



South Coast Air Quality Management District



21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

August 2, 2013

Mr. Gerardo C. Rios
Chief of Permit Operations
US EPA Region IX Air 3
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

SUBJECT: B Braun Medical, Inc. (ID 117290) Title V Permit Revision

B Braun Medical, Inc. has submitted Application No. 542245 to revise their Title V permit by adding three dust collectors, a salt blending system and a dextrose blending system (please see attached).

This is a pharmaceutical manufacturing facility (SIC 2834) located at 2525 McGaw Avenue, Irvine, CA 92614. This proposed permit revision is considered as a "de minimus significant permit revision" to their Title V permit. Attached for your review are the permit evaluation and proposed Section D. With your receipt of the proposed Section D today, we will note that the EPA 45-day review period begins on August 2, 2013.

If you have any questions or need additional information regarding the proposed permit revision, please call Ms. Kim Le at (909) 396-3768.

Sincerely,

Mohan Balagopalan
Senior Engineering Manager
Chemical, Mechanical, Ports, Administrative,
Permit Streamlining & Compliance Enhancements

MB:kl
Attachments

Applications and Equipment

Equipment	Application Nos.	Device Nos.	Process/ System	Permit Types
Dust Collector	542243	C75	8/3	PC/PO
Heat Exchanger	542244	D65	8/1	PC/PO
Compressor	542244	D66	8/1	PC/PO
Heat Exchanger	542244	D67	8/1	PC/PO
Hopper	542244	D68	8/1	PC/PO
Hopper	542244	D69	8/1	PC/PO
In-line Blender	542244	D70	8/1	PC/PO
Compressor	552155	D71	8/2	PC/PO
Heat Exchanger	552155	D72	8/2	PC/PO
Hopper	552155	D73	8/2	PC/PO
Hopper	552155	D74	8/2	PC/PO
Dust Collector	552153	C76	8/3	PC/PO
Dust Collector	552154	C77	8/3	PC/PO

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 1 of 8

Date: 4/20/13

A/P: 542242 - 542245

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PERMIT TO CONSTRUCT/OPERATE

Application name: B BRAUN MEDICAL, INC. (FACILITY ID# 117290)

Mailing address: 2525 McGaw Ave
Irvine, CA 92614

Equipment address: same as above

EQUIPMENT DESCRIPTION:

Equipment	ID No.	Connected to	RECLAIM Source Type/ Monitoring Unit	Emission and Requirements	Conditions
Process 8: SALT AND DEXTROSE BLENDING SYSTEMS					
System 1: Salt Blending System					
HEAT EXCHANGER, MUTERS, MODEL HDC600, WITH AN AIR BLOWER, 2-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D65				
COMPRESSOR, DELTA, MODEL GM10-S, 30 HP MOTOR A/N:	D66				
HEAT EXCHANGER, XCHANGER INC., MODEL C-125 A/N:	D67				
HOPPER, LEE, PRESSURE HOPPER, SALT, 600 LITERS A/N:	D68			PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.7, K48.4
HOPPER, AZO, MODEL FW-250, WEIGHT HOPPER, SALT, 17 CUBIC FEET A/N:	D69	C75		PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.7, K48.4
BLENDER, IN-LINE, IKA, MODEL CMS-2000/20, 50-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D70				
System 2: Dextrose Blending System					
HEAT EXCHANGER, MUTERS, MODEL HDC600, WITH AN AIR BLOWER, 2-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D65				
COMPRESSOR, DELTA, MODEL GM10-S, 30 HP MOTOR A/N:	D71				
HEAT EXCHANGER, XCHANGER INC., MODEL C-125 A/N:	D72				
HOPPER, LEE, PRESSURE HOPPER, SALT, 600 LITERS A/N:	D73			PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.6, K48.5

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**ENGINEERING AND COMPLIANCE****APPLICATION PROCESSING AND CALCULATION**

Page 2 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

HOPPER, AZO, MODEL FW-250, WEIGHT HOPPER, SALT, 17 CUBIC FEET A/N:	D74	C76		PM: (9) [RULE 405, 2-7- 1986]	B27.1, C1.6, K48.5
BLENDER, IN-LINE, IKA, MODEL CMS-2000/20, 50-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D70				
System 3: Air Pollution Control Systems					
System 1: Salt Blending System					
DUST COLLECTOR, AZO, MODEL SF-500, 1 HP. BLOWER, 75.3 SQ.FT.; 7 CARTRIDGE A/N	C75			PM: (9) [RULE 405, 2-7- 1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3
DUST COLLECTOR, AZO, MODEL SF-500, 1 HP. BLOWER, 75.3 SQ.FT.; 7 CARTRIDGE A/N	C76			PM: (9) [RULE 405, 2-7- 1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3
DUST COLLECTOR, DONALDSON TORIF, MODEL DFO-2-4, 5 HP. BLOWER, 760 SQ.FT.; 4 CARTRIDGE A/N:	C77			PM: (9) [RULE 405, 2-7- 1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3

BACKGROUND:

B Braun Pharmaceutical manufactures pharmaceutical IV solutions and products. This is a RECLAIM and Title V facility.

In August 2012, B Braun submitted the following Class I applications:

A/N 542242 – Admin change of Cogen #2 Duct Burner (ID# D36, A/N 432957) from Large Source of NOX to Major Source of NOx.

A/N 542243 – Dust Collector

A/N 542244 – Salt and Dextrose Blending

A/N 542245 - Title V Revision

The company requested for expediting. However, the submitted fees were insufficient. Per staff's request, the facility submitted additional fees in late September, 2012. The applications were deemed completed in October 2012. A preliminary evaluation of the applications showed some miscalculations of the emissions data provided in the original submittals. In late December 2012, the consultant resubmitted the emission data.

On February 12, 2013, staff completed the evaluation and the draft permits. Upon reviewing the draft permits, the facility requested to be given some time to make some revisions of the equipment descriptions and emission calculations.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 3 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

Upon several contacts by staff, on April 3, 2013, the facility submitted a request to revise the original submittals on equipment descriptions, process flow diagram as well as the emissions calculations. The changes are major enough to require the re-work of the draft permits including the evaluation, calculations and equipment descriptions as well as the permit conditions.

Per staff's request, a meeting was held with the applicant on May 7, 2013 to verify the configuration of the APC. The results of the meeting were as follows:

- A/N 542244 is for the salt blending system only.
- BBraun will submit three additional applications for the following equipment: dextrose blending system, the dust collector venting the salt blending system (exhaust No.1) and the dust collector venting the dextrose blending system (exhaust No. 2). The additional applications are required based on the configuration of the blending systems which are equipped with its own APC and separate venting systems.

On June 6, 2013, BBraun submitted three additional applications: A/N 552153, 552154 and 552155.

On July 19, 2013, BBraun submitted additional information for the new applications as requested by District staff.

There is no school within 1,000 feet from the facility. As a result, no public notice is required.

Since the facility is a Title V, the 45-day EPA comment is required before the permits can be issued.

PROCESS DESCRIPTION

The new salt and dextrose unloading and distribution system will blend and combine salt, dextrose and water to make a pharmaceutical IV saline solution. Salt and dextrose are in granular form.

The raw materials are delivered in a super sack which is lifted by crane and placed onto the unloading station. Each super sack is equipped with a designated discharge spout at the bottom, which is connected to the clamping device of the unloading system prior to the unloading starts. The raw materials are then gravity-fed into lump breaker where any large pieces of product will be broken into small pieces and then to its respective "pressure hopper". The transfer of raw materials from super sack via discharge spout to "pressure hopper" is conducted in an enclosed manner where fugitive particulate matter emissions are expected to be negligible. The raw materials is weighed by an automated system before transferred to the weight hopper using dehumidified, cooled, and pressure air. The fully automated and enclosed system is used to automatically weigh the quantity of material required for one solution batch via the weight hopper. The materials are then weighted again to make a batch of solution in the in-line blender where it is mixed with DI water. The product is then transferred to next production steps to be further processed into final products (e.g. IV solution).

In each of the weight hoppers, the pressurized air is vented to the atmosphere through a filtration system, called weight-hopper-secondary filters. This filtration system is equipped with a pulse jet cleaning mechanism where filtration media is continuously cleaned by a short burst of compressed air injected through a manifold. Particulate matters disengaged by a pulse jet cleaning are pulled from the bottom of each secondary filter and routed to a common dust collector equipped cartridge filter system.

Manufacturer specifies 99.9% removal efficiency for PM10.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 4 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

Emission calculations:

Based on AP-42 Chapter 11, Table 11.19-2-4 for Pulverized mineral processing

PM10 EF = 1.6 lb/ton = 0.8 lb PM10/1000 lb material

Default Control Efficiency for Dust Collectors/Baghouse = 99%

A/N 542244 (salt blending system)

Maximum Operating Schedule: 24 hrs/day, 7 days/wk, 52 wks/year

Max thruput of salt = 176 lb/hr = 126,720 lb/mo

The main contaminant is PM10

Emissions

	uncontrolled				controlled			
	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)
PM10	0.141	3.379	3.379	1216.512	0.001	0.034	0.034	12.165

A/N 552155 (dextrose blending system)

Maximum Operating Schedule: 24 hrs/day, 7 days/wk, 52 wks/year

Max thruput of dextrose per hour = 185 lb/hr = 133,200 lb/mo

Emissions

	uncontrolled				controlled			
	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)
PM10	0.148	3.552	3.552	1278.720	0.001	0.036	0.036	12.787

A/N 552153 – Dust collector #1 (venting salt blending system, A/N 542244)

Air-to-Cloth Ratio Calculation

A/C = VFR / A_b

With: A/C = air-to-cloth ratio

VFR = air to volumetric flow rate = 265 cfm

A_b = actual filter cloth area = 75.3 sq. ft.

A/C = 265/75.3 = 3.5 ft/min

For pulse jet filter cleaning method, the maximum recommended A/C ratio is 12.1 (Industrial Ventilation- 19th Edition). As a result, this ratio is acceptable.

A/N 552154 – Dust collector #2 (venting dextrose blending system, A/N 552155)

Air-to-Cloth Ratio Calculation

A/C = VFR / A_b

With: A/C = air-to-cloth ratio

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 5 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

VFR = air to volumetric flow rate = 265 cfm
 A_b = actual filter cloth area = 75.3 sq. ft.
 A/C = 265/75.3 = 3.5 ft/min

For pulse jet filter cleaning method, the maximum recommended A/C ratio is 12.1 (Industrial Ventilation- 19th Edition). As a result, this ratio is acceptable.

A/N 542243 – Dust Collector

Emissions of PM10 - For the purpose of determining compliance with Rule 404 and 405, PM10 emissions are calculated for the dust collector.

Uncontrolled = PM10 collected by dust collector #1(salt) + PM10 collected by dust collector #2 (dextrose)

Controlled = Uncontrolled *(1- 0.99)

	uncontrolled				controlled			
	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)
PM10	0.287	6.881	6.881	2509.218	0.003	0.069	0.069	25.092

Air-to-Cloth Ratio Calculation

A/C = VFR/ A_b
 With: A/C = air-to-cloth ratio
 VFR = air to volumetric flow rate = 1600 cfm
 A_b = actual filter cloth area = 760 sq. ft.
 A/C = 1600 /760 = 2.1 ft/min

For pulse jet filter cleaning method, the maximum recommended A/C ratio is 12.1 (Industrial Ventilation- 19th Edition). As a result, this ratio is acceptable.

NSR Entry

PM10	Equipment	uncontrolled				controlled			
		hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)	hourly (lb/hr)	daily (lb/d)	30-d avg (lb/d)	annually (lb/yr)
A/N 542243	Dust Collector	0	0	0	0	0	0	0	0
A/N 542244	Blending	0.141	3.379	3.379	1216.512	0.001	0.034	0.034	12.165
A/N 552153	Dust Collector	0	0	0	0	0	0	0	0
A/N 552154	Dust Collector	0	0	0	0	0	0	0	0
A/N 552155	Blending	0.148	3.552	3.552	1278.720	0.001	0.036	0.036	12.787

RULE EVALUATION

RULE 212 (c)(1) states that a project requires public notification if any new or modified permit unit or equipment may emit air contaminants and is located within 1,000 feet of the outer boundary of a school. According to the internet search, there is no K-12 schools within

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**ENGINEERING AND COMPLIANCE****APPLICATION PROCESSING AND CALCULATION**

Page 6 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

1,000 feet from the permit units point of exhaust at the facility. Therefore, public notice will not be required under this section.

(c)(2) states that a 30-day public notice is required for any new or modified facility which has on-site emissions increases exceeding any of the daily maximums as specified in the table in section 212(g). This equipment will not result in on-site emissions exceeding the values in section 212(g) and thus a 30-day public notice will not be required per this section.

(c)(3): This section requires a public notice for all new or modified permit unit with increases in emissions of toxic air contaminants listed in Table I of Rule 1401 resulting in MICR greater than 1E-6 per permit unit or greater than 10E-6 per facility. The emissions from the boiler results in MICR less than 1 in a million. Therefore Public Notice is not required under this section of the rule.

(g): Project emissions < threshold.

RULE 401 No visible emission is expected.

RULE 402 No nuisance is expected.

Rule 404 – Particulate Matter-Concentration: Compliance with this rule is expected as shown below.

A/N 542243

$$C = \frac{R_2 \times 7000 \frac{\text{grains}}{\text{lb}}}{\text{VFR} \times 60 \frac{\text{min.}}{\text{hr.}}}$$

Where: C= PM concentration (grains/ft³)

R₂ = Controlled PM emission rate = 0.003 lb/hr

VFR= Exhaust air flow-rate = 1600 cfm

$$C = \frac{0.003 \frac{\text{lb}}{\text{hr}} \times 7000 \frac{\text{grains}}{\text{lb}}}{1600 \frac{\text{ft}^3}{\text{min.}} \times 60 \frac{\text{min.}}{\text{hr.}}} = 0.0002 \text{ grains / ft}^3$$

For a flow rate of 1600 cfm, the rule allows a maximum PM concentration of 0.0424 grains/cft. Therefore, the dust collector complies with Rule 404

A/N 552154 and 552155

$$C = \frac{R_2 \times 7000 \frac{\text{grains}}{\text{lb}}}{\text{VFR} \times 60 \frac{\text{min.}}{\text{hr.}}}$$

Where: C= PM concentration (grains/ft³)

R₂ = Controlled PM emission rate = 0.001 lb/hr

VFR= Exhaust air flow-rate = 265 cfm

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 7 of 8

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

$$C = \frac{0.001 \frac{lb}{hr} \times 7000 \frac{grains}{lb}}{265 \frac{ft^3}{min} \times 60 \frac{min}{hr}} = 0.0004 \text{ grains / ft}^3$$

For a flow rate of 265 cfm, the rule allows a maximum PM concentration of 0.083 grains/cft. Therefore, the dust collectors comply with Rule 404.

Rule 405 – Particulate Matter-Weight:

A/N 542243 Maximum allowable emissions of solid particulate matter corresponding to a process rate of 367 lb/hr according to Rule 405 is 1.55 lb/hr. Maximum controlled emissions of 0.003 lb PM/hr is less than the maximum allowable emissions of 1.55 lb/hr specified by Rule 405. Therefore, the dust collector complies with Rule 405.

A/N 552153 and 552154 Maximum allowable emissions of solid particulate matter corresponding to process rates of 176 lb/hr and 185 lb/hr according to Rule 405 is 0.99 lb/hr. Maximum controlled emissions of 0.001 lb PM/hr is less than the maximum allowable emissions of 1.55 lb/hr specified by Rule 405. Therefore, the dust collectors comply with Rule 405.

Rule 1155 (e) and (f)- PARTICULATE MATTER (PM) CONTROL DEVICES:

A/N 542243 The dust collector has 760 square feet of filter area and therefore is Tier 2 based on Table 1. Conditions will be incorporated in the permit requiring monitoring and record keeping. Compliance is expected.

A/N 552153 and 552154 Each dust collectors has 75.3 square feet of filter area and therefore is Tier 1 based on Table 1. Conditions will be incorporated in the permit requiring monitoring and record keeping. Compliance is expected.

Rule 1303(a) - BACT: The following are BACT guidelines for Other Dry Material Handling

Subcategory/ Rating/Size	PM10
Other Dry Materials Handling	Enclosed Conveyors and Baghouse (7-11-97)

The company is venting the dry handling process equipment to three dust collectors. Therefore, this equipment is in compliance with BACT requirements.

Rule 1303(b)(1) – Modeling: The emissions from this equipment are below the rule limits (specified in table A1). Therefore, no further screening analysis is required.

Pollutant	Allowable Emissions (lb/hr)	Calculated Emissions (lb/hr)				
		A/N 5542243	A/N 5542244	A/N 552153	A/N 552154	A/N 552155
PM ₁₀	0.41	0	0.001	0	0	0.001

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 9 of 10

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

A/N 542243 The dust collector has 760 square feet of filter area and therefore is Tier 2 based on Table 1. Conditions will be incorporated in the permit requiring monitoring and record keeping. Compliance is expected.

A/N 552154 and 552155 Each dust collectors has 75.3 square feet of filter area and therefore is Tier 1 based on Table 1. Conditions will be incorporated in the permit requiring monitoring and record keeping. Compliance is expected.

Rule 1303(a) - BACT: The following are BACT guidelines for Other Dry Material Handling

Subcategory/ Rating/Size	PM10
Other Dry Materials Handling	Enclosed Conveyors and Baghouse (7-11-97)

The company is venting the dry handling process equipment to three dust collectors. Therefore, this equipment is in compliance with BACT requirements.

Rule 1303(b)(1) – Modeling: The emissions from this equipment are below the rule limits (specified in table A1). Therefore, no further screening analysis is required.

Pollutant	Allowable Emissions (lb/hr)	Calculated Emissions (lb/hr)				
		A/N 5542243	A/N 5542244	A/N 552153	A/N 552154	A/N 552155
PM ₁₀	0.41	0	0.001	0	0	0.001

1303(b)(2) – Offsets (lbs/day)

The 30-d average emissions of non-attainment criteria pollutants, PM10, show emission increases less than the offset threshold (0.5 lb/hr). Therefore, offset is not required.

CO is in attainment.

	Emissions (lb/d)		
	VOC	PM ₁₀	SO _x
A/N 542243	0	0	0
A/N 542244	0	0.001	0
A/N 552153	0	0	0
A/N 552154	0	0	0
A/N 552155	0	0.001	0
Total Emissions Increase (lbs/day)	0.00	0.00	0.00
Current NSR PTE (lbs/day)	22	24	2
New PTE (lbs/day)	22.00	24	2.00
Threshold Limit (lbs/day)	22.00	22.00	22.00
Offset Required (lbs/day)	0.00	0.00	0.00

As a result, compliance is expected.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING AND COMPLIANCE

APPLICATION PROCESSING AND CALCULATION

Page 10 of 10

Date: 4/20/13

A/P: 542242 - 542245

PROCESSED BY: KL03

CHECKED BY:

To make sure the emissions do not exceed 0.5 lb/d, a condition will be incorporated into the permit to limit the thruput at 126,720 lb/mo of salt and 133,200 lb/mo of dextrose.

Rule 2005 – New Source Review for RECLAIM: The facility is a NOx RECLAIM facility. There is no NOx emission from this project. No further analysis required. Compliance is expected.

Rule XXX– Title V :

- A/N 542242 and 542245 are Administrative Permit Revisions.
- A/N 542243, 542244, 552153, 552154 and 552155 do not emit NOx. PM10 emissions are negligible.

Therefore, compliance is expected.

RECOMMENDATION

Based on this evaluation, it is recommended to issue

- Permit to Operate for A/N 542242 (Co-gen system)
- Four (4) Permits to Construct/Operate for A/N 542243 (Dust Collector), 542244 (Salt blending system), 552153(dextrose blending), 552154 (dust collector #1) and 552155 (dust collector #2)

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: PLASTICS PRODUCTION					
System 1: BREAKER PLATE CLEANING					
FURNACE, ELECTRIC, FLUIDIZED BED CLEANING, 9 KWH A/N: 345036	D1	C2			B59.1
CYCLONE, 5 CUBIC FEET A/N: 345039	C2	D1 C3		PM10: (9) [RULE 404, 2-7-1986]	D323.2, E102.1
AFTERBURNER, NATURAL GAS, 0.2 MMBTU/HR A/N: 345039	C3	C2	NOX: PROCESS UNIT**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]	C8.3, D323.2
System 2: PLASTIC EXTRUDING					
HOPPER, RECEIVING, 20 CU.FT. A/N: 345037	D5			PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
EXTRUDER, DIAMETER: 4.5 IN A/N: 345037	D6	C14		PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
HOPPER, RECEIVING, 20 CU.FT. A/N: 345037	D7			PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
EXTRUDER, DIAMETER: 2.5 IN A/N: 345037	D8	C14		PM: (9) [RULE 405, 2-7-1986]	B59.2, B59.3, D323.2
HOPPER, RECEIVING, 20 CU.FT. A/N: 345037	D9			PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
EXTRUDER, DIAMETER: 2.5 IN A/N: 345037	D10	C14		PM: (9) [RULE 405, 2-7-1986]	B59.2, B59.3, D323.2
CUTTER, AIR KNIFE, WITH FABRIC FILTER A/N: 345037	D11				
MILL, ROLL, CHILLED A/N: 345037	D12				B59.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: PLASTICS PRODUCTION					
PACKAGING MACHINE, WINDER A/N: 345037	D13				B59.2
ELECTROSTATIC PRECIPITATOR, ROLLOTRONS TYPE H, MODEL F-SA 3H-34 A/N: 345035	C14	D6 D8 D10		PM: (9) [RULE 404, 2-7-1986]	D323.1, E202.1, K67.2
System 3: SCRAP PLASTIC RECLAMATION					
CONVEYOR, PNEUMATIC A/N: 345037	D15			PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
CUTTER, CHOPPER A/N: 345037	D16			PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
GRINDER, GRANULATOR A/N: 345037	D17	C18			B59.2, D323.2
CYCLONE, SEPARATOR, 20 CUBIC FOOT CAPACITY A/N: 345037	C18	D17 C27			B59.2, E102.1
PACKAGING MACHINE, GAYLORD FILLING A/N: 345037	D19	C20		PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
CYCLONE, SEPARATOR, 20 CUBIC FEET CAPACITY A/N: 345037	C20	D19 C27			B59.2, E102.1
PACKAGING MACHINE, GAYLORD FILLING A/N: 345037	D21	C22		PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
CYCLONE, SEPARATOR, 20 CUBIC FEET CAPACITY A/N: 345037	C22	D21 C27			B59.2, E102.1
BIN, SURGE, HEIGHT: 20 FT, DIAMETER: 12 FT A/N: 345037	D23	C24		PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: PLASTICS PRODUCTION					
CYCLONE, SEPARATOR, 20 CUBIC FEET CAPACITY A/N: 345037	C24	D23 C27			B59.2, E102.1
BIN, SURGE, HEIGHT: 20 FT ; DIAMETER: 12 FT A/N: 345037	D25	C26		PM: (9) [RULE 405, 2-7-1986]	B59.2, D323.2
CYCLONE, SEPARATOR, 20 CUBIC FEET CAPACITY A/N: 345037	C26	D25 C27			B59.2, E102.1
BAGHOUSE, OSPREY, MODEL MLF-50 A/N: 345040	C27	C18 C20 C22 C24 C26		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3
System 4: AIR POLLUTION CONTROL DEVICE					
BAGHOUSE, TORIT, MODEL DFO 3-3, 5 HP. BLOWER, 570 SQ.FT.; 3 CARTRIDGE A/N: 515417	C58	E59		PM: (9) [RULE 404, 2-7-1986]	C6.2, D322.1, D381.1, E160.2, K67.3
Process 2: POWER AND STEAM GENERATION					
System 2: COGENERATION SYSTEM NO. 1					

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: POWER AND STEAM GENERATION					
TURBINE, NO. 1, NATURAL GAS, SOLAR CENTAUR, MODEL GS-4000, WITH STEAM OR WATER INJECTION, 46.2 MMBTU/HR WITH A/N: 432956	D28	C31	NOX: MAJOR SOURCE**	CO: 2000 PPMV NATURAL GAS (3) [RULE 407, 4-2-1982]; NOX: 9 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 42 PPMV NATURAL GAS (3) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]; NOX: 68 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SOX: 150 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 2-24-2006]	A63.1, A99.1, A99.2, C8.1, D12.2, D12.3, D12.4, D28.1, D28.2, I331.1, K40.1, K67.1
GENERATOR, 2.8 MW					
BOILER, HRSG, DELTA, MODEL 355-247-E, WITH A HORIZONTAL TUBE ECONOMIZER					
REACTOR, CO OXIDATION A/N: 469642	C31	D28 C32			
AMMONIA INJECTION, METERING, AND INJECTION GRID A/N: 469642	C32	C31 C33			
SELECTIVE CATALYTIC REDUCTION, PRECIOUS METAL A/N: 469642	C33	C32 S34			C6.1, D12.4

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: POWER AND STEAM GENERATION					
STORAGE TANK, FIXED ROOF, AQUEOUS AMMONIA, WITH A VAPOR RETURN LINE, 1500 GALS A/N: 469642	D41				E144.1
STACK A/N: 469642	S34	C33			D82.1
System 3: COGENERATION SYSTEM NO. 2					
TURBINE, NO.2, NATURAL GAS, SOLAR CENTAUR, MODEL T-4701, WITH STEAM OR WATER INJECTION, 49.1 MMBTU/HR A/N: 432957	D35	C37	NOX: MAJOR SOURCE**	CO: 10 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NH3: 10 PPMV (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 9 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 34.67 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; NOX: 68 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 2-24-2006]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; SOX: 150 PPMV NATURAL GAS (8) [40CFR 60 Subpart GG, 2-24-2006]	A99.1, A99.2, C8.1, D12.2, D12.3, D12.4, D28.1, K40 1, K67.1

