



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Central Regional Office • 8 New Bond Street, Worcester MA 01606 • 508-792-7650

Charles D. Baker
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Secretary

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Commissioner

December 1, 2015

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

RE: Fitchburg
Transmittal No.: X267116
Application No.: CE-15-017
Class: SM80-R
FMF No.: 343837
**RESTRICTED EMISSION STATUS
APPROVAL**

Dear Mr. Pelletier:

MassDEP has determined that the referenced Restricted Emission Status Application ("RES") is administratively and technically complete. MassDEP hereby approves the RES Application legally limiting the amount of federal potential emissions from your manufacturing facility located at 100 Newark Way in Fitchburg, Massachusetts ("Facility") through a restriction on the raw materials used and/or another restriction as noted herein.

This RES APPROVAL is being issued in accordance with 310 CMR 7.02(9) of the Air Pollution Control Regulations ("Regulations"), 310 CMR 7.00 as adopted pursuant to M.G.L. c.111, Section 142 A –O.

Included as part of this RES APPROVAL are the following:

- Stamped approved BWPAQ-09 RES Application Form,
- Special Conditions for RES,
- General Conditions for RES, and
- Appeal Rights

Notice of the proposal to approve the RES was published in local newspapers in accordance with the requirements of 310 CMR 7.02(9). No comments were received.

Please review the entire RES Approval carefully as it stipulates the particular conditions the facility owner/operator must comply with for the facility to be operated in compliance with the Regulations.

MassDEP has determined that the filing of an Environmental Notification Form ("ENF") with the Secretary of Environmental Affairs, for air quality purposes, was not required prior to this action by MassDEP. Notwithstanding this determination, the Massachusetts Environmental Policy Act and Regulation 310 CMR 11.00, Section 11.04, provide certain "Fail-Safe Provisions" which allow the Secretary to require the filing of an ENF and/or Environmental Impact Report at a later time.

Should you have any questions concerning this Approval, please contact me at (508) 767-2845.

Sincerely,

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: Fitchburg Board of Health
MassDEP/Boston - Yi Tian
Daniel Fefer, Epsilon Associates, Inc

I. SPECIAL CONDITIONS FOR RESTRICTED EMISSION STATUS APPROVAL

A. FACILITY DESCRIPTION

The Newark Group Inc., doing business as Newark America (the "Permittee") operates a paper recycling facility currently located at 85 Princeton Road, Fitchburg, Massachusetts. (the "Facility"). The Facility consists of oil and gas fired boilers, a single paper making machine and auxiliary equipment to recycle residential mixed and baled newspapers, magazines and old corrugated containers into a recycled board product. The product produced is used in a variety of industrial and commercial applications such as corrugated containers and spiral wound tubes. The Facility has permanently decommissioned one of its graphic board paper making machines (GBM) which was designated as EU 4 in the Facility's Air Permits. The Permittee filed an Administrative Amendment Application Tr. No. X266063 dated July 1, 2015, to revise the existing Plan Approval Tr. No. W111477 by removing all references to EU 4. MassDEP approved Tr. No X266063 on September 29, 2015.

As a result of this decommissioning, the potential facility-wide emissions of Hazardous Air Pollutants (HAP) have been decreased below major source thresholds. Additionally, Plan Approval Tr. No X266063 reduced the emissions of particulate matter (PM) and volatile organic compounds (VOC) as well as reducing the limit on the amount of Air Dried Tons of Finished Product (ADTFP).

The Permittee filed a Restricted Emission Status application Tr. No. X267116 on September 15, 2015 to restrict the facility-wide potential emissions of individual HAP, Total HAP, and VOC.

The change in source designation from major to area source of HAP affects the two steam boilers (EU1 and EU2 in Plan Approval Tr. No. X264820). The boilers will no longer be subject to Major Source Boiler MACT (40 CFR 63 Subpart DDDDD) as this change in classification is occurring before the compliance date of January 31, 2016. Instead the boilers are now subject to Area Source Boiler MACT (40 CFR 63 Subpart JJJJJ (6J)). EU 2 still remains subject to federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart Db, as it is rated at more than 100 million Btu per hour.

The Facility has one fire pump engine (diesel-fired compression ignition) installed June 13, 2003 (EU 5). It is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for stationary reciprocating internal combustion engines (RICE) (40 CFR Part 63, Subpart ZZZZ for existing emergency engines at Area Sources of HAP). This unit is rated at 160 hp, which corresponds to an energy input rating below 3 million British thermal units per hour (MMBtu/hr). Based on these specifications, EU5 is exempt from needing a MassDEP Plan Approval, pursuant to 310 CMR 7.02(2)(b)(29) and 310 CMR 7.03(10).

B. EQUIPMENT DESCRIPTION

Each Emission Unit (“EU”) identified in Table 1 is subject to and regulated by this RES Approval:

Table 1			
EU	Description of Emission Unit	EU Design Capacity	Pollution Control Device (PCD)
1	B&W high-pressure boiler Model No. FM-10-70B equipped with Coen Model Delta NOx-16 low NOx burner	30 MMBtu/hr	Low NOx Burner and Combustion Controls
2	Nebraska boiler, Model No.N2S-8/S-97SH equipped with a Todd Ultra Low NOx Burner (ULNB)	230 MMBtu/hr.	Ultra Low Oxides of Nitrogen Burner (ULNB) and Flue Gas Recirculation
3	Paper Machine No.1	502 ADTFP per day	None
5	Diesel Emergency Fire Pump	160 hp	None

Table 1 Key:

EU = Emission Unit Number

PCD = Pollution Control Device

ADTFP = Air Dried Tons Finished Product

C. EMISSION LIMITS (SHORT TERM & LONG TERM)

The Permittee is subject to, and shall not exceed, the Emission Limits as contained in Table 3:

Table 3			
EU	Air Contaminant	Emission Limit TPM	Emission Limit TPY
Facility Wide ¹	VOC	3.6	30.3
	Single HAP	0.8	6.9
	Total HAP	2.7	24.5

Table 2 Key:

EU = Emission Unit

HAP (single) = maximum single Hazardous Air Pollutant (Methanol)

HAP (total) = total Hazardous Air Pollutants.

TPM = tons per month

TPY = tons per consecutive 12-month period

VOC = Volatile Organic Compounds

Table 1 Note:

1. Facility wide totals includes emissions from the emergency generator operating for 8760 hours per year

D. PRODUCTION LIMITS

The Facility is restricted to a Paper Products Production of less than or equal to 15,550 Air Dried Tons Finished Product (ADTFP) per month and less than or equal to 130,000 ADTFP per year.

The VOC concentration of the three types of additives will be limited as follows: dyes (45 % by weight), on-line cleaners (10 % by weight), biocides (5 % by weight). Furthermore, MassDEP's letter of June 30, 2011 also provided approval for the Facility to use the following selected process additives:

- Passaic Brown Dye
- Nalco 62501 Re-wet
- Nalco DR 131 plus Re-wet
- Nalco 7450 Size, and
- Various starches.

E. OPERATING LIMITS

EU 1

1. EU 1 shall not be operated when EU 2 is in operation, except during periods of startup, shutdown, or tuning of EU #1 and is not subject to NSPS Subpart Db.
2. Boiler rating capacity shall not exceed 30 million Btu per hour at all times of operation.
3. The calendar month fuel usage shall be limited to no more than 21,600 thousand cubic feet of natural gas and 154,000 gallons of red dye distillate oil with a sulfur content not to exceed 0.05% by weight.
4. The 12-month rolling total fuel usage shall be limited to no more than 32,400 thousand cubic feet of natural gas and 231,400 gallons of red dye distillate oil with a sulfur content not to exceed 0.05% by weight.

EU 2

1. Boiler rating capacity shall not exceed 230 MMBtu/hr at all times of operation.
2. The calendar month fuel usage shall be limited to no more than 171,120 MMBtu/month of natural gas and 1,296,364 gallons of red dye distillate oil with a sulfur content not to exceed 0.003% by weight.
3. The 12-month rolling total fuel usage shall be limited to no more than 1,224,000 MMBtu/yr of natural gas and 4,500,000 gallons of red dye distillate oil with a sulfur content not to exceed 0.003% by weight.
4. 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.
5. 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.
6. The 12 month rolling total fuel usage (gas and oil) shall be limited to 1,224,000 MMBtu/yr

F. MONITORING REQUIREMENTS

EU 2

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

EU 3

The Permittee shall track the usage of all raw materials used in the Facility.

EU 5

Pursuant to 40 CFR 63.6625(f), the Permittee shall install a non-resettable hour meter if one is not already installed.

G. RECORD KEEPING REQUIREMENTS

See GENERAL CONDITION K. below.

EU 1 and EU 2

The Permittee shall be required to maintain fuel purchase receipts on file and fuel and operational usage logs for the subject emission units which must reflect actual fuel usage in EU1 and EU2 and operating hours, individually, both on a monthly and consecutive twelve month time period basis. Said fuel usage logs shall also contain: the total fuel usage for each type of fuel burned each month, the sulfur content of fuel oil used, the resulting monthly emissions from said fuel usage, and the total fuel usage and resulting emissions on a consecutive twelve month time period basis (the total from the current month's fuel usage plus the sum of fuel usage for the eleven months preceding the current month).

EU 3

The Permittee shall keep Operation and Production log books. These log books shall contain the following information:

1. The name and amount of all VOC containing materials used in the Facility (per month)
2. Name and amount of chemicals used per ADTFP of product produced (per day)

3. Finished production material (ADTFP per month)
4. Date and hours of operation of the recycling operation. (daily),
5. Name of Company(s) delivering the raw material including as a minimum, date of delivery, amount of paper waste and truck ID number and company contact name and phone number.

EU 5

The Permittee shall keep operating time logs which contain: the total operating hours per month, the sulfur content of fuel oil used, the resulting monthly emissions from said fuel usage, and the total fuel usage and resulting emissions on a consecutive twelve month time period basis.

H. REPORTING REQUIREMENTS

See GENERAL CONDITION L. below.

1. Facility personnel shall submit a Restricted Emission Status Exceedance Report (RESER) to MassDEP should it exceed any limitation/restriction established within this RES Approval. Said RESER shall be submitted to this Office within seven (7) days of documentation of the exceedance of any limitation/restriction by Facility personnel. The RESER shall include identification, duration, and reason for the exceedance, and remedial action plan to prevent future exceedances.
2. Facility personnel shall be required to submit, on or before March 15th of each year, an Annual RES Compliance Report (ARESCR) to the Central Regional Office of MassDEP that documents the compliance status of the facility, for the previous Calendar Year, with respect to the limitations/restrictions established within this RES Approval. Facility personnel shall utilize MassDEP's Annual Emissions Reporting Form, available in interactive Microsoft Excel format at <http://www.mass.gov/dep/air/approvals/aqforms.htm#report>.

II. **GENERAL CONDITIONS FOR RESTRICTED EMISSION STATUS APPROVAL**

- A. OPERATION - No person shall operate this Facility except in conformance with the requirements established in this Restricted Emission Status Approval.

- B. SUSPENSION, MODIFICATION, AMENDMENT OR REVOCATION – This approval may be suspended, modified, amended or revoked by MassDEP if, at any time, MassDEP determines that the facility is violating any condition or part of this approval. This approval may be modified or amended when in the opinion of MassDEP a modification or amendment is necessary or appropriate to clarify the approval conditions or after consideration of a written request by the Permittee to amend the approval conditions. Any relaxation of an emission limit or a specific condition noted in this approval that would result in an increase in emission rates as established in this approval must be made in accordance with 310 CMR 7.02. Also see General Condition M.
- C. 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.
- D. EXISTING APPROVALS – The Permittee shall continue to meet the emission rates and approved conditions specified in the applicable air pollution control plan approval(s) issued prior to the effective date of this RES Approval unless specifically altered by this RES Approval.
- E. VISIBLE EMISSIONS - The facility shall be operated in a manner to prevent the occurrence of visible emissions that cause or contribute to a condition of air pollution as defined in Regulation 310 CMR 7.01 and 7.06.
- F. DUST AND ODOR - The facility shall be operated in a manner to prevent the occurrence of dust or odor conditions that cause or contribute to a condition of air pollution as defined in Regulation 310 CMR 7.01 and 7.09.
- G. NOISE - Noise from the facility during routine operation, including startups and shutdowns, shall not exceed MassDEP noise guidelines and shall not cause a condition of air pollution as defined in Regulation 310 CMR 7.01 and 7.10.
- H. ASBESTOS - Should asbestos remediation/removal be required as a result of this RES Approval, such asbestos remediation/removal shall be done in accordance with Regulation 310 CMR 7.15.
- I. MONITORING - Equipment or emission monitoring systems installed for the purpose of documenting compliance with this approval shall be installed, calibrated, maintained and operated by the approval in sufficient manner to ensure continuous and accurate operations at all times.
- J. TESTING - Any emission testing to be compared to limitations in this approval must be conducted in accordance with the Environmental Protection Agency test methods as

