Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection
Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

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January 13, 2016

Ms. Patricia Delaney
Environmental Health & Safety Officer
Bridgewater State University
200 Great Hill Drive
Bridgewater, MA 02324

RE: **BRIDGEWATER**
Transmittal No.: X267913
Application No.: SE-15-025
Fee Class: SM79-R
FMF No.: 130405
310 CMR 7.02(9)
RESTRICTED EMISSION STATUS APPROVAL

Dear Ms. Delaney:

The Massachusetts Department of Environmental Protection ("MassDEP") has determined that the above referenced Restricted Emission Status ("RES") Application is administratively and technically complete. MassDEP hereby **approves** your RES Application legally limiting the amount of federal potential emissions of Nitrogen Oxides (NO_x) from your facility through a restriction on the fuel used and other restrictions as noted herein.

This **RES Approval** will be issued in accordance with Regulation 310 CMR 7.02(9) of the Air Pollution Control Regulations ("Regulations"), Regulation 310 CMR 7.00 as adopted pursuant to M.G.L. c.111, Sections 142A-142N.

Included as part of this Proposed RES Approval are the following:

- Special Conditions for RES
- General Conditions for RES

Notice of the proposal to approve the RES was published in The Brockton Enterprise on December 3, 2015 in accordance with the requirements of 310 CMR 7.02(9). The public comment period ended on January 3, 2016 and:

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 Energy and 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 ("EIR") at a later time.

Should you have any questions concerning this RES Approval, please contact Elza Bystrom at (508) 946-2856.

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.

_____

Thomas Cushing
Permit Chief
Bureau of Air and Waste

ecc: Bridgewater Fire Department
Bridgewater Board of Health
Southeastern Regional Planning District – Sandy Conaty
MassDEP/Boston – Yi Tian
MassDEP/SERO – Maria Pinaud, Elza Bystrom
EPA – Region 1, Clean Air Program – Donald Dahl
TRC Environmental Corp. – Amy McVey

I. SPECIAL CONDITIONS FOR RESTRICTED EMISSION STATUS APPROVAL

A. EQUIPMENT DESCRIPTION

Bridgewater State University ("the Permittee") has submitted information via a AQ 09 RES Application Form to modify the current RES (Approval No. 4R95108 dated March 21, 1996). The emission units at the Bridgewater State University campus in Bridgewater, MA ("the Facility") have potential NO_x emission greater than the Major Source threshold NO_x (50 tons per year for NO_x) but not for any other criteria pollutants. The RES removes certain existing combustion equipment and #6 fuel oil usage limitations, to include new fuel utilization equipment and to set natural gas usage limits at the Facility. Tables 1a - g below show the fuel utilization equipment currently operating at the Facility:

Table 1a – Engines – Compression Ignition – Diesel

EU# (Facility ID)	Unit Description	Location	Output Rating (kW)	Manufacturer	Model Number	Maximum Heat Input (MMBtu/hr)	Maximum Firing Rate (gal/hr)
5	Emergency generator #1	Shea/Durgin Hall	200	Olympia	200P41	1.896	13.8
8	Emergency generator #2	Woodward Hall	62	Kohler	60ROZJ	0.588	4.3
10	Emergency generator #3	East Hall	85	SDMO	JS100VC	0.806	5.9
13	Emergency generator #4	Maxwell Library	60	Kohler	125RZG	0.569	4.2
16	Emergency generator #5	Boyden Hall	200	Olympian	D200P4	1.896	13.8
17	Emergency generator #6	Harrington Hall	125	Superior	125R161	1.185	8.6
18	Emergency generator #7	Operations Center	300	Caterpillar	SR4B	2.844	20.8
19	Emergency generator #8	Satellite Farm	80	Kohler	80ROZD	0.758	5.5
20	Emergency generator #9	East Campus Commons	85	SDMO	JS100VC	0.806	5.9
21	Emergency generator #10	Dr. Adrian Tinsley Center	200	SDMO	D200P4	1.896	13.8
24	Emergency generator #11	Crimson Hall	250	Cummins	DQDAA-5778817	2.370	17.3
25	Emergency generator #12	Great Hill Apartments	40	Caterpillar	C4.4	0.379	2.8
26	Emergency generator #13	Scott Hall	150	Caterpillar	C6.6	1.422	10.4
27	Emergency generator #14	Pope Hall	150	Caterpillar	C6.6	1.422	10.4
28	Emergency generator #15	Power Plant	130	Kohler	125REOZJD	1.232	9.0

Table 1a – Engines – Compression Ignition - Diesel (continued)

EU# (Facility ID)	Unit Description	Location	Output Rating (kW)	Manufacturer	Model Number	Maximum Heat Input (MMBtu/hr)	Maximum Firing Rate (gal/hr)
30	Emergency generator #16	Science & Math Center	810	Kohler	800REOZMB	7.679	56.1
31	Emergency generator #17	Parking Garage	80	Caterpillar	C4.4	0.758	5.5
33	Emergency generator #18	Burnell School/Hart Hall	100	Consolidated Power	D4800-T4009	0.948	6.9

Table 1b – Engines – Spark Ignition – Natural Gas

EU# (Facility ID)	Unit Description	Location	Output Rating (kW)	Manufacturer	Model Number	Maximum Heat Input (MMBtu/hr)	Maximum Firing Rate (cf/hr)
11	Emergency generator #19	Moakley	75	Onan	75ENAD	0.711	697.1
14	Emergency generator #20	Rondileau Campus Center	45	Onan	45EM 4RS 4139A	0.427	418.6
15	Emergency generator #21	Tillinghast Hall	35	Generac	97A005545-S	0.332	325.5
23	Emergency generator #22	Barry House	30	Kohler	30RES	0.284	278.4
29	Emergency generator #23	Kelly Gymnasium	125	Kohler	125REZG	1.185	1161.8
32	Emergency generator #24	Miles/Dinardo Halls	115	Caterpillar	3306-SI	1.09	1068.6
34	Emergency generator #25	Weygand Hall	250	Kohler	250REZXB	2.4	2352.9

Table 1c – Combined Heat and Power - Natural Gas

EU# (Facility ID)	Unit Description	Location	Output Rating (kW)	Manufacturer	Model Number	Maximum Heat Input (MMBtu/hr)	Maximum Firing Rate (cf/hr)
97	Cogeneration Unit	Dr. Adrian Tinsley Center	N/A	AEGEN	m-3410A	0.082	865

Table 1d – Hot Water Heaters - Natural Gas

EU# (Facility ID)	Unit Description	Location	Manufacturer	Model Number	Maximum Heat Input (MMBtu/hr)	Maximum Firing Rate (cf/hr)
51	Hot Water Heater #1	Dr. Adrian Tinsley Center	PVI	1250P400A-TP	0.8	784.3
52	Hot Water Heater #2				1.0	980.4

Table 1d – Hot Water Heaters - Natural Gas (continued)						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
59 – 60	Hot Water Heater #3 – 4	East Campus Commons	PVI	100P225A-TP	0.8	784.3
63 – 64	Hot Water Heater #5 – 6	East Hall	PVI	2000 N 600A-TP	1.6	1,568.6
76 – 77	Hot Water Heater #7 – 8	Miles/Dinardo	Premiera	1000 W	1.0	980.4
79a	Hot Water Heater #9	Crimson Hall	PVI	1000P225A-TP	1.0	980.4
79b	Hot Water Heater #10				0.8	784.3
86	Hot Water Heater #11	25 Plymouth Street	PVI	N/A	0.036	35.3
92	Hot Water Heater #12	Burnell School/Hart Hall	Bradford White	EF100T399E3NA2	0.4	392.2
93 – 94	Hot Water Heater #13 – 14	Shea/Durgin	PVI	3000 N 900A-TP	2.4	2,352.9
95 – 96	Hot Water Heater #15 – 16	Great Hill Apartments	PVI	500P225A-TP	0.399	391.2
97 – 98	Hot Water Heater #17 – 18	Woodward Hall	PVI	1500L400A-TP	1.2	1,176.5
105 – 106	Hot Water Heater #19 – 20	Operations Center	Rheem Rhudd	G100-200	0.2	196.0
146 – 147	Hot Water Heater #21 – 22	Weygand Hall	Tricon	150L300A-PVIF	1.5	1,470.6

Table 1e – Boilers - Natural Gas						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
142 – 143	Boiler #47 – 48	Power Plant	Cleaver Brooks	4WG-700-800-150ST	32.659	32,081.6
4 – 5	Boiler #1 – 2	Shea/Durgin	Buderus	G605/15	4.061	3,981.4
17 – 18	Boiler #3 – 4	Moakley	HB Smith	19-SER-12	1.65	1,617.6
19	Boiler #5	MSCA	Weil McLain	Economite E20A	0.225	220.6
61 – 62, 107, 129	Boiler #6 – 9	Dr. Adrian Tinsley Center	Lochinvar	FBN1501	1.5	1,470.6
78a – b	Boiler #10 – 11	Crimson Hall	HB Smith	28A-14	4.517	4,428.4
80	Boiler #12	Barry House	Bryant	311AAV1JAV	1.0	980.4
84	Boiler #13	25 Plymouth Street	Weil McLain	N/A	0.104	102.0

Table 1e – Boilers - Natural Gas (continued)						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
99 – 101	Boiler #14 – 16	Woodward Hall	Buderus	GB312200	0.733	718.6
108	Boiler #17	180 Summer Street	Frigidaire	N/A	0.080	78.4
109	Boiler #18				0.100	98.0
110 – 111	Boiler #19 – 20	Hunt Hall	Burnham	V908A	1.386	1,358.8
112 – 113	Boiler #21 – 22		MVB	H7-1003	0.999	979.4
114, 130	Boiler #23 – 24	East Hall	HB Smith	28A-S/W-10	3.2	3,137.3
115 – 116	Boiler #25 – 26	Burnell/Hart	Fulton	vtg-3000	3.0	2,941.2
117	Boiler #27	Operations Center	Burnham	V907A	1.198	1,174.5
118	Boiler #28	19 Shaw Ave	Janitrol	GMPN120-5 REV 8	0.120	117.6
127 – 128	Boiler #29 – 30	Miles/Dinardo	Weil McLain	PG-788-W-5	2.049	2,008.8
141	Boiler #31	Weygand Hall	Harslo	C-4000	4.0	3,921.6
166, 173	Boiler #32 – 33	Hale Street Warehouse	Goodman	GM881155CNCC	0.115	111.7
167, 174	Boiler #34 – 35			GMS80703AHA	0.070	68.6
168	Boiler #36			GKS91155DXAD	0.115	112.7
169 – 170	Boiler #37 – 38			GMNT120-5	0.120	117.6
171	Boiler #39			GMPN060-3	0.060	58.8
172	Boiler #40			BM88080440NAA	0.090	88.2
175	Boiler #41		Janitrol	CMP125-5	0.100	98.0
176	Boiler #42		Lennox	G12E200-12	0.200	196.1
189	Boiler #43	Gates House	Weil McLain	CGI-7-PIN	0.200	196.1
190	Boiler #44	Greenhouse	RBI	CB750	0.750	735.3
191 – 192	Boiler #45 – 46	Great Hill Apartments	Burnham	V908A	1.386	1,358.8

Table 1f – HVAC Roof Top Units - Natural Gas						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
53 – 55	RTU #1 – 3	East Campus Commons, Cafeteria/Bookstore	American Standard	YCD091D4LCBE	0.120	117.6
56	RTU #4	East Campus Commons, Cafeteria/Lobby		YCD301C4HABA	0.400	392.2
57 – 58	RTU #5 – 6	East Campus Commons	McQuay	079SHC	1.000	980.4
120	RTU #7	East Campus Commons, Cafeteria	Greenheck	KSU-11C-H10-DBC	0.275	269.6
121	RTU #8			KSU-112-H2C-DBC	0.275	269.6
122	RTU #9			KSU-118-H3C-DBC	0.550	539.2
123 – 124	RTU #10 – 11			KSU-1C9-H1C-DBC	0.275	269.6
119, 148	RTU #12 – 13	Hunt Hall	Carrier	48TFE006-A-311	0.115	112.7
149 – 150	RTU #14 – 15	Miles/Dinardo Hall	Reznor	RPBL600-8-S	0.300	294.1
151	RTU #16	Operations Center	Carrier	48TME008-A-501	0.180	176.5
152	RTU #17		Trane	N/A	0.250	245.1
153 – 154	RTU #18 – 19				0.150	147.1
155	RTU #20			GRAA70PDBFON3C G102A005	0.700	686.3
156	RTU #21			GRAA60PDBFON3JR 105COC5	0.600	588.2
157 – 160	RTU #22 – 26	Shea/Durgin Halls	Greenheck	PVF300	0300	294.1
161 – 164	RTU #27 – 30			PVF250	0.250	245.1

Table 1g – Space Heaters - Natural Gas						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
21	Space Heater #1	Davis Alumni Center	Magic Chef	EG6E80DC16-1	0.080	78.4
22	Space Heater #2			EG6E100DC20-2	0.100	98.0
177	Space Heater #3	Hale Street Warehouse	Modine	PAE75AC	0.075	73.5
178	Space Heater #4			PSH225AV0130	0.225	220.6

Table 1g – Space Heaters - Natural Gas (continued)						
EU# (Facility ID)	**Unit Description**	**Location**	**Manufacturer**	**Model Number**	**Maximum Heat Input (MMBtu/hr)**	**Maximum Firing Rate (cf/hr)**
179 – 186	Space Heater #5 – 12	Hale Street Warehouse	Modine	PAE75AC	0.075	73.5
187	Space Heater #13		Reznor	SCA1006	0.100	98.0
188	Space Heater #14		Sterling	QVF250	0.250	245.1

Table 1 Key:

EU	= Emission Unit
#	= Number
kW	= kilowatt
HVAC	= Heating, ventilation, air conditioning
RTU	= Roof Top Unit
gal/hr	= gallon per hour
MMBtu/hr	= Million British thermal units per hour
cf/hr	= cubic feet per hour
N/A	= Not Available or Not Applicable

B. EMISSION LIMITS (SHORT TERM & LONG TERM)

The facility-wide emissions, including the Emission Units listed in Tables 1a – g above as well as any future installations of combustion equipment at the Facility which are either exempt from Plan Approval pursuant to 310 CMR 7.02, or which will be installed in compliance with the Industry Performance Standards for Boilers, Regulation 310 CMR 7.26 (30) through 7.26 (37) and/or the Industry Performance Standards for Engines and Combustion Turbines, Regulation 310 CMR 7.26 (40) through 7.26 (44), shall also be subject to and must comply with the emissions restrictions contained in Table 2 below:

Table 2 – Facility-wide Restricted Emission Limits		
Pollutant	Proposed Facility-Wide Restricted Emission Limits, tons per month	Proposed Facility-Wide Restricted Emission Limits, tons per consecutive 12-month period
Nitrogen oxides (NO_x)	6.91	34.54

Table 2 Notes:

1. Facility-wide Restricted Emission Limits are calculated using emission factors from EPA WebFire and 310 CMR 7.26(33)(b).

C. PRODUCTION LIMITS

Not Applicable.

D. OPERATING LIMITS

1. The Permittee shall restrict its maximum natural gas usage according to the limits contained in Table 3 below.

Table 3 – Maximum Natural Gas Usage	
Monthly Restrictions	Consecutive 12-Month Period Restrictions
70 million cubic feet (MMCF)	350 million cubic feet (MMCF)

2. Facility-wide potential emission limits include emission from emergency engines, as described in Tables 1a and b, based on their maximum firing rate and 300 hours of operation annually.

E. MONITORING REQUIREMENTS
See GENERAL CONDITIONS I. and J. below.

The Permittee shall monitor facility operations to ensure compliance with the emission limits and restrictions specified herein including but not limited to installation, operation and maintenance of: a) meter(s) to track natural gas consumption that measure and totalize for the Facility personnel to read and record on a monthly basis; and, b) non-resettable totaling run time meters on all generators to verify compliance with the hourly limits contained herein. In addition the Facility shall perform compliance testing on the subject equipment when and if in the opinion of MassDEP such is deemed necessary.

F. RECORD KEEPING REQUIREMENTS
See GENERAL CONDITION K. below.

Specifically, the Permittee shall be required to maintain fuel purchase receipts on file and fuel usage logs for the subject emission units which must reflect actual fuel usage on a monthly and 12-month rolling 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 emissions from said fuel usage, and the total fuel usage and resulting emissions for the previous twelve months for each type of fuel burned (the total from the current month's fuel usage plus sum of fuel usage for the eleven months preceding the current month). The Permittee shall record the operating hours for all generators on a monthly and twelve month rolling calendar basis. A copy

of these fuel usage logs and operating hour records must be kept on site. An interactive Microsoft Excel on-site record keeping form can be downloaded at http://www.mass.gov/dep/air/approvals/aqforms.htm#report.

In addition the Permittee shall maintain accurate and timely records documenting all combustion equipment retirements, replacements and installations on-site and shall make said records available to MassDEP personnel upon request.

G. REPORTING REQUIREMENTS

See GENERAL CONDITION L. below.

The Permittee shall submit a Restricted Emission Status Exceedance Report (RESER) to MassDEP should it exceed any limitation/restriction established within this RES Approval. Said RESER report shall be submitted to this Office within seven (7) days of documentation of the exceedance of any limitation/restriction by the Permittee. The RESER shall include identification, duration, and reason for the exceedance, and remedial action plan to prevent future exceedances.

The Permittee shall be required to submit, on or before March 15th of each year, an Annual RES Compliance Report (ARESCR) to the Southeast 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. The Permittee shall utilize MassDEP's Annual Emissions Reporting Form, available in interactive Microsoft Excel format at: http://www.mass.gov/eea/agencies/massdep/air/approvals/limited-emissions-record-keeping-and-reporting.html.

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 - 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.

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 - All plan Approvals issued under Regulation 310 CMR 7.02 prior to the effective date of this RES Approval shall continue to meet the emission rates and approved conditions specified in the applicable plan Approval(s) 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 which cause or contribute to a condition of air pollution as defined in Regulations 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 which cause or contribute to a condition of air pollution as defined in Regulations 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 Regulations 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 in sufficient manner to ensure continuous and accurate operation 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 Regulation 310 CMR 7.13.

In accordance with Regulation 310 CMR 7.04(4)(a), each fuel utilization facility having an energy input capacity equal to or greater than 3,000,000 Btu per hour 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 subject equipment.

K. RECORD KEEPING - A record keeping system shall be established and continued on site. All records shall be maintained up-to-date such that year-to-date information is readily available for MassDEP examination. Record keeping shall, at a minimum, include:

a) 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.

b) 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.

c) Malfunctions: A record of all malfunctions of 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.

d) All records shall be kept on site for five (5) years and shall be made available to MassDEP upon request.

L. REPORTING - In accordance with Regulation 310 CMR 7.12, the facility shall file Source Registration on-line detailing information regarding the facility's emissions. The required information may include:

a) The nature and amounts of emissions from the facility.

b) Information which may be needed to determine the nature and amounts of emissions from the facility.

c) Any other information pertaining to the facility which MassDEP requires.

d) In accordance with Regulation 310 CMR 7.12(2), information required by Regulation 310 CMR 7.12(1)(a) shall be submitted annually.

e) The Regional Bureau of Air and Waste, Compliance and Enforcement 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 - Any proposed increase in emissions above the limits contained in this RES Approval must first be approved in writing by MassDEP pursuant to Regulation 310 CMR 7.02. In addition, any increase may subject the facility to additional regulatory requirements.

N. 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 Regulation 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.