



South Coast Air Quality Management District

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

March 11, 2011

Mr. Gerardo C. Rios
Chief, Permits Office
U.S. EPA Region IX, AIR 3
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

Subject: Abbott Cardiovascular Systems – I.D. No. 45489, Title V Permit
Modification

Abbott Cardiovascular Systems (ID 45489) has proposed to revise their Title V Permit as follows:

- Change of condition/process modification for three scrubbers venting acid polishing operations

This is a medical device manufacturing facility located at 26531 Ynez Rd., Temecula, CA.

The proposed permit revision is considered as a “deminimis significant permit revision” to their Title V Permit. Enclosed for your review are the permit evaluation and proposed permit for the proposed permit revision. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period will begin on March 11, 2011.

If you have any questions or need additional information regarding the proposed permit revision, please contact Ms. Dixie Richards at (909) 396-2395.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brian L. Yeh', written over a large, stylized flourish.

Brian L. Yeh
Senior Manager
Chemical/Mechanical Operations

BLY:DR

Enclosure

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>ENGINEERING DIVISION</i> APPLICATION PROCESSING AND CALCULATIONS	PAGES 3	PAGE 1
	APPL. NO. See below	DATE 1/28/10
	PROCESSED BY DR	CHECKED BY

COMPANY NAME: ABBOTT CARDIOVASCULAR SYSTEMS AKA ABBOTT VASCULAR SYSTEMS
PREVIOUSLY KNOWN AS GUIDANT, ADVANCED CARDIOVASCULAR

COMPANY ADDRESS: 26531 YNEZ RD
TEMECULA, CA 92591

EQUIPMENT LOCATION: SAME AS ABOVE

EQUIPMENT DESCRIPTION

A/N 518884

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER NO. 1, HARRINGTON, MODEL ECH 44-5 LB, 5' -8" W. x 11' -8" L x 6' -11" H, WITH SPRAY NOZZLE.
2. EXHAUST SYSTEM WITH TWO 20-HP BLOWERS, VENTING UP TO 10 BENCH-TYPE ACID POLISHING BAYS.

ANs 518885, 518886

AIR POLLUTION CONTROL SYSTEMS, EACH CONSISTING OF:

1. SCRUBBER, HARRINGTON, MODEL ECH 4, 4' -0" W. x 12' -0" L x 7' -3" H, WITH LANPAC POLYPROPYLENE PACKING MEDIA, SPRAY NOZZLES, AND MIST ELIMINATOR.
2. EXHAUST SYSTEM WITH TWO 5.36-HP BLOWERS, VENTING UP TO EIGHT BENCH TYPE ACID POLISHING BAYS.

A/N 518883

TITLE V MODIFICATION

BACKGROUND

518884: Previous A/N 487422, P/N G5758
518885: Previous A/N 393358, P/N F49549
518886: Previous A/N 393357, P/N F49550

A Notice of Violation was issued for non compliance with scrubber pH conditions for four scrubbers (the three above, and another scrubber which is currently out of service). Two of the scrubbers had pH limits of between 7 - 8, and the other two (one now out of service) had pH limits of 8 or above. In a meeting on 10/12/10, it was agreed that the upper limit would be removed, upon submittal of change of condition applications. However, there were also extended periods of pH down around 6.

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The above applications were submitted 2/11/11 for change of conditions, as required under the abatement order dated 1/27/11. The applications also include a request for process modification (inclusion of additional toxic materials, thus an increase in some toxic emissions). Expedited processing was requested, as required by the abatement order, but personnel are not available to work overtime on this project. Fee submitted was not sufficient to cover process modification with overtime (lower fee for change of condition was submitted).

PROCESS DESCRIPTION

Abbott Cardiovascular manufactures therapeutic medical devices for the treatment of atherosclerotic disease of the coronary and peripheral arteries. These devices include angioplasty balloon catheters, guide wires, wire-mesh stents, and accessories.

The scrubbers are used to control emissions from acid polishing. Hydrochloric, nitric, sulfuric, and phosphoric acids are used, and also ethylene glycol.

EMISSION CALCULATIONS

Applicant's calculations assumed 10% acid loss (emission back calculated from manifest of material recovered and shipped out), but they could not provide documentation. Documentation that was provided (comparison of purchase orders to material recovered) indicates 25% loss. Health risk assessment submitted January 2011 and reviewed by District modeling staff assumed no control. 95% control is assumed for a properly functioning scrubber.

Using the manifest data from the health risk assessment, and ratio based on the revised % loss
 $(12.6/.75) - 12.6 = 4.2$ gpd loss, uncontrolled (vs 1.4 assumed in HRA)
 Controlled emission = $4.2 \text{ gpd} \times 0.05 = 0.21 \text{ gpd}$
 $0.21 \text{ gpd} \times 15.35 \text{ lb/gal} = 3.22 \text{ lb/day}$ (using highest density)
 $0.21 \text{ gpd} \times 11.8 \text{ lb/gal} = 2.5 \text{ lb/day}$ (using average density)

RULE REVIEW

- Rule 219 Even if the acid polishing tanks are exempt from permit, there is not an exemption for the control. Permits are required for the scrubbers.
- Rule 212 Standards for approving permits
- 212(c)(1) Using the website Great Schools, the closest school, Temecula Montessori, is 0.4mile (2112 feet) from Abbott Cardiovascular. A public notice is not required under this paragraph.
- 212(c)(2) All pollutant emissions are less than the threshold. A public notice is not required under this paragraph.
- 212(c)(3) Risk does not exceed R1401 threshold. A public notice is not required under this paragraph.
- RULE 401 Visible emissions
Compliance is expected
- RULE 402 Nuisance
Compliance is expected

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>ENGINEERING DIVISION</i> APPLICATION PROCESSING AND CALCULATIONS	PAGES 3	PAGE 3
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REG XIII **New Source Review**
 Achieved in practice BACT is a caustic scrubber with pH limit of 8 or above. Facility claimed 8 was not necessary since the amount of acid is small, but did not provide requested calculations to support a lower limit. Further, pH excursions below 7 (due to lag time per the applicant) indicate that there needs to be a "margin of error". All scrubbers will be conditioned to pH 8 or above.

RULE 1401 **Toxics**
 Modeling submitted by the applicant January 2011 indicated chronic and acute risk of less than one for 1.4 gpd loss. District review indicated a somewhat higher risk value than as submitted, but still less than one. Revised risk for 4.2 gpd loss uncontrolled would result in a risk greater than one, but controlled loss (0.21 gpd) would be expected to have a risk well below one. Compliance is expected with properly functioning scrubbers (See discussion above).

REG XXX **Title V**
 Applicant initially requested removal of pH limits and recordkeeping requirements. This is not acceptable, as pH limits and continuous or daily monitoring are requirements under guidelines for *Title V Periodic Monitoring, testing and recordkeeping requirements for AQMD rules*.

This is a diminimus significant permit revision. 45 day EPA notice is required.

DISCUSSION

Applicant has requested that conditions be standardized for the scrubbers. Requested conditions include removing the recordkeeping requirement for operation and cleaning from the two scrubbers that had that condition previously (A/Ns 393357, 393358). The pressure differential requirement is considered to be adequate.

Applicant has requested a condition which allows some additional toxics which were previously excluded per permit condition (previous A/N 487422, P/N G5758), or not specified in previous submittal, thus excluded by condition that "operation of this equipment shall be conducted in accordance with all data and specifications under which this permit is issued unless otherwise noted"... Risk assessment was done based on all the requested toxics, and is acceptable so long as emissions are controlled properly.

Conditions specify that the requirements apply "when the equipment it serves is in operation". Applicant has requested that an additional condition be added that states requirements "shall not apply when the scrubber is shut down for maintenance and/or the equipment it serves is not in operation". If the scrubbers are shut down for maintenance, the acid polishing operation should not be in use; therefore, this requested condition will not be added. Applicant has been informed that they must either keep records to demonstrate when the acid polishing equipment is not in operation or, in lieu of keeping such records, comply with the scrubber conditions at all times.

CONCLUSIONS AND RECOMMENDATION

Approval of conditional permits to operate are recommended. Inspector to follow up on any additional permit requirements resulting from the change in materials processed.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

MEMORANDUM

DATE: January 21, 2011
TO: Brian Yeh
FROM: Naveen Berry
SUBJECT: Modeling Review of Abbott Vascular Systems, Inc. Scrubbers Project

As you requested, Planning, Rule Development & Area Sources (PRA) staff reviewed the modeling performed for the Health Risk Assessment report (HRA) for the scrubbers located at 26531 Ynez Road, in the City of Temecula. The HRA was submitted along with the modeling review requesting memo dated January 13, 2011. Our comments on the HRA are as follows:

• **Application of HARP for the Health Risk Impacts**

- ✓ The applicant performed the risk assessment with the Hot Spots Analysis and Reporting Program (HARP, version 1.4c). The District HRA procedures require HARP to be used in Tier 4 risk assessments. Although the EPA ISCST3 computer model (version 02035) is the most recent version, HARP utilizes ISCST3 (version 99155) for the dispersion modeling.
- ✓ The source parameters and emission factors used are consistent with the information contained in the HARP transaction file and Tables 2 and 3 of the HRA, and are assumed to be correct.
- ✓ The applicant used the District's Riverside meteorological data in the modeling analysis, which is appropriate for the project impact area.
- ✓ The ISCST3 modeling generally conforms to the District's dispersion modeling procedures. The receptor grid spacing and the area covered are adequate to determine the maximum impacts from the facility. Building downwash was utilized.
- ✓ The applicant estimated the health risks for the scrubbers from the use of hydrochloric acid, nitric acid, sulfuric acid, phosphoric acid, and ethylene glycol.
- ✓ There are no cancer risks associated with the pollutants emitted from the scrubbers. The area immediately surrounding the project is made up of commercial and industrial uses and the nearest residential receptor is approximately 0.25 miles to the southeast.
- ✓ The peak acute hazard index is 0.60, which is higher than the 0.43 listed in the HRA. The peak chronic hazard index is 0.88. These total facility risks are less than a hazard index of 1, which is the Rule 1401 non-cancer permit limit.

Modeling staff spent a total of 10 hours on this review. Please direct any questions to Thomas Chico at ext. 3149.

TC:JB

cc: Dixie Richards



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

DRAFT



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
279359	D71648	OVEN, BAKING
286476	D88226	SPRAY BOOTH OTHER
309075	D96520	OVEN, BAKING
317616	F4131	I C E (>500 HP) EM ELEC GEN DIESEL
338638	F13090	I C E (50-500 HP) EM ELEC GEN-DIESEL
358501	F22021	I C E (>-500 HP) EM ELEC GEN-DIESEL
518886		SCRUBBER
518885		SCRUBBER
419503	F71623	AIR POLLUTION CONTROL SYSTEM
429270	F71663	LASER CUTTING MACHINE
443789	F83293	I C E (>-500 HP) EM ELEC GEN-DIESEL
447835	F83295	ETHYLENE OXIDE STERILIZER, HOSPITAL
447836	F83294	ETHYLENE OXIDE STERILIZER, HOSPITAL
447837	F83299	AIR POLLUTION CONTROL SYSTEM
518884		AIR POLLUTION CONTROL SYSTEM
497147	G5761	AIR POLLUTION CONTROL SYSTEM
487407		BOILER (5-20 MMBTU/HR) NAT GAS ONLY
487409		BOILER (5-20 MMBTU/HR) NAT GAS ONLY
487410		BOILER (5-20 MMBTU/HR) NAT GAS ONLY

NOTE: EQUIPMENT LISTED ABOVE THAT HAS NO CORRESPONDING PERMIT TO OPERATE NUMBER IS ISSUED PERMIT TO CONSTRUCT. THE ISSUANCE OR DENIAL OF ITS PERMIT TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGLEMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]
2. THE OPERATOR SHALL NOT USE FUEL OIL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 15 PPM BY WEIGHT. [RULE 431.2]
3. THE OPERATOR SHALL NOT USE GASEOUS FUEL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED OVER FOUR HOURS. [RULE 431.1].
4. THE OPERATOR SHALL LIMIT THE PLANTWIDE NITROGEN OXIDES (NO_x) EMISSIONS TO LESS THAN FOUR (4) TONS IN ANY ONE YEAR. [RULE 1303(b)(2)-OFFSET]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. D71648
A/N 279359**

Equipment Description:

BAKE OVEN, GRUENBERG, 4'-0" W. X 6'-0" L. X 11'-0" H., NATURAL GAS FIRED, WITH ONE 788,000 BTU/HR BURNER, ONE 1/3-H.P. COMBUSTION AIR FAN, TWO 10-H.P. CIRCULATING FANS, AND ONE 3/4-H.P. EXHAUST FAN.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE TOTAL QUANTITY OF COATINGS USED IN THE COATING OF ARTICLES PROCESSED IN THIS EQUIPMENT SHALL NOT EXCEED 1 GALLON IN ANY ONE DAY.
[RULE 1303(b)(2)-OFFSET]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. D88226
A/N 286476**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SPRAY BOOTH, FLOOR TYPE, TSI MODEL 3133, 4' W. X 10'-6" L., WITH TEN 20" X 20" EXHAUST FILTERS, AND A 1.5 H.P. EXHAUST FAN.
2. SCRUBBER, PACKED TOWER TYPE, DUALL, MODEL FW303, 11'-4" H. X 3'-9" DIA. OVERALL DIMENSIONS, WITH A 2 H.P. RECIRCULATION PUMP, AND A 5 H.P. BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE SPRAY BOOTH SHALL NOT BE OPERATED UNLESS ALL EXHAUST AIR PASSES THROUGH FILTER MEDIA AT LEAST 2 INCHES THICK.
[RULE 1303(a)(1)-BACT]
4. A GAUGE SHALL BE INSTALLED TO INDICATE, IN INCHES OF WATER, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE SPRAY BOOTH EXHAUST FILTERS. IN OPERATION, THE PRESSURE DIFFERENTIAL SHALL NOT EXCEED 0.25 INCH OF WATER.
[RULE 1303(a)(1)-BACT]
5. A FLOWMETER, INDICATING GALLONS PER MINUTE, SHALL BE INSTALLED IN THE SCRUBBER RECIRCULATION LINE.
[RULE 1303(a)(1)-BACT]
6. NOT LESS THAN 40 GALLONS PER MINUTE OF WATER SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
7. THERE SHALL BE A CONTINUOUS OVERFLOW OF WATER FROM THE SCRUBBER SUMP.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

8. THE OPERATOR SHALL DETERMINE AND RECORD THE FLOW RATE OF THE SCRUBBING SOLUTION ONCE EVERY DAY.
[RULE 3004 (a)(4) MONITORING AND RECORDKEEPING]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

VOC: RULE 1107, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 481

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

[RULES 109, 404, 481, 1107, 1171]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. D96520
A/N 309075**

Equipment Description:

OVEN, GRIEVE, MODEL NO. TB-500, SERIAL NO. 640910, 5'-4" W. X 6'-3" L. X 5'-10" H., WITH ONE 24 KW ELECTRIC HEATER, ONE 1 HP CIRCULATING FAN AND ONE 1/3 HP EXHAUST FAN.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY COMPOUNDS IDENTIFIED AS CARCINOGENIC AIR CONTAMINANTS IN RULE 1401 AS AMENDED DECEMBER 7, 1990.
[RULE 1401]
4. THE TOTAL QUANTITY OF COATINGS USED IN THIS EQUIPMENT SHALL NOT EXCEED 25 POUNDS IN ANY ONE DAY.
[RULE 1303(b)(2)- OFFSET]
5. IN ADDITION TO THE RECORD KEEPING REQUIREMENTS IN RULE 109, THE OPERATOR SHALL KEEP ADEQUATE RECORDS FOR THIS EQUIPMENT TO VERIFY DAILY COATING USAGE IN POUNDS. ALL RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, SHALL BE RETAINED ON THE PREMISES FOR AT LEAST FIVE YEARS, AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
[RULE 109, 1303(b)(2)- OFFSET]
6. THIS OVEN SHALL NOT BE OPERATED AT TEMPERATURES ABOVE 220 DEGREES FAHRENHEIT.
[RULE 401]

Emissions And Requirements:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
[RULE 404]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F4131
A/N 317616**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, MODEL 3512 TA, TWELVE CYLINDER, DIESEL FUELED, 1568 B.H.P., TURBOCHARGED/AFTERCOOLED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
[RULE 1110.2, 1304(a)(4)-OFFSET AND MODELING EXEMPTION]
4. A NON-RESETTABLE TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINES ELAPSED OPERATING TIME.
[RULE 1110.2, 1304(a)(4)-OFFSET AND MODELING EXEMPTION]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED OPERATING TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1110.2, 1304(a)(4)-OFFSET AND MODELING EXEMPTION]
6. THIS ENGINE SHALL HAVE THE FUEL INJECTION TIMING RETARDED BY FOUR DEGREES WITH RESPECT TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
[Rule 404]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F13090
A/N 338638**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 6 CYLINDERS, TURBOCHARGED/AFTERCOOLED DIESEL FUELED, MODEL NO 3406 DITA (300 KW), DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRIC GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1110.2, 1304(a)(4)- OFFSET AND MODELING EXEMPTION]
4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 199 HOURS IN ANY ONE YEAR.
[RULE 1110.2, 1304(a)(4)- OFFSET AND MODELING EXEMPTION]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED OPERATING TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, 1304(a)(4)-OFFSET AND MODELING EXEMPTION]

Emissions And Requirements:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404. SEE APPENDIX B FOR EMISSION LIMITS
[Rule 404]



FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.

PERMIT TO OPERATE

Permit No. F22021
A/N 358501

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3516 DITA (1750 KW), 2518 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. A TIMER SHALL BE MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303(a)(1)-BACT]
4. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 72 HOURS IN ANY ONE YEAR.
[RULE 1303(a)(1)-BACT]
5. AN ENGINE OPERATING LOG LISTING THE DATE OF OPERATION, THE ELAPSED TIME, IN HOURS, AND THE REASON FOR OPERATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF TWO YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(a)(1)-BACT]
6. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN 'REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT'.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404. SEE APPENDIX B FOR EMISSION LIMITS
[RULE 404]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No.
A/N 518886**

Equipment Description

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, HARRINGTON, MODEL ECH 4, 4' -0" W. x 12' -0" L x 7' -3" H, WITH LANPAC POLYPROPYLENE PACKING MEDIA, SPRAY NOZZLES, AND MIST ELIMINATOR.
2. EXHAUST SYSTEM WITH TWO 5.36-HP BLOWERS, VENTING UP TO EIGHT BENCH TYPE ACID POLISHING BAYS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF SEPTEMBER 10, 2010 OR EARLIER, EXCEPT FOR SODIUM HYDROXIDE, PHOSPHORIC ACID, HYDROCHLORIC ACID, SULFURIC ACID, NITRIC ACID, AND ETHYLENE GLYCOLS.
[Rule 1401]
4. A DIFFERENTIAL PRESSURE GAUGE, INDICATING INCHES OF WATER COLUMN, SHALL BE INSTALLED AND MAINTAINED ACROSS THE SCRUBBER. THE DIFFERENTIAL PRESSURE ACROSS THE PACKING SHALL NOT EXCEED 2.0 INCHES OF WATER COLUMN WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]
5. A CONTINUOUS FLOW METER INDICATING THE FLOW RATE IN GALLONS PER MINUTE SHALL BE INSTALLED AND MAINTAINED ON THE RECIRCULATION LINE TO THE SCRUBBER. NOT LESS THAN 80 GALLONS PER MINUTE OF RECIRCULATING SCRUBBER SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]



FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.

6. AN AUTOMATIC PH METER AND CONTROLLER SHALL BE INSTALLED AND MAINTAINED TO CONTINUOUSLY MEASURE AND RECORD THE pH OF THE RECIRCULATION SCRUBBING SOLUTION. THE SCRUBBING SOLUTION SHALL BE MAINTAINED AT pH 8.0 OR HIGHER WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]

Periodic Monitoring:

7. A DAILY OPERATION RECORD OF THIS EQUIPMENT SHALL BE MAINTAINED IN A WRITTEN FORM. THE RECORD SHALL INCLUDE, AT A MINIMUM, THE MINIMUM PH OF THE SCRUBBING SOLUTION, DIFFERENTIAL PRESSURE ACROSS THE SCRUBBER, AND FLOW RATE OF THE SCRUBBING SOLUTION AND MAKE UP WATER. THESE RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST BY DISTRICT PERSONNEL.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No.
A/N 518885**

Equipment Description

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, HARRINGTON, MODEL ECH 4, 4' -0" W. x 12' -0" L x 7' -3" H, WITH LANPAC POLYPROPYLENE PACKING MEDIA, SