



COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 NORTHEAST REGIONAL OFFICE

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Mailed March 3, 2010

FINAL AIR QUALITY OPERATING PERMIT

Issued by the Massachusetts Department of Environmental Protection ("MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]:

Polartec, LLC
 46 Stafford Street
 Lawrence, Massachusetts 01841

FACILITY LOCATION:

Polartec, LLC
 46 Stafford Street
 Lawrence, Massachusetts 01841

NATURE OF BUSINESS:

Textile Manufacturing Plant
 With Steam Boiler Plant

RESPONSIBLE OFFICIAL:

Name: Andrew Vecchione
 Title: Chief Operating Officer

INFORMATION RELIED UPON:

Application No. MBR-95-OPP-064R
 Transmittal No. X228017

FACILITY IDENTIFYING NUMBERS:

SSEIS ID: 1210212
 FMF FACILITY ID: 130949
 FMF RO ID: 53792

STANDARD INDUSTRIAL CODE (SIC):

2262

NORTH AMERICAN INDUSTRY CLASSIFICATION CODE (NAICS):

313311

FACILITY CONTACT PERSON:

Name: Mr. Jihad Hajjar
 Title: Environmental Manager
 Phone: (978) 557-3452
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 Email: hajjar@polartec.com

This Operating Permit shall expire on March 3, 2015.

For the Department of Environmental Protection, Bureau of Waste Prevention

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.

James E. Belsky
 Section Chief

March 3, 2010
 Date

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SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00: Appendix C and applicable rules and regulations, the Permittee is authorized to operate air emission units as shown in Table 1 and exempt, and insignificant activities as described in 310 CMR 7.00:Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this Permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this Permit.

DESCRIPTION OF FACILITY AND OPERATIONS

Polartec, LLC is a textile manufacturing plant that produces synthetic knitted pile fabric for the apparel industry at their 46 Stafford Street, Lawrence, Massachusetts location. The fabric manufacturing operations include knitting, dyeing, printing, and finishing.

Polartec, LLC also operates a power plant consisting of four steam boilers at the Lawrence location. See Table 1 for detailed emission unit descriptions.

Tables 3, 4, 5, and 6, of this Operating Permit contain the air quality requirements and regulations to which Polartec, LLC is subject.

2. EMISSION UNIT IDENTIFICATION

Table 1

EMISSION UNIT (EU) NUMBER	DESCRIPTION OF EMISSION UNIT	EMISSION UNIT DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
BLR-1	Cleaver Brooks boiler # DL-76	69,500,000 Btu/hr	none
BLR-2	Cleaver Brooks boiler # DL-76	69,500,000 Btu/hr	none
BLR-3	Cleaver Brooks boiler # DL-76	69,500,000 Btu/hr	none
HS-1	Krantz #411 heatsetter oven #K10	2500 lbs/hr of fabric	Wet electrostatic precipitator (WESP) (ESP-16) EEC-420601 – (PCD-3)
HS-2	Krantz #412 heatsetter oven #K10	2500 lbs/hr of fabric	WESP (ESP-17) EEC-420601 – (PCD-4)
HS-3	Krantz #413 heatsetter oven #K10	2500 lbs/hr of fabric	WESP (ESP-18) EEC-420601 – (PCD-5)
HS-4	(2) Krantz #7,#8 heatsetter oven #K10-1	2500 lbs/hr of fabric	WESP (ESP-9) Beltran BTP 120 – (PCD-6)

Table 1

EMISSION UNIT (EU) NUMBER	DESCRIPTION OF EMISSION UNIT	EMISSION UNIT DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
HS-6	(2) Krantz #372,#373 heatsetter ovens #K10	2500 lbs/hr of fabric	WESP (ESP-12) Beltran 10X10 – (PCD-8)
HS-7	Stentex heatsetter oven #3300	1800 lbs/hr of fabric	WESP (ESP-19) – (PCD-9)
DR-1	Fleissner #4 fabric dryer	4800 lbs/hr of wet fabric	none
DR-2	Fleissner #5 fabric dryer	4800 lbs/hr of wet fabric	none
DR-3	Santex #1 fabric dryer	4800 lbs/hr of wet fabric	none
DR-4	Santex #2 fabric dryer	4800 lbs/hr of wet fabric	none
DR-5	Krantz #3 fabric dryer	2400 lbs/hr of fabric	none
DR-6	Krantz #4 fabric dryer	2400 lbs/hr of fabric	none
DR-7	Krantz #5 fabric dryer	2400 lbs/hr of fabric	none
HSDR-1	Monforts #1 and 2 washer/dryer and washer/dryer/heatsetter	2500 lbs/hr of dry fabric or 4800 lbs/hr wet fabric	Beltran 10X10 WESP (ESP)(ESP-13) – (PCD-11)
RPL-1	Zimmer TRIII rotary print machine #1 with print dryer	2400 lbs/hr of fabric	Beltran 10X10 WESP (ESP) (ESP-11) – (PCD-12)

