase 3 further lowered annual emission rates and changed restrictions on fuel of use to reflect optimized operations of Boiler #2 with the ultra low NOx burner and reliance on gas as the primary fuel.
- C. Part III – Recycling Plan Approval Tr# W0222555, issued on January 28, 2002, allowed installation and operation of process equipment and established process equipment operating standards and associated emission limits. Plan Approval Tr# W111477, issued on August 22, 2008, replaced Plan Approval Tr# W0222555, and was later amended on June 30, 2011.
- D. On March 24, 2008 MassDEP issued air pollution control plan approval Tr# W200007 to replace approval Part II Tr#W022255. The March 24, 2008 approval did not authorize any changes in equipment. It allowed for more fuel of use flexibility, clarified how emission limits are calculated, and updated applicable requirements for the primary Nebraska high-pressure water tube boiler at the Facility. On April 30, 2008, MassDEP issued Administrative Amendment W200007-A to Plan Approval Tr# W200007 to correct some typographical errors and provide additional clarification for record keeping and emission testing.
- E. In response to the Administrative Amendment Application Transmittal Number X264820 dated April 6, 2015, MassDEP has made the following changes in Plan Approval Transmittal Number W200007-A:
1. Condition IV.F. contained a restriction on the Boiler No. 1 operation. That condition is now changed to, "EU #1, rated at 30 million Btu per hour, cannot be operated at the same time as EU #2 by restrictions imposed in this approval (except during periods of startup, shutdown, or tuning of EU #1) and is not subject to NSPS Subpart Db."
 2. Condition VI.A.3. contained a restriction on the Boiler No. 1 operation. That condition is now changed to, "EU #1 shall not be operated when EU #2 is in operation, except during periods of startup, shutdown, or tuning of EU #1."
 3. Minor changes and update for Conditions I.C., VI.A./B. and XI.A.

II. EMISSION UNIT IDENTIFICATION

The Permittee shall ensure that Boiler #1 referred to herein as Emission Unit (“EU”) #1 and Boiler #2 (EU #2) shall at all times be operated in accordance with the emission limits, restrictions, and specifications contained in this plan approval.

Table 1-Emission Units				
Emission Unit #	Description of Emission Unit	Manufacturer & Model No.	Design Capacity	Fuel
EU #1	High Pressure water tube boiler	B&W boiler # FM-10-70B equipped with Coen Model Delta NOx-16 low-NOx burner	30 MMBtu/hr	Natural Gas & Red Dye Distillate Oil
EU #2	High Pressure water tube boiler	Nebraska boiler, Model No.N2S-8/S-97SH equipped with a Todd Ultra Low NOx Burner (ULNB) and Flue Gas Recirculation (FGR)	230 MMBtu/hr.	Natural Gas & Red Dye Distillate Oil

MMBtu/hr = millions of British Thermal Units per hour

III. EMISSIONS

The burning of natural gas or red dye distillate oil will result in emissions to the ambient air of Particulate Matter (PM), Sulfur Dioxide (SO₂), Nitrogen Oxides (NO_x), Carbon Monoxide (CO) and Volatile Organic Compounds (VOCs).

IV. EMISSION LIMITS

- A. EU #2 is subject to Federal New Source Performance Standards 40 CFR 60 ("NSPS Subpart Db"), for boilers because it is rated at more than 100 million Btu per hour. The Permittee shall ensure that the subject boiler complies with the NSPS NO_x limit by equipping the boiler with an Ultra Low Oxides of Nitrogen Burner (ULNB) and Flue Gas Recirculation (FGR). NSPS Subpart Db limits emissions of NO_x to 0.10 pounds per million Btu ("lbs./MMBtu") when burning natural gas and distillate oil fired units with low heat release rates and 0.20 lb/MMBtu for natural gas-fired and distillate oil fired units with high heat release rates. EU #2 is a high heat release boiler. The NO_x emission limits for EU #2 set forth herein are at or below the Subpart Db limits.
- B. Short term emission limits (lb/MMBtu and lb/hr) established in Table 3 are expressed as one-hour block averages. The short term emission limits apply at all times except they do not apply for NO_x and CO during EU #2 start-ups, shutdowns and boiler tuning. NO_x and CO emissions during EU #2 start-ups, shutdowns and boiler tuning shall be limited as indicated in Table 4, and shall be included in an accounting of 12 month rolling total emission limits for EU #2 as established in Table 3.
- C. The Permittee shall demonstrate compliance with the lb/MMBtu, lb/hr and 12 month rolling total fuel and emission limits established in Table 3 using the following methods in order of priority:
 1. Stack Testing results as may be required by MassDEP in accordance with 310 CMR 7.13 and/or EPA;
 2. Data collected by Continuous Emission Monitors & Fuel of use monitors as required by this plan approval;
 3. Estimated Emissions based on calculations using equations noted in Section IV. E.