specified in the Code of Federal Regulations, Title 40, Part 60, Appendix A - Standards of Performance for New Stationary Sources or by another method correlated to the above method to the satisfaction of MassDEP and in accordance with the requirements noted in 310 CMR 7.13.

In accordance with 310 CMR 7.04, each fuel utilization facility 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.

- K. RECORD KEEPING - A record keeping system shall be established and continued on site by the Permittee. All records shall be maintained up-to-date such that twelve-month rolling period information is readily available for Department examination. Record keeping shall, at a minimum, include:
1. Compliance records sufficient to demonstrate that emissions have not exceeded what is allowed by this RES Approval. Such records may include daily production records, raw material usage rates, fuel purchase receipts, emissions test results, monitoring equipment data and reports.
 2. Maintenance: A record of routine maintenance activities performed on emission unit control equipment and monitoring equipment including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
 3. Malfunctions: A record of all malfunctions on emission unit control and monitoring equipment including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the emission unit returned to compliance.
 4. All records shall be kept on site for five (5) years and shall be made available to MassDEP upon request.
 5. Source Registration records, required pursuant to 310 CMR 7.12, shall be kept on-site for five (5) years and shall be made available to MassDEP upon request.
 6. Pursuant to the authority granted to MassDEP at 310 CMR 7.02 the facility shall maintain a copy of this approval, and any subsequent modifications of this approval, on-site for as long as the approval is valid.

L. REPORTING

1. In accordance with 310 CMR 7.12, the facility shall register on a form obtained from MassDEP such information as MassDEP may specify including:
 - a. A description of the facility, including a description of process and combustion equipment, a description of facility operating hours and operating schedule, a description of all raw materials and fuels used at the facility.
 - b. Detailed emissions estimates for all criteria and hazardous air pollutants emitted from the facility.
 - c. An emission statement summarizing and certifying actual annual emissions and peak ozone season day emissions of VOC and oxides of nitrogen.
 - d. A description of air pollution control equipment, including control efficiencies.
 - e. Calculations and assumptions used to support emissions such as annual fuel process rate and peak ozone season daily process rate.
 - f. Information required by 310 CMR 7.12(3) shall be submitted annually pursuant to 310 CMR 7.12(2)(a).
2. The Regional Bureau of Air and Waste, Permit office, must be notified by telephone or fax as soon as possible after the occurrence of any upsets or malfunctions to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the air and/or a condition of air pollution.

M. MODIFICATIONS – Modifications to this RES Approval that do not increase the facility-wide limits set forth in this RES Approval must comply with the requirements of 310 CMR 7.02(10)(d) and (e). Any proposed increase in emissions above the limits contained in this RES Approval must first be approved in writing by MassDEP pursuant to 310 CMR 7.02(10)(b), (c) and (f). In addition, any increase may subject the Facility to additional regulatory requirements.

N. REMOVAL OF AIR POLLUTION CONTROL EQUIPMENT - Notwithstanding 310 CMR 7.02(2)(b)2., 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 written approval of MassDEP.

O. COMPLIANCE ASSURANCE FEE – Pursuant to 310 CMR 4.03, an annual fee, based on the Commonwealth’s fiscal year, will be charged to your facility to cover the cost of compliance activities performed by MassDEP, including registrations, report reviews,

inspections, source registration reviews, etc. No fee shall be charged in the fiscal year that the permit is issued. If multiple air quality permits exist for a facility, the facility shall pay the single highest applicable fee. This fee does not include stack test fees.

III. APPEAL RIGHTS

This Final 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.