+ Table 1 Key:

- lbs/hr = pounds per hour
- Btu/hr = British thermal units per hour
- # = number

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2

DESCRIPTION OF CURRENT EXEMPT ACTIVITIES	REASON
The list of current exempt activities is contained in the Operating Permit Application and shall be updated by the Permittee to reflect changes at the facility over the Permit term. An up-to-date copy of the exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP’s Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00: Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the emission limits/restrictions as contained in Table 3 below:

Table 3

EU #	RAW MATERIALS/ FUEL	RESTRICTIONS	POLLUTANT	EMISSION LIMIT/STANDARD	APPLICABLE REGULATION AND/OR APPROVAL NO.	
BLR-1, BLR-2, BLR-3 ²	Natural gas	N/A	NOx	0.07 lb/MMBtu ¹	310 CMR 7.19(5)(a) MBR-89-IND-128 MBR-95-COM-026 MBR-97-ECP-001	
	No. 6 fuel oil ²	3,800,000 gallons per calendar year or a maximum of 2,640 hours (for each individual boiler) of fuel oil combustion between November 1 and April 30, whichever is more restrictive. ²	N/A	N/A	MBR-89-IND-128 MBR-95-COM-026	
			NOx	0.30 lb/MMBtu ¹	310 CMR 7.19(5)(a) MBR-89-IND-128 MBR-95-COM-026 MBR-97-ECP-001	
			Sulfur in fuel	SO ₂	0.5% sulfur by weight	MBR-89-IND-128 MBR-95-COM-026 40 CFR 60.42c(d) *** MBR-97-ECP-001
			Nitrogen in fuel	NOx	0.39% fuel bound nitrogen by weight	MBR-97-ECP-001
	Natural gas and No. 6 fuel oil ²	N/A	PM	0.10 lb/MMBtu ¹	310 CMR 7.02(8)	
			CO	0.15 lb/MMBtu ¹ (200 ppmvd @ 3% O ₂)	310 CMR 7.19(5)(d) MBR-95-COM-026	
			Opacity	≤ 20 percent(6 minute average) except for one 6 minute period per hour of not more than 27% opacity	40 CFR 60.43c(C)	
	RPL-1	Print paste	<1,600 hours per 12 month rolling calendar period (Please see Section 5 of this permit for Special Conditions)	VOC	<0.5 lbs/lb of solids as applied 2.5 tons per month and 10 tons per 12 month rolling calendar period	MBR-02-IND-031
				PM	0.2 tons per month and 1.0 ton per 12 month rolling calendar period	
				PM capture efficiency for the PTE shall be 100 percent. Wet ESP minimum PM removal efficiency of 90% by weight or less than 1.0 pound per hour. ⁴		

Table 3

EU #	RAW MATERIALS/ FUEL	RESTRICTIONS	POLLUTANT	EMISSION LIMIT/STANDARD	APPLICABLE REGULATION AND/OR APPROVAL NO.
HS-1, HS-2, HS-3, HS-4, HS-6, HS-7, HSDR-1, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7	Textile finishing solutions	N/A	PM	<1 lb/hr for each emission unit	310 CMR 7.02(3)
HS-1, HS-2, HS-3, HS-4, HS-6, HS-7, HSDR-1, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7 RPL-1			VOC	<50 tons per year	MBR-95-OPP-064
			Individual HAP	<10 tons per year	MBR-95-OPP-064R
			Total HAPs	<25 tons per year	
Facility-wide	N/A	N/A	Opacity	< 20 percent, except 20 to < 40 percent for ≤ two (2) minutes during any one hour	310 CMR 7.06(1)(b)
			Smoke	< No. 1 of Chart ³ , except No. 1 to < No. 2 of Chart for ≤ six (6) minutes during any one hour	310 CMR 7.06(1)(a)

+ Table 3 Key:

EU	= emission unit	N/A	= not applicable
lb/MMBtu	= pound per million British thermal units	PM	= particulate matter
ppmvd	= parts per million volume, dry basis	VOC	= volatile organic compounds
O ₂	= oxygen	@	= at
NO _x	= nitrogen oxides	<	= less than
SO ₂	= sulfur dioxide	>	= greater than
CO	= carbon monoxide	≤	= less than or equal to
%	= percent	≥	= greater than or equal to
#, No.	= number	lb/hr	= pound per hour
PTE	= permanent total enclosure	ESP	= electrostatic precipitator
lbs/lb	= pounds per pound	HAP	= hazardous air pollutant

Notes for Table 3:

1 Compliance shall be based on a one hour averaging time.

2 Facility shall operate no more than three boilers at any one time, with fourth boiler used as back-up only. Facility can only burn No. 6 fuel oil with 0.5% sulfur by weight in BLR1-BLR-3, whenever natural gas is not available, as referenced in Approvals MBR-89-IND-128 and MBR-95-COM-026.

3 Chart means the Ringelmann Scale for grading the density of smoke, as published by the United States Bureau of Mines and as referred to in the Bureau of Mines Information Circular No. 8333, or any smoke inspection guide approved by MassDEP.

4 The PM capture efficiency for the PTE of the subject rotary print line shall be 100 percent. The wet ESP shall provide a minimum PM removal efficiency of 90 percent by weight for filterable particulate or a maximum hourly PM emission rate of less than 1.0 pound per hour, whichever is less stringent.

*** See Special Terms and Conditions Section 5 a) 2) of this Permit

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4, 5, and 6 below and 310 CMR 7.00: Appendix C (9) and (10), as well as the applicable requirements contained in Table 3:

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
BLR-1, BLR-2, BLR-3	<p>In accordance with 310 CMR 7.00: Appendix C(9)(b)2., monitor sulfur content of each new shipment of fuel oil received. Compliance with sulfur content can be demonstrated through testing or maintaining a shipping receipt from the fuel supplier. The fuel supplier’s fuel information or testing of sulfur content of fuel oil shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by MassDEP and EPA.</p> <p>Monitor on a daily basis the type of fuel(s) burned, the heat content of each fuel, and the total heating value of the fuel consumed as required in Approval MBR-97-ECP-001. Compliance with this requirement will be considered compliance with 40 CFR Part 60 Subpart Dc Section 60.48c(g).</p> <p>Monitor the number of gallons of No. 6 fuel oil burned, as well as the number of hours that No. 6 fuel oil fuel is burned to demonstrate compliance with the limits specified in Table 3 of this Permit as required in Approval No. MBR-89-IND-128 and Approval No. MBR-95-COM-026.</p> <p>Conduct annual compliance testing in accordance with 310 CMR 7.19(13)(c) and Approval MBR-97-ECP-001. Testing shall be performed before December 31st of each calendar year to demonstrate compliance with the applicable NOx and CO emission limits, as stated in Approval MBR-97-ECP-001. The compliance test shall be conducted in accordance with the USEPA test methodologies set forth in Code of Federal Regulations Title 40 CFR 60, Appendix A, or by such other methods approved by MassDEP. (See Section 5: Special Condition a.3 for exceptions)</p> <p>In accordance with 310 CMR 7.04(2)(a), maintain a smoke density instrument and recorder that is properly maintained in an accurate operating condition, operates continuously and is equipped with an audible alarm to signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart.</p> <p>Monitor certification from fuel suppliers for each shipment of No. 6 fuel oil that includes: the name of the oil supplier, and the nitrogen content of each shipment, as referenced in Final Approval MBR-97-ECP-001.</p>
RPL - 1	<p>Monitor the identity, quantity, formulation, and density of print pastes used as well as pounds of VOC and PM emitted in order to demonstrate compliance with the emission limits found in Table 3 of this Permit as specified in Final Approval MBR-02-IND-031.</p>
RPL-1	<p>Monitor the hours of operation of the subject rotary print line in order to demonstrate compliance with the 1600 hours of operation limit as required in Final Approval MBR-02-IND-031.</p>

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
	Monitor operations so that if any upset lasting 15 minutes or longer occurs with the control system, Polartec, LLC shall discontinue operation of the rotary print line until the wet ESP and any associated equipment in question are repaired and operating properly, as referenced in Final Approval MBR-02-IND-031. (see also Section 5: Special Terms and Conditions)
HS-1, HS-2, HS-3, HS-4, HS-6, HS-7, HSDR-1, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7 RPL-1	Monitor facility operations such that compliance with the restrictions and emission limitations/standards contained in Table 3 of this Permit can be determined in accordance with 310 CMR 7.02(3) and 310 CMR 7.00 Appendix C(9)(b)2 and incorporated herein by reference.
Facility-Wide	Inspect and maintain each fuel utilization facility, having an energy input capacity of ≥ 3 MMBtu/hr in accordance with manufacturer’s recommendations and test for efficient operation at least once in each calendar year as provided in 310 CMR 7.04(4)(a) incorporated herein by reference.
	Monitor facility operations such that compliance with the restrictions and emission limitations/standards contained in Table 3 of this Permit can be determined in accordance with 310 CMR 7.00: Appendix C(9)(b)2.
	Monitor all actions associated with environmental issues and overall emissions changes at the facility. In accordance with Final Approval MBR-02-IND-031, the facility shall monitor information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment (air, solvent waste, etc.) so that the record keeping required in Table 5 of this Permit can be performed.
	In accordance with 310 CMR 7.13(1), any person owning, leasing, operating or controlling a facility for which MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP’s regulations or design approval provisos shall cause such stack testing: (a) to be conducted by a person knowledgeable in stack testing, (b) to be conducted in accordance with procedures contained in a test protocol which has been approved by MassDEP, and (c) to be conducted in the presence of a representative of MassDEP when such is deemed necessary , and (d) to be summarized and submitted to MassDEP with analyses and report within such time as agreed to in the approved test protocol.
	Monitor facility operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.
	Monitor operations so that the occurrence of any upset or malfunction of any equipment can be identified so compliance with the reporting requirement in 310 CMR 7.00: Appendix C(10)(f) can be maintained (Table 6).
	Opacity shall be determined in accordance with EPA Test Method 9, as specified in 40 CFR Part 60, Appendix A, when requested by MassDEP or EPA. This method shall also apply to any detached plumes.

Table 5

EU#	RECORD KEEPING REQUIREMENTS
BLR-1, BLR-2, BLR-3	<p>Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2 and incorporated herein by reference, monitor sulfur content of each new shipment of fuel received. Compliance with 310 CMR 7.05(1)(d) for sulfur content of the fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by MassDEP and the United States Environmental Protection Agency (EPA). Fuel sulfur information may be provided by fuel suppliers fuel oil sulfur data per 40 CFR 60.48c(d), (e) based on fuel supplier certifications.</p> <p>Maintain records of smoke density equipment data in accordance with 310 CMR 7.04(2). For each period of excess opacity, the Permittee shall record the duration, cause, the response taken, and the amount of excess opacity.</p> <p>Maintain records on a daily basis of the type of fuel(s) burned each day, the heat content of each fuel, and the total heating value of the fuel consumed as required in Approval MBR-97-ECP-001. Compliance with this requirement will be considered compliance with 40 CFR Part 60 Subpart Dc Section 60.48c(g).</p> <p>Maintain records of the number of gallons of No. 6 fuel oil burned, as well as the number of hours that No. 6 fuel oil fuel is burned to demonstrate compliance with the limits specified in Approval Nos. MBR-89-IND-128 and MBR-95-COM-026.</p> <p>Maintain records of all data relevant to 310 CMR 7.19(13)(d) incorporated herein by reference. This data shall include, but not be limited to, performance evaluations, maintenance, and adjustments, and also excess emissions, daily fuel data, and fuel supplier certifications.</p> <p>Maintain records of fuel suppliers including the nitrogen content of each fuel shipment on site for a period of five years as required in Approval MBR-97-ECP-001.</p>
RPL-1	<p>Maintain a record of the quantity of VOC-containing print pastes used on RPL-1 on a monthly and twelve month rolling calendar basis, the VOC content of each print paste, and the actual VOC emissions on a monthly and twelve month rolling calendar period basis so that the report required in Approval MBR-02-IND-031 (Table 6) of this Permit can be filed. Said records shall be maintained on-site for, at a minimum, the most recent five (5) years, and shall be made available to MassDEP personnel upon request.</p> <p>Maintain a record of the hours of operation of the subject rotary print line in order to determine compliance with the 1600 hour restriction specified in Final Approval MBR-02-IND-031.</p> <p>Maintain a record of instances when the wet ESP control system becomes inoperable during printing operations, so that Polartec, LLC can notify MassDEP as required in Table 6. Said records shall include but shall not be limited to a description of the reason(s) for and the extent of downtime of the equipment and all steps that were taken to prevent said occurrence from recurring as referenced in Approval MBR-02-IND-031.</p>
HS-1, HS-2, HS-3, HS-4, HS-6, HS-7, HSDR-1, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7 RPL-1	<p>Maintain records such that compliance with the restrictions and emission limitations/standards contained in Table 3 of this Permit can be determined in accordance with 310 CMR 7.02(3) and 310 CMR 7.00 Appendix C(9)(b)2 and incorporated herein by reference.</p>
Facility-Wide	<p>The results of inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near each emission unit, as provided in 310 CMR 7.04(4)(a) incorporated herein by reference.</p> <p>Maintain records of fuel usage such that compliance with the monthly and twelve month rolling calendar period restrictions included in Table 3 and in Section 5.(b) of this Permit can be demonstrated as specified in 310 CMR 7.00: Appendix C(9)(b) 2.</p>