- D. The following equations shall be used, as appropriate, to calculate measured or estimated emissions for EU #2:
1. **lbs/MMBtu:** Measured and recorded by a MassDEP approved Continuous Emission Monitoring system ("CEMS") at one minute intervals. Compliance with the lbs/MMBtu limits shall be determined by averaging the measured results over one hour block periods.
 2. **Pound per hour:** for Gas = {Actual Gas Fired Heat Input (cubic feet per hour x 1,000 Btu/cubic feet) x (Actual lb/MMBtu as measured by CEMS, hourly average)}. For Oil = {Actual Oil Fired Heat Input (gallons per hour x 132,000 Btu/gallon¹) x (actual lb/MMBtu as measured by CEMS, hourly average)}
 3. **Fuel:** Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) + Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) plus total heat input (MMBtu) from previous 11 consecutive months (beginning on 1/01/08) by same method = < 1,224,000 MMBtu/yr.
 4. **NOx:** {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (Actual lb NOx /MMBtu as measured by CEMS, monthly average)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (actual lb NOx /MMBtu as measured by CEMS, monthly average)} plus total NOx from previous 11 consecutive months (beginning on 1/01/08) by same method = <24.0 tons per year.
 5. **CO:** {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (Actual lb CO /MMBtu as measured by CEMS, monthly average)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (actual lb CO /MMBtu as measured by CEMS, monthly average)} plus total CO from previous 11 consecutive months (beginning on 1/01/08) by same method = <34.1 tons per year.
 6. **SO2:** {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (0.001 lb/MMBtu)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (actual sulfur content from fuel analysis²) x (actual fuel density lb/gal from fuel analysis) x (2 lb SO2/lb sulfur)} plus total SO2 from previous 11 consecutive months (beginning on 1/01/08) by same method = <9.0 tons per year.
 7. **PM:** {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (0.01 lb/MMBtu)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (0.044 lb/MMBtu)} plus total PM from previous 11 consecutive months (beginning on 1/01/08) by same method = <16.3 tons per year.
 8. **VOC:** {Actual Gas Fired Heat Input (cubic feet per month x 1,000 Btu/cubic feet) x (0.001 lb/MMBtu)} + {Actual Oil Fired Heat Input (gallons per month x 132,000 Btu/gallon) x (0.005 lb/MMBtu)} plus total VOC from previous 11 consecutive months (beginning on 1/01/08) by same method = <1.8 tons per year.
- E. EU #1, rated at 30 million Btu per hour, cannot be operated at the same time as EU #2 by restrictions imposed in this approval (except during periods of startup, shutdown, or tuning of EU #1) and is not subject to NSPS Subpart Db.

¹ For calculating emissions when applying factors associated with Continuous Emission Monitors and fuel oil meters, or Emission Estimates the heat content of Natural Gas shall be 1,000 Btu per cubic foot and the heat content of Red Dye Distillate fuel oil shall be 132,000 Btu per gallon.

² Fuel analysis from supplier certification for each shipment of oil; monthly average of tank contents by calculation based on mass balance for fuel in and fuel out.

- F. Compliance with the lb/MMBtu, lb/hr and 12 month rolling total fuel and emission limits established in Table 2 shall be determined by emission compliance testing, if required, in accordance with 310 CMR 7.13 and the use of credible evidence including, but not limited to, parametric monitoring of boiler operations.
- G. Short term emission limits (lb/MMBtu and lb/hr) established in Table 2 are expressed as one-hour block averages and apply at all times the EU #1 is operating.