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: POWER AND STEAM GENERATION					
BURNER, DUCT, NATURAL GAS, DAVIS, MODEL GDB-225, 25 MMBTU/HR A/N: 432957	D36	C37	NOX: MAJOR SOURCE**	CO: 10 PPMV NATURAL GAS (5) [RULE 1303(a)(1)-BACT, 5-10-1996]; CO: 2000 PPMV NATURAL GAS (5A) [RULE 407, 4-2-1982]; NOX: 9 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996]; NOX: 27 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]	
REACTOR, CO OXIDATION A/N: 432955	C37	D35 D36 C38			
AMMONIA INJECTION, METERING, AND INJECTION GRID A/N: 432955	C38	C37 C39			
SELECTIVE CATALYTIC REDUCTION, PRECIOUS METAL A/N: 432955	C39	C38 S40			C10.1, D12.4
STORAGE TANK, FIXED ROOF, AQUEOUS AMMONIA, WITH A VAPOR RETURN LINE, 1500 GALS A/N: 432955	D42				E144.1
STACK A/N: 432955	S40	C39			D82.1
System 4: INTERNAL COMBUSTION					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL NT855-G4, WITH AFTERCOOLER, TURBOCHARGER, 375 BHP A/N: 345028	D47		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.1, D12.5, K48.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions [*] And Requirements	Conditions
Process 2: POWER AND STEAM GENERATION					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CUMMINS, MODEL KTTA19-G2, WITH AFTERCOOLER, TURBOCHARGER, 750 BHP A/N: 345032	D48		NOX: PROCESS UNIT**	NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]	C1.1, D12.5, K48.1
INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE FIGHTING PUMP, DIESEL FUEL, CLARKE, MODEL JU6H-UF50, 183 BHP A/N: 464464	D57		NOX: PROCESS UNIT**	CO: 2.6 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 31.34 LBS/1000 GAL DIESEL (1) [RULE 2012, 5-6-2005]; NOX + ROG: 4.9 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1) -BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; PM10: 0.15 GRAM/BHP-HR DIESEL (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	C1.4, D12.6, K48.2
Process 6: EXTERNAL COMBUSTION, INDUSTRIAL BOILER					

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 7: Rule 219 Exempt Equipment Subject to Source-Specific Requirements					
RULE 219 EXEMPT EQUIPMENT, HALON UNIT	E53				H23.1
RULE 219 EXEMPT EQUIPMENT, GRINDER	E59	C58		PM: (9) [RULE 405, 2-7-1986]	
RULE 219 EXEMPT EQUIPMENT, BLOW MOLDING LINE	E60			PM: (9) [RULE 405, 2-7-1986]	
Process 8: SALT AND DEXTROSE BLENDING SYSTEMS					
System 1: Salt Blending System					
HEAT EXCHANGER, MUNTERS, MODEL HDC600, WITH AN AIR BLOWER, 2-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D65				
COMPRESSOR, DELTA, MODEL GM10-S, 30 HP MOTOR A/N:	D66				
HEAT EXCHANGER, XCHANGER INC., MODEL C-125 A/N:	D67				
HOPPER, LEE, PRESSURE HOPPER, SALT, 600 LITERS A/N:	D68			PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.7, K48.4
HOPPER, AZO, MODEL FW-250, WEIGHT HOPPER, SALT, 17 CUBIC FEET A/N:	D69	C75		PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.7, E57.1, K48.4
BLENDER, IN-LINE, IKA, MODEL CMS-2000/20, 50-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D70				

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8: SALT AND DEXTROSE BLENDING SYSTEMS					
System 2: Dextrose Blending System					
HEAT EXCHANGER, MUNTERS, MODEL HDC600, WITH AN AIR BLOWER, 2-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D65				
COMPRESSOR, DELTA, MODEL GM10-S, 30-HP MOTOR A/N:	D71				
HEAT EXCHANGER, XCHANGE INC., MODEL C-125 A/N:	D72				
HOPPER, LEE, PRESSURE HOPPER, DEXTROSE, 600 LITERS A/N:	D73			PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.6, K48.5
HOPPER, AZO, MODEL FW-1600, WEIGHT HOPPER, DEXTROSE, 110 CUBIC FEET A/N:	D74	C76		PM: (9) [RULE 405, 2-7-1986]	B27.1, C1.6, E57.1, K48.5
BLENDER, IN-LINE, IKA, MODEL CMS-2000/20, 50-HP, COMMON FOR SALT AND DEXTROSE BLENDING SYSTEMS A/N:	D70				
System 3: Air Pollution Control Systems					
DUST COLLECTOR, AZO, MODEL SF-500, 1 HP. BLOWER, 75.3 SQ.FT., 7 CARTRIDGE A/N:	C75	D69 C77		PM: (9) [RULE 405, 2-7-1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 8: SALT AND DEXTROSE BLENDING SYSTEMS					
DUST COLLECTOR, AZO, MODEL SF-500, 1-HP BLOWER, 75.3 SQ.FT.; 7 CARTRIDGE A/N:	C76	D74 C77		PM: (9) [RULE 405, 2-7-1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3
DUST COLLECTOR, DONALDSON TORIF, MODEL DFO-2-4, 5 HP. BLOWER, 760 SQ.FT.; 4 CARTRIDGE A/N:	C77	C75 C76		PM: (9) [RULE 405, 2-7-1986]	D12.1, D322.1, D381.1, E102.1, E160.1, K67.3

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
B BRAUN MEDICAL, INC**

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
 B BRAUN MEDICAL, INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	1
C2	1	1	1
C3	1	1	1
D5	1	1	2
D6	1	1	2
D7	1	1	2
D8	1	1	2
D9	1	1	2
D10	1	1	2
D11	1	1	2
D12	1	1	2
D13	2	1	2
C14	2	1	2
D15	2	1	3
D16	2	1	3
D17	2	1	3
C18	2	1	3
D19	2	1	3
C20	2	1	3
D21	2	1	3
C22	2	1	3
D23	2	1	3
C24	3	1	3
D25	3	1	3
C26	3	1	3
C27	3	1	3
D28	4	2	2
C31	4	2	2
C32	4	2	2
C33	4	2	2
S34	5	2	2
D35	5	2	3
D36	6	2	3
C37	6	2	3
C38	6	2	3