Table 5

EU#	RECORD KEEPING REQUIREMENTS
	<p>Polartec, LLC personnel shall record any information supplied to them relative to reducing overall emissions and pollution prevention techniques as required in Approval MBR-02-IND-031. This information as well as any progress towards decreasing overall emissions to the environment shall be recorded in an Environmental Logbook or equivalent record keeping system, which shall document all actions associated with environmental issues and overall emission changes at the facility. The facility shall record information such as the results of federal, state, or local environmental inspections; maintenance or corrective actions related to pollution control equipment; and measures taken to lower overall emissions to the environment</p>
	<p>The Permittee shall maintain records of all monitoring data and supporting information on site for a period of at least five years from the date of the monitoring sample, measurement, report or Operating Permit Renewal Application. Supporting information includes at a minimum, all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit, and any other information required to interpret the monitoring data. Records required to be maintained shall include, where applicable:</p> <ol style="list-style-type: none"> 1. The date, place as defined in the Permit, and time of sampling or measurements; 2. The date(s) analyses were performed; 3. The company or entity that performed the analyses; 4. The analytical techniques or methods used; 5. The results of such analyses; and 6. The operating conditions as existing at the time of sampling or measurement as provided in 310 CMR 7.00:Appendix C(10)(b) incorporated herein by reference. <p>Maintain fuel purchase records in order to demonstrate compliance with fuel sulfur content requirements as referenced in 310 CMR 7.05(4) and 7.05(1)a.</p>
	<p>Maintain a record of the results of any required testing so that the stack testing report can be submitted to MassDEP as provided in 310 CMR 7.13(1)(d) and incorporated herein by reference.</p>
	<p>Maintain records of facility operations such that information may be reported as required for compliance with 310 CMR 7.12, “Source Registration” incorporated herein by reference.</p>
	<p>Keep copies of all information supplied to MassDEP pursuant to 310 CMR 7.12 on site for five (5) years after the date the report is submitted as required in 310 CMR 7.12(3)(b) incorporated herein by reference.</p>

Table 6

EU#	REPORTING REQUIREMENTS
RPL-1	<p>Notify MassDEP by telephone or facsimile within three (3) business days after confirmation of any monthly or 12-month rolling calendar period exceedance of a VOC or PM emission limit as stated in Final Approval MBR-02-IND-031. This must be followed up within seven (7) days by submitting to this Office completed copies of the On-Site Record Keeping or Report Forms containing the information showing the exceedance and the steps being taken to prevent its reoccurrence in the future.</p> <p>Notify MassDEP within three (3) business days by facsimile and subsequently in writing within seven (7) business days should the wet ESP become inoperable during printing operations, as required in Approval MBR-02-IND-031. The written notification shall describe the reason for and the extent of down time of the equipment and all steps that have been or will be taken to prevent said occurrence from recurring.</p>
Facility-Wide	<p>Register annually on a form obtained from MassDEP such information as MassDEP may specify including:</p> <ol style="list-style-type: none"> 1. the nature and amounts of the emissions from the facility, 2. information which may be needed to determine the nature and amounts of emissions from the facility, and 3. any other information pertaining to the facility which MassDEP requires as provided in 310 CMR 7.12 incorporated herein by reference. <p>The results report of any required stack testing shall be submitted to MassDEP as provided in 310 CMR 7.13(1)(d) and incorporated herein by reference.</p> <p>Upon MassDEP's request, any record relative to the Operating Permit or to the emissions of any air contaminant from the facility shall be submitted to MassDEP within 30 days of the request by MassDEP or within a longer time period if approved in writing by MassDEP, and shall be transmitted on paper, on computer disk, or electronically at the discretion of MassDEP, pursuant to 310 CMR 7.00: Appendix C(10)(a) incorporated herein by reference.</p> <p>Submit by January 30 and July 30 for the previous six months respectively, a summary of all monitoring data and related supporting information to MassDEP as required by 310 CMR 7.00: Appendix C(10)(c). Said reports shall include both monthly and twelve month rolling period actual print paste usage and actual VOC emission totals as required in Table 3 of this Permit and Final Approval MBR-02-IND-031.</p> <p>Polartec, LLC shall submit an annual report to this Office, attention Bureau of Waste Prevention Permit Chief, by January 30th of the following year, summarizing its progress towards decreasing overall emissions to the environment. This report shall discuss alternative technologies or reformulated materials which have been or will be implemented at the subject facility as referenced in Final Approval MBR-02-IND-031.</p> <p>Promptly report to MassDEP all instances of deviations from Permit requirements (including but not limited to testing for efficient operation, fuel sulfur and emission limitations/standards) by telephone or fax, within three days of discovery of such deviation, as provided in 310 CMR 7.00: Appendix C(10)(f), incorporated herein by reference. (Please also see General Condition No. 25).</p> <p>Submit an Annual Compliance report by January 30 to MassDEP and EPA as required by General Condition No. 10 of this Permit.</p> <p>All required reports must be certified by a responsible official pursuant to 310 CMR 7.00: Appendix C(10)(h) incorporated herein by reference.</p>

C. GENERAL APPLICABLE REQUIREMENTS

The Permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et. seq. and 310 CMR 8.00 et. seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements, contained in Table 7 below:

Table 7	
REGULATION	DESCRIPTION
42 U.S.C. 7401, §112	Hazardous Air Pollutants
42 U.S.C. 7401, §601 et seq.	Stratospheric Ozone
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases
310 CMR 7.25	Consumer Chemical Products
40 CFR Part 64	Compliance Assurance Monitoring

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to the following special terms and conditions that are not contained in Tables 3, 4, 5 and 6:

- a) **BLR-1, BLR-2, and BLR-3:**
 - 1) Polartec, LLC shall comply with the requirements of Approvals MBR-89-IND-128 and MBR-95-COM-026, and notify the Regional Office, within 24 hours of notification by its natural gas supplier that the facility’s natural gas supply has been interrupted, by fax or phone to indicate the date and time of interruption, duration of the interruption, expected duration of the interruption, and the anticipated date and time when the natural gas supply will resume at the facility. Polartec, LLC shall notify MassDEP as required above when natural gas consumption has resumed at the facility.
 - 2) Polartec, LLC is subject to the Federal New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR Part 60 Subpart Dc) for Emission Units BLR-1, BLR-2, and BLR-3. This regulation covers boilers rated between 10 and 100 MMBtu/hr for which construction, modification, or reconstruction is commenced after June 9, 1989. Compliance with the daily record keeping requirements for BLR-1, BLR-2, and BLR-3 as shown in Table 5 of this Operating Permit shall be considered compliance with 40 CFR Part 60 Subpart Dc, Section 60.48c(g) for BLR-1, BLR-2, and BLR-3. Compliance with the requirement to maintain records of all facility-wide monitoring data and supporting information as shown in

Table 5 of this Operating Permit shall be considered compliance with 40 CFR Part 60 Subpart Dc, Section 60.48c(i) for Emission Unit Nos. BLR-1, BLR-2, and BLR-3.

- 3) Polartec, LLC shall conduct annual NOx/CO compliance testing on BLR-1, BLR-2, and BLR-3 for any of these boiler(s) operated at least 168 hours in any calendar year.

c) RPL-1:

In accordance with the provisions of Approval MBR-02-IND-031:

- 1) All VOC containing materials, such as print pastes and cleanup solutions, shall be transported and stored in tightly covered containers.
- 2) All cleaning rags used in conjunction with the cleaning solutions shall be placed in tightly covered containers when not in use, and shall be collected for proper recycling or disposal.
- 3) All process air from the subject rotary print line dryer shall be vented to the wet ESP for particulate removal. The subject rotary print line shall only be operated when the wet ESP is properly functioning.
- 4) If an upset of the control system occurs, which lasts for more than 15 minutes, then Polartec, LLC shall discontinue operation of the rotary print line until the wet ESP and any associated equipment in question are repaired and operating properly.
- 5) Polartec, LLC shall maintain documentation and adhere to the criteria for capture efficiency – U.S.EPA Method 204 for permanent total enclosures (PTE) for the subject rotary print line dryer. The criteria for a PTE are the following:
 - a) All access doors and windows are closed during normal operation.
 - b) The interior of the PTE is under negative pressure to the outside environment.
 - c) The average velocity through the natural draft openings (NDOs) must be greater than 200 feet per minute.
 - d) Sources of PM in the PTE must be at least four (4) equivalent diameters from each NDO.
 - e) The total area of all NDOs must be less than five (5) percent of the total area of the enclosure.

The above procedures shall be incorporated into Polartec's Standard Operating and Maintenance Procedure (SOMP) for the subject process equipment.

- 6) A copy of Final Approval No. MBR-02-IND-031 shall be posted at or near the subject equipment.
- 7) A copy of the subject wet ESP's Standard Operating and Maintenance Procedure (SOMP) shall be maintained at the facility at all times.

d) Facility-Wide:

- 1) Should any nuisance condition be generated at the facility, then appropriate steps shall immediately be taken to abate said nuisance condition(s). (State only requirement - 310 CMR 7.01 General Regulations to Prevent Air Pollution)
- 2) If asbestos remediation/removal should be required as a result of the approved construction, reconstruction, or alteration of this unit, removal/remediation of asbestos shall be done in accordance with Regulation 310 CMR 7.15 in its entirety and 310 CMR 4.00 .
- 3) Removal or rendering inoperative any air pollution control equipment installed as a requirement of 310 CMR 7.00 without Department approval is not allowed except for reasonable maintenance periods of unexpected or unavoidable failure.
- 4) Fuel additives must be used in accordance with manufacturer’s specifications as described in 310 CMR 7.05.
- 5) No concealing of emissions without emissions reduction as referenced in 310 CMR 7.04(b).
- 6) Polartec, LLC has indicated that it is subject to, and complying with, the requirements of 310 CMR 7.16, U Reduction of Single Occupant Commuter Vehicle Use. Polartec, LLC shall continue to comply with 310 CMR 7.16.

6. ALTERNATIVE OPERATING SCENARIOS

The Permittee did not request alternative operating scenarios in its Operating Permit Application.

7. EMISSIONS TRADING

(a) Intra-facility emissions trading

The Permittee did not request intra-facility emissions trading in its Operating Permit Application.

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5.

In addition, the Permittee shall comply with any applicable requirements that become effective during the Permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

The Permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. COMPLIANCE CERTIFICATION

All documents submitted to the MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via the MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm#op>.

(a) Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Regional Administrator, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification report shall describe:

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status and whether compliance was continuous or intermittent during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- iv. any additional information required by the MassDEP to determine the compliance status of the source.

(b) Semi-Annual Monitoring Summary Report and Certification

The Responsible Official shall certify, semi-annually on the calendar year, that the facility is in compliance with the requirements of this permit. The report shall be postmarked or delivered by January 30 and July 30 to the MassDEP. The report shall be submitted in compliance with the submission requirements below.

- i. the terms and conditions of the permit that are the basis of the certification;
- ii. the current compliance status during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- iv. whether there were any deviations during the reporting period;
- v. if there are any outstanding deviations at the time of the reporting, and the Corrective Action Plan to remedy said deviation;
- vi. whether deviations in the reporting period were previously reported;
- vii. if there are any outstanding deviations at the time of reporting, the proposed sate of such return to compliance and date of such return to compliance;
- viii. if the deviations in the reporting period have returned to compliance and the date of such return to compliance; and
- ix. any additional information required by MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act and is grounds for enforcement action, for permit termination or revocation; or for denial of an operating permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00 and civil penalties under M.G.L. c.111, §142A and 142B.

This permit does not relieve the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this permit.

12. PERMIT SHIELD

(a) This facility has a permit shield provided that it operates in compliance with the terms and conditions of this permit. Compliance with the terms and conditions of this permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the Permittee's application and as identified in this permit.

Where there is a conflict between the terms and conditions of this permit and any earlier permit, the terms and conditions of this permit control.

(b) The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.

- (c) Nothing in this permit shall alter or affect the following:
- (i.) the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - (ii) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
 - (iii) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the MassDEP, EPA and citizens as defined under the Act.

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

14. PERMIT TERM

This permit shall expire on the date specified on the cover page of this permit, which shall not be later than the date five (5) years after the issuance of this permit.

Permit expiration terminates the Permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon the MassDEP's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the operating permit renewal application prior to this permit's expiration date, this permit shall remain in effect until the MassDEP takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

This permit may be modified, revoked, reopened, and reissued, or terminated for cause by the MassDEP and/or EPA. The responsible official of the facility may request that the MassDEP terminate the facility's operating permit for cause. The MassDEP will reopen and amend this permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the Permittee for an operating permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any operating permit condition.

17. DUTY TO PROVIDE INFORMATION

Upon the MassDEP's written request, the Permittee shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. Upon request, the Permittee shall furnish to the MassDEP copies of records that the Permittee is required to retain by this permit.

18. DUTY TO SUPPLEMENT

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

The Permittee shall promptly, on discovery, report to the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an

administrative permit amendment if no other change in the permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, liability between current and new Permittee has been submitted to the MassDEP.

20. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

21. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the MassDEP and EPA to perform the following:

- (a) enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor at reasonable times, any substances or parameters for the purpose of assuring compliance with the operating permit or applicable requirements as per 310 CMR 7.00 Appendix C.(3)(g)12.

22. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the permit, including any amendments or attachments thereto, upon request by the MassDEP or EPA.

23. SEVERABILITY CLAUSE

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹ emission limitations specified in this permit as a result of an emergency².

In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) an emergency occurred and that the Permittee can identify the cause(s) of the emergency;
- (b) the permitted facility was at the time being properly operated;
- (c) during the period of the emergency the Permittee took all reasonable steps as expeditiously as possible to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and
- (d) the Permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response immediate notification to the appropriate parties should be made as required by law.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6 of this Operating Permit shall supercede the following deviation reporting requirement, if applicable.

The permittee shall report to the MassDEP's Regional Bureau of Waste Prevention the following deviations from permit requirements, by telephone or fax, within three (3) days of discovery of such deviation:

- Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other

¹ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

² An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

credible evidence, which are ten percent (10%) or more above the emission limit.

- Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the permit or approval as surrogate for an emission limit.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the MassDEP Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via MassDEP's web site,

<http://www.mass.gov/dep/air/approvals/aqforms.htm#op> .

This report shall include the deviation, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone or fax within 3 days of discovery, said deviation shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The Permittee is allowed to make changes at the facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the permit, and in compliance with all applicable requirements, provided the Permittee gives the EPA and the MassDEP written notice fifteen days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the facility's permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. MODIFICATIONS

- (a) Administrative Amendments - The Permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).

- (b) Minor Modifications - The Permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).
- (c) Significant Modifications - The Permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).
- (d) No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this operating permit. A revision to the permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an operating permit revision under any other applicable requirement.

APPEAL CONDITIONS FOR OPERATING PERMIT

This permit is an action of the MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the facility must continue to comply with all existing federal and state applicable requirements to which the facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the facility shall not be in violation of the Act for operating without a permit.

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 permit 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:

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

The 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.

The 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.