Table 2 - EU #1 Emission Limits & Restrictions					
Pollutant	Fuel of use				Tons per 12 month rolling total
	Natural Gas		Red Dye Distillate Oil		
	lbs/MMBtu	lbs/hr	lbs/MMBtu	lbs/hr	
NOx	0.100	3.0	0.140	4.2	2.30
CO	0.080	2.4	0.036	1.1	1.33
SO2	0.0006	0.02	0.054	1.62	0.88
PM	0.007	0.2	0.014	0.42	0.23
VOC	0.005	0.15	0.001	0.03	0.09
Visible Emissions	Opacity exclusive of uncombined water shall not exceed 10% for a period or aggregate period of time in excess of 2 minutes during any one-hour provided that at no time during the said 2 minutes shall the opacity exceed 20%.				
Operating Restrictions	a. Boiler rating capacity shall not exceed 30 MMBtu/hr at all times of operation. b. Calendar Month fuel usage shall be limited to no more than 21,600 MCF of natural gas and 154,000 gallons of red dye distillate oil with a sulfur content not to exceed 0.05% by weight. c. 12-month rolling total fuel usage shall be limited to no more than 32,400 MCF of natural gas and 231,400 gallons of red dye distillate oil with a sulfur content not to exceed 0.05% by weight.				

lbs/MMBtu = pounds per million British thermal units
 lbs/hr = pounds per hour
 MCF = thousands of cubic feet

Table 3-EU #2 Emission Limits & Restrictions					
Pollutant	Fuel of use				Tons per 12 month rolling total
	Natural Gas		Red Dye Distillate Oil		
	lbs/MMBtu	lbs/hr	lbs/MMBtu	lbs/hr	
NOx	0.011	2.40	0.100	21.9	24.0
CO	0.019	4.4	0.100	21.9	34.1
SO2	0.001	0.1	0.054	11.8	9.0
PM	0.010	2.3	0.044	10.1	16.3
VOC	0.001	0.3	0.005	1.1	1.8
Visible Emissions	Opacity exclusive of uncombined water shall not exceed 10% for a period or aggregate period of time in excess of 2 minutes during any one-hour provided that at no time during the said 2-minutes shall the opacity exceed 20%.				

Table 3–EU #2 Emission Limits & Restrictions	
Operating Restrictions	a) Boiler rating capacity shall not exceed 230 MMBtu/hr at all times of operation. b) Fuel of use shall be natural gas and distillate fuel oil. Fuel oil shall have a sulfur content not to exceed 0.003%S by weight and is limited to no more than 4,500,000 gallons of red dye distillate fuel oil over any 12 month rolling total period. Distillate fuel oil with a sulfur content of 0.05%S by weight shall not exceed 500,000 gallons during the period starting September 18, 2007 and ending at the end of the boilers life unless superseded by a later Approval. At any time EU #2 uses fuel oil with 0.05%S, the limit of 4,500,000 gallons of 0.003%S oil will be decreased gallon for gallon by the amount of 0.05%S oil used. c) 12 month rolling total fuel usage (gas and oil) shall be limited to 1,224,000 MMBtu/yr.

H. Emissions from EU #2 that occur during start up, shut down, soot blowing and boiler tuning shall not exceed the limits in Table 4.

Table 4 - EU #2 – Start Up, Shut Down, Soot Blowing and Boiler Tuning Emission Limits		
	Natural Gas	Red Dye Distillate Oil
Pollutant	Pounds per startup event	Pounds per Startup event
NOx	19.2	175
CO	126	258
Visible Emissions	Opacity exclusive of uncombined water shall not exceed 20% for a period or aggregate period of time in excess of 2 minutes during any one-hour provided that at no time during the said 2 minutes shall the opacity exceed 40%.	
Operating Restrictions	Startups shall not exceed 8 hours in length and shall terminate when the boiler reaches steady state operating conditions at the desired load. If there is an interruption in startup where the boiler is down for repair for more than 1 hour, then the interruption is not included in this 8-hour limit.	

V. NOISE LIMITATIONS AND CONTROL REQUIREMENTS

A. Regulation 310 CMR 7.10 (Noise) prohibits excessive noise that may cause a condition of air pollution. MassDEP Noise Policy 90-001 provides that an increase in sound by more than 10dBA over the existing L90 ambient level (1-hour A-weighted), unless otherwise specified will be considered a violation of the air quality regulations. Additionally, pure tone sounds, defined, as any octave band level which exceeds the levels in adjacent octave bands by 3dBA or more, will also be a violation.

B. Noise Limits

The Facility shall be designed, constructed, operated and maintained such that at all times:

- a. No condition of air pollution will be caused by emissions of sound as provided in 310 CMR 7.01; and
- b. No sound emissions resulting in noise will occur as provided in 310 CMR 7.10 and MassDEP’s Policy 90-001.

- C. The Permittee shall install and have operational noise suppressants (mufflers) on all steam release vents so that sound emissions from EU #1 and EU #2 will not cause or contribute to a condition of air pollution.

VI. SPECIAL CONDITIONS

A. EU #1

1. EU #1 shall be equipped with a Coen Model Delta NOx-16 low-NOx burner system (or equivalent) capable of burning natural gas or red dye distillate oil at a rate not to exceed 30 million Btu per hour input. The Permittee shall notify MassDEP in writing at least thirty (30) days prior to replacing or modifying the Coen burner.
2. The emissions from EU #1 shall be emitted to the ambient air through an existing round metal stack. The stack height shall be at least 65 feet above ground level with an inside exit diameter of at least 4.33 feet.
3. EU #1 shall not be operated when EU #2 is in operation, except during periods of startup, shutdown, or tuning of EU #1.
4. The Permittee shall install, certify and operate a fixed fuel orifice on the EU #1 to physically restrict the flow of fuel to the boiler to no more than 214 gallons per hour of fuel oil and 30,000 cubic feet per hour of natural gas.
5. Sulfur content of natural gas shall be as contained in the gas as supplied via the gas company supply pipeline.
6. EU #1 shall be equipped with appropriate fuel flow meter(s) to monitor the fuel flow of natural gas and fuel oil.
7. The Permittee shall maintain on site the operating and maintenance procedures for the burner.

B. EU #2

1. EU #2 shall be equipped with a Todd Ultra Lo-NOx burner system capable of burning natural gas or red dye distillate oil. The Permittee shall not modify or change the burner on EU #1 without MassDEP written approval.
2. EU #2 shall be physically restricted to a fuel-firing rate not to exceed 230 million Btu per hour input. (Approximately equivalent to 230,000 cubic feet per hour of natural gas or 1742 gallons per hour of red dye distillate oil with a Btu per gallon value of 132,000.)
3. The Permittee shall install, calibrate, maintain and operate a fuel-metering device and recorder for each fuel of use for EU #2.
4. The emissions from EU #2 shall be emitted to the ambient air through a new round metal stack. The stack height shall be at least 80 feet above ground level with an inside exit diameter of five feet.
5. The Permittee shall maintain on site the operating and maintenance procedures for the EU #2 burner.

6. The Permittee shall comply with the requirements of 40 CFR Part 60, Subpart Db for EU #2.

VII. RECORD KEEPING REQUIREMENTS

- A. The Permittee shall maintain an on-site record keeping system for each emission unit. All records shall be maintained up-to-date such that the year-to-date information is readily available for MassDEP examination. The Permittee shall keep all required records on site for five (5) years and make them available for inspection by MassDEP personnel upon request. The records shall include:
 1. Operating and Maintenance log books. These log books shall contain the following information on a daily basis.
 - a. Date and hours of operation of each boiler, fuel of use, date and time of any cold start-ups and complete shutdowns.
 - b. Date, time and description of any maintenance performed on each boiler, monitoring systems, breeching or stack.
 - c. Fuel inventory including the total amount and type of fuel burned on a monthly basis and fuel delivery records that show the type of oil and sulfur content of the fuel oil delivered.
 - d. Name of Company delivering the fuel oil including as a minimum, date of delivery, amount of fuel and truck ID number.
 - e. Name of natural gas supplier.
 2. Monthly records to document compliance with the emission limits and operating restrictions noted herein, including CEM & COM records, data collected and date, time and results of all calibrations and maintenance performed on the CEM and COM systems.
 3. Records of the occurrence and reporting to MassDEP of any UPSETS or MALFUNCTIONS to the Facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the ambient air and/or a condition of air pollution.
 4. Sufficient records of operation and monitoring information for the preparation of a Source Registration/Emission Statement form as required by 310 CMR 7.12(3).

VIII. REPORTING REQUIREMENTS

- A. By January 31 and July 31, of each year the Permittee shall submit to the attention of the Permit Chief, Bureau of Air and Waste, DEP Central Region, a semi-annual compendium of the latest 6 months emissions. Records of these emissions shall be maintained on-site for at least the five (5) most recent years, and shall be made available to MassDEP personnel upon request.
- B. In accordance with 310 CMR 7.12(2), the Facility shall register on a form obtained from MassDEP such information as MassDEP may specify including the nature and amounts of emissions from the Facility, information which may be needed to determine the nature and amounts of emissions from the Facility, and any other information pertaining to the Facility which MassDEP requires.

- C. MassDEP, Central Region, Bureau of Air and Waste, Compliance and Enforcement Section Chief must be notified by telephone or fax as soon as possible and in writing within two business days after the occurrence of any UPSETS or MALFUNCTIONS to the Facility equipment, air pollution control equipment, or monitoring equipment which result in an emission that exceeds the limits contained in this plan approval and/or causes a condition of air pollution.
- D. Upon written request from MassDEP the Permittee shall submit such records as may be determined by MassDEP to be necessary to ascertain compliance with the provisions of this approval. Said information shall be submitted to MassDEP within 30 days of the request or within a longer time period as indicated in writing by MassDEP. Said response shall be transmitted on paper, on computer disk, or electronically at the discretion of MassDEP.

IX. TESTING REQUIREMENTS

- A. In accordance with 310 CMR 7.13, MassDEP may require testing of any pollutants if deemed necessary to ascertain the mass emission rates and relationship to equipment design and operation. The Permittee shall conduct stack testing when MassDEP has determined that such stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisions. Such stack testing shall be:
 - 1. Conducted by a person knowledgeable in stack testing, and
 - 2. Conducted in accordance with the procedures contained in a test protocol, that has been approved by the Department, and
 - 3. Conducted in the presence of a representative of MassDEP, as may be deemed necessary by MassDEP.
- B. The Permittee shall comply with all compliance testing and demonstration testing as identified in subpart Db and in accordance with the timelines for conducting such testing as noted therein.
- C. Emission Testing to demonstrate compliance with the Emission Limits specified herein shall be in accordance with EPA approved reference test methods unless otherwise approved by EPA and MassDEP. The Facility will be constructed to accommodate emission-testing requirements contained herein. Two outlet-sampling ports (90 degrees apart from each other) for every emission unit must be located at a minimum of one duct diameter upstream and two duct diameters downstream of any flow disturbance. All emission testing shall be conducted in accordance with MassDEP's "Guidelines for Source Emission Testing" and in accordance with the Environmental Protection Agency tests as specified in the Code of Federal Regulations Title 40, Part 60, Appendix A...Standards of Performance for New Stationary Sources of Air Pollution.
- D. In accordance with 310 CMR 7.13, MassDEP may require testing for other pollutants if deemed necessary to ascertain the mass emission rates and relationship to equipment design and operation.
- E. The Permittee shall submit a pre-test protocol, describing the test methods. The protocol shall also include the sampling point locations, sampling equipment and sampling and analytical procedures as well as the boiler operating conditions during the testing. The required testing must be submitted to this Office, attention Bureau of Air and Waste Permit Chief, for review and MassDEP approval at least thirty (30) days prior to the commencement of emission testing at the facility.
- F. The final emissions test results report must be submitted to this Office, attention Bureau of Air and Waste Permit Chief, within sixty (60) days of completion of said testing.

X. MONITORING REQUIREMENTS

- A. The Permittee shall install, calibrate, test and operate a Data Acquisition and Handling System(s) ("DAHS"), a Continuous Opacity Monitoring System ("COMS") and a Continuous Emission Monitoring System ("CEMS") to measure and record the following emissions for EU #2:
1. Oxygen (O₂),
 2. Oxides of Nitrogen (NO_x),
 3. Carbon Monoxide (CO), and
 4. Opacity.
- B. The Permittee shall maintain an adequate supply of spare parts on-site to maintain the DAHS, COMS and CEMS equipment.
- C. Equipment or emission monitoring systems installed for the purpose of documenting compliance with this approval shall be installed, calibrated, maintained and operated by the Permittee in sufficient manner to ensure continuous and accurate operations at all times. The Permittee shall monitor the operations of the entire Facility such that necessary information is available for the preparation of the Source Registration/Emission Statement Forms as required by 310 CMR 7.12.
- D. The Permittee shall ensure that all emission monitors and recording equipment required by this plan approval, for EU #1 and/or EU #2, comply with MassDEP approved performance and location specifications.
- E. The Permittee shall equip the COMS and CEMS with audible and visible alarms to activate whenever emissions from EU #2 exceed the limits established in this approval. A portable emissions analyzer shall be utilized to measure NO_x, CO, and O₂ during the investigation of any alarm condition and necessary corrective action shall be taken to bring the boiler to within approved levels, except during start-ups and shut-downs.
- F. The Permittee shall operate the COMS and CEMS servicing EU #2 at all times except for periods of preventive maintenance, and periods of unavoidable malfunction. If the CEMS becomes inoperative for any reason, the Permittee shall use the portable emissions analyzer to measure NO_x, CO, and O₂ once per shift during any CEMS downtime and shall record the results. All records shall be maintained on-site for a minimum of five years and shall be made available to MassDEP personnel upon request.
- G. The Permittee shall obtain and record emission data from each CEMS and either of two existing COMS servicing the proposed Facility for least 75% of the emission unit's operating hours per day, for at least 75% of the emission units' operating hours per month and for at least 95% of the emission unit's operating hours per quarter, except for periods of CEMS and COMS calibration check, zero and span adjustments and preventive maintenance.
- H. All periods of excess emissions from EU #2, even if attributable to an emergency or malfunction shall be quantified and included by the Permittee in the determination of emissions and compliance with the emission limits as stated in this Approval. ("Excess Emissions" are defined as emissions, which are in excess of the short-term or 12 month rolling total emissions as stipulated herein.). An exceedance of emission limits herein due to an emergency or malfunction shall not be deemed a federally permitted release as that term is used in 42 U.S.C. Section 9601(10). The burden of demonstrating that an emergency or malfunction has occurred is the responsibility of the Permittee.
- I. A quality assurance/quality control (QA/QC) program must be developed for the long-term operation of the CEMS servicing EU #2.

- J. The QA/QC program must be submitted in writing, and reviewed and approved in writing by MassDEP no later than sixty (60) days after commencement of facility operation. Any subsequent changes to the program shall be approved by MassDEP.
- K. The Permittee shall allow MassDEP to witness tuning of EU #2 when requested by MassDEP.
- L. The Permittee shall install, calibrate, maintain and operate opacity monitoring/recording equipment and alarms in sufficient manner to ensure continuous and accurate operation at all times for EU #2.
- M. In accordance with 310 CMR 7.04(4)(a), each emission unit shall be inspected and maintained in accordance with the manufacturer's recommendations and tested for efficient operation at least once in each calendar year. The results of said inspection maintenance and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the permitted equipment.

XI. GENERAL CONDITIONS

- A. This approval supersedes Tr# W200007-A in its entirety. Should there be any differences between this approval letter and the data submitted in the air pollution control plan applications Tr# W022255, Tr# W200007 and Tr# W200007-A, the terms of this approval letter shall govern.
- B. OPERATION - No person shall operate this Facility except in conformance with the requirements established in this Approval.
- C. SUSPENSION - This approval may be suspended, modified, or revoked by MassDEP if, at any time, MassDEP determines that the Facility is violating any condition or part of the approval.
- D. OTHER REGULATIONS - This approval does not negate the responsibility of the owner/operator to comply with this or any other applicable federal, state or local regulations now or in the future. Nor does this approval imply compliance with any other applicable federal, state or local regulation now or in the future.
- E. EXISTING APPROVALS - Unless otherwise indicated in this approval, all plan approvals issued under 310 CMR 7.02(2) prior to the effective date of this Approval shall continue to be in effect. The facility shall meet the emission rates and approved conditions specified in the applicable plan approval(s) unless specifically altered by this Approval.
- F. VISIBLE EMISSIONS - Unless otherwise indicated in this approval, the Facility shall be operated in a manner to prevent the occurrence of visible emissions, which cause or contribute to a condition of air pollution as defined in Regulation 310 CMR 7.01 and 7.06.
- G. DUST AND ODOR - The Facility shall be operated in a manner to prevent the occurrence of dust or odor conditions, which cause or contribute to a condition of air pollution as defined in Regulation 310 CMR 7.01 and 7.09.
- H. ASBESTOS - Should asbestos remediation/removal be required because of this Approval, such asbestos remediation/removal shall be done in accordance with Regulation 310 CMR 7.15.
- I. MODIFICATIONS - Any proposed increase in emissions above the limits contained in this Approval must first be approved in writing by MassDEP pursuant to 310 CMR 7.02. In addition, any increase may subject the Facility to additional regulatory requirements.

- J. REMOVAL OF AIR POLLUTION CONTROL EQUIPMENT - No person shall cause, suffer, allow, or permit the removal, alteration or shall otherwise render inoperative any air pollution control equipment or equipment used to monitor emissions which has been installed as a requirement of 310 CMR 7.00, other than for reasonable maintenance periods or unexpected and unavoidable failure of the equipment, provided that MassDEP has been notified of such failure, or in accordance with specific prior written approval of MassDEP.
- K. The Permittee shall post copies of this Approval letter adjacent to EU #2.
- L. A copy of the Standard Operating and Maintenance Procedures for EU #2 shall be located at or nearby the subject equipment.
- M. The Permittee shall allow MassDEP personnel access to the plant site, buildings, and all pertinent records at all reasonable times for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.

XII. LIST OF PERTINENT INFORMATION

Name of Facility: Newark America

Location: 100 Newark Way

Submitted By: Epsilon

Attested To By: Dale T. Raczynski, P.E. Number 36207

1. MassDEP Air Pollution Control Plan Approval letter Tr# W022255-Part II dated January 4, 2002 as issued to Newark America, 100 Newark Way, Fitchburg, Massachusetts. (and NMCPA application Tr# W022255).
2. Non-Major Comprehensive Plan Application Tr# W200007, Date Received: December 18, 2007
3. MassDEP Air Pollution Control Plan Approval Tr# W200007 dated March 24, 2008 as issued to Newark America, 100 Newark Way, Fitchburg, Massachusetts
4. Epsilon letter dated April 8, 2008: Subject - Comments on NMCPA Transmittal W200007, Newark America Non-Major Comprehensive Plan Approval - Boiler, dated March 24, 2008
5. Administrative Amendment Application Transmittal Number X264820, dated April 6, 2015

XIII. APPEAL

This Plan Approval is an action of MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing. A request for a hearing must be made in writing and postmarked within twenty-one (21) days of the date of issuance of this Plan Approval.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts, which are the grounds for the request, and the relief sought. Additionally, the request must state why the Plan Approval is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to the Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

This request will be dismissed if the filing fee is not paid, unless the appellant is exempt or granted a waiver as described below. The filing fee is not required if the appellant is a city or town (or municipal agency), county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

MassDEP may waive the adjudicatory hearing-filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

Enclosed is a stamped approved copy of the application submittal.

Should you have any questions concerning this Plan Approval, please contact Hui Liang by telephone at 508-767-2762, or in writing at the letterhead address.

Yours truly,

This final document copy is being provided to you electronically by the
Department of Environmental Protection. A signed copy of this document
is on file at the DEP office listed on the letterhead.

Roseanna E. Stanley
Permit Chief
Bureau of Air and Waste

ecc: MassDEP/Boston - Yi Tian
Epsilon Associates, Inc.