**FACILITY PERMIT TO OPERATE
 B BRAUN MEDICAL, INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
C39	6	2	3
S40	6	2	3
D41	5	2	2
D42	6	2	3
D47	6	2	4
D48	7	2	4
E49	8	7	1
E50	8	7	1
E51	8	7	1
E52	8	7	1
E53	9	7	1
D54	8	6	0
D57	7	2	4
C58	3	1	4
E59	9	7	1
E60	9	7	1
D65	9	8	1
D65	10	8	2
D66	9	8	1
D67	9	8	1
D68	9	8	1
D69	9	8	1
D70	9	8	1
D70	10	8	2
D71	10	8	2
D72	10	8	2
D73	10	8	2
D74	10	8	2
C75	10	8	3
C76	11	8	3
C77	11	8	3

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F24.1 Accidental release prevention requirements of Section 112(r)(7):

a). The operator shall comply with the accidental release prevention requirements pursuant to 40 CFR Part 68 and shall submit to the Executive Officer, as a part of an annual compliance certification, a statement that certifies compliance with all of the requirements of 40 CFR Part 68, including the registration and submission of a risk management plan (RMP).

b). The operator shall submit any additional relevant information requested by the Executive Officer or designated agency.

[40CFR 68 - Accidental Release Prevention, 5-24-1996]

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 223 LBS PER DAY
PM	Less than or equal to 14 LBS PER DAY
SOX	Less than or equal to 1 LBS PER DAY
ROG	Less than or equal to 38 LBS PER DAY

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D28]

A99.1 The 9 PPM NOX emission limit(s) shall not apply when during start-ups and/or shutdowns which shall not exceed one hour.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D28, D35]

A99.2 The 10 PPM CO emission limit(s) shall not apply when during start-ups and/or shutdowns which shall not exceed one hour.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D28, D35]

A327.1 For the purpose of determining compliance with District Rule 476, combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time.

[RULE 476, 10-8-1976]

[Devices subject to this condition : D54]

B. Material/Fuel Type Limits

B27.1 The operator shall not use materials containing any toxic air contaminants (TACs) identified in the SCAQMD Rule 1401, as amended 09/10/2010.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1401, 9-10-2010]

[Devices subject to this condition : D68, D69, D73, D74]

B59.1 The operator shall not use the following material(s) in this device :

plastics containing polyvinyl chloride resins

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D1]

B59.2 The operator shall only use the following material(s) in this device :

salt and dextrose

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D4, D5, D6, D7, D8, D9, D10, D12, D13, D15, D16, D17, C18, D19, C20, D21, C22, D23, C24, D25, C26]

B59.3 The operator shall not use the following material(s) in this device :

recycled resins

[RULE 1401, 12-7-1990]

[Devices subject to this condition : D8, D10]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 96 hour(s) in any one year.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D47, D48]

C1.3 The operator shall limit the heat input to no more than 90000 MM Btu in any one year.

The purpose(s) of this condition is to ensure that this equipment qualifies as a large source.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D54]

C1.4 The operator shall limit the operating time to no more than 200 hour(s) in any one year.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D57]

C1.6 The operator shall limit the material processed to no more than 133,200 lb(s) in any one calendar month.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D73, D74]

- C1.7 The operator shall limit the material processed to no more than 126,720 lb(s) in any one calendar month.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D68, D69]

- C6.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, does not exceed 850 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number 12-4.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C33]

- C6.2 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 6.0 inches water column.

To comply with this condition, the operator shall install and maintain a(n) pressure gauge to accurately indicate the differential pressure across the filters.

The operator shall determine and record the parameter being monitored once every week.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C58]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.1 The operator shall use this equipment in such a manner that the water-to-fuel ratio being monitored, as indicated below, is not less than 0.54 to 1 ratio.

To comply with this condition, the operator shall monitor the water-to-fuel ratio as specified in condition number 12-2.

To comply with this condition, the operator shall monitor the water-to-fuel ratio as specified in condition number 12-3.

To comply with this condition, the operator shall monitor the water-to-fuel ratio as specified in condition number 67-1.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D28, D35]

- C8.3 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1460 Deg F.

To comply with this condition, the operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature in the exhaust of the afterburner following the combustion zone.

The operator shall also install and maintain a device to continuously record the parameter being measured.

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 3004(a)(4)-Periodic Monitoring,
12-12-1997]**

[Devices subject to this condition : C3]

- C10.1 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is maintained between 460 and 700 Deg F.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

To comply with this condition, the operator shall monitor the temperature as specified in condition number 12-4.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C39]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure across the filter.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C27, C75, C76, C77]

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the fuel usage of the turbine.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D28, D35]

D12.3 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the water supplied to the turbine.

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D28, D35]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the turbine exhaust stream at the SCR inlet.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D28, C33, D35, C39]

D12.5 The operator shall install and maintain a(n) timer to accurately indicate the elapsed operating time of the engine.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D47, D48]

D12.6 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D57]

D12.7 The operator shall install and maintain a(n) non-resettable totalizing fuel flow meter to accurately indicate the fuel usage of the equipment.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D54]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to determine the non-methane hydrocarbon emissions at the outlet.

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the moisture content at the outlet.

The test shall be conducted to determine the flow rate of fuel gas to the gas turbine..

Source test shall be conducted when this equipment is operating at maximum load for the turbine and the duct burner (system 2)..

The test shall be conducted to determine the NH3 emissions at the outlet.

The test shall be conducted to determine the flow rate of the fuel gas to the duct burner (system 2 only)..

The test shall be conducted to determine the flow rate of water injected into the gas turbine.

The test shall be conducted to determine the Formaldehyde at the outlet.

The test shall be conducted to determine the flow rate of ammonia to the SCR.

The test shall be conducted to determine the flow rate at the outlet.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D28, D35]

D28.2 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted at least once every eighteen months.

The test shall be conducted to determine the CO emissions at the outlet.

The test shall be conducted to determine the moisture content at the outlet.

The test shall be conducted in accordance with SCAQMD test procedures. Written notice of the test shall be provided at least 30 days prior to the test so that an observer may be present. The operator shall furnish the SCAQMD a written result of such tests..

The test shall be conducted to determine the oxygen concentration at the outlet.

The test shall be conducted to determine the NOX emissions at the outlet.

Source test shall be conducted when this equipment is operating at maximum load.

The test shall be conducted to determine the oxides of nitrogen with and without water injection and with and without the duct burner operating..

[RULE 1303(b)(2)-Offset, 5-10-1996]

[Devices subject to this condition : D28]

D82.1 The operator shall install and maintain a CEMS to measure the following parameters:

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

NOX concentration in ppmv

CO concentration in ppmv

O2 concentration in ppmv

Concentrations shall be corrected to 15 percent oxygen on a dry basis.

The CEMS will convert the actual NOX and CO concentrations to mass emission rates (lbs/hr) and record the hourly emission rates on a continuous basis.

The CEMS shall be installed and operated to comply with rule 218

The CEMS shall be installed and a CEMS application for initial and final approval shall be submitted and approved in writing by the Executive Officer

The CEMS shall be installed to regulate the flowrate of aqua ammonia by an automatic feedback system from the CEMS NOx measured at the SCR exhaust

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : S34, S40]

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C27, C58, C75, C76, C77]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

**FACILITY PERMIT TO OPERATE
B BRAUN MEDICAL, INC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]

[Devices subject to this condition : C14]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C2, C3, D4, D5, D6, D7, D8, D9, D10, D15, D16, D17, D19, D21, D23, D25]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D54]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C27, C58, C75, C76, C77]

E. Equipment Operation/Construction Requirements

E57.1 The operator shall vent this equipment to air pollution control equipment whenever it is in operation..

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D69, D74]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C2, C18, C20, C22, C24, C26, C27, C75, C76, C77]

E144.1 The operator shall vent this equipment, during filling, only to the vessel from which it is being filled.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : D41, D42]

E160.1 The operator shall clean the filters whenever the static differential pressure across the bags is 3 inches water column or greater.

[RULE 1303(a)(1)-BACT, 5-10-1996]

[Devices subject to this condition : C27, C75, C76, C77]

E160.2 The operator shall clean the filters whenever the static differential pressure across the bags is 6.0 inches water column or greater.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C58]

E202.1 The operator shall clean and maintain this equipment according to the following specifications:

**FACILITY PERMIT TO OPERATE
 B BRAUN MEDICAL, INC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

clean on a quartly basis

[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]

[Devices subject to this condition : C14]

H. Applicable Rules

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
Halon	District Rule	1418

[RULE 1418, 9-10-1999]

[Devices subject to this condition : E53]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 10-1-2004]

[Devices subject to this condition : E50]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415

[RULE 1415, 10-14-1994]

[Devices subject to this condition : E51]

I. Administrative

I331.1 The conditions and requirements for this device in Section H shall take effect, and shall supersede those in Section D, when the modifications authorized in Section H are completed. The operator shall notify the AQMD when the modifications are completed.

[RULE 202, 5-7-1976; RULE 202, 12-3-2004]

[Devices subject to this condition : D28]

K. Record Keeping/Reporting

K40.1 The operator shall provide to the District a source test report in accordance with the following specifications:

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Source test results shall be submitted to the District no later than 30 days after the source test was conducted.

Emission data shall be expressed in terms of concentration (ppmv), corrected to 15 percent oxygen, dry basis.

All exhaust flow rate shall be expressed in terms of dry standard cubic feet per minute (DSCFM) and dry actual cubic feet per minute (DACFM).

All moisture concentration shall be expressed in terms of percent corrected to 15 percent oxygen.

Source test results shall also include ammonia injection rate under which the test was conducted.

Source test results shall also include water-to-fuel ratio under which the test was conducted.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 2012, 5-6-2005]

[Devices subject to this condition : D28, D35]

K48.1 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number D 12- 5

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D47, D48]

K48.2 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Condition Number D 12- 6

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D57]

K48.4 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 7

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D68, D69]

K48.5 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 6

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D73, D74]

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the operator shall calculate and record the water to fuel mass ratio for the gas turbine.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 5-6-2005]

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D28, D35]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Quartly cleaning and maintenance

[RULE 3004(a)(4)-Periodic Monitoring, 8-11-1995]

[Devices subject to this condition : C14]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C27, C58, C75, C76, C77]

K67.4 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

FACILITY PERMIT TO OPERATE B BRAUN MEDICAL, INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E52]

K67.5 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

Fuel usage

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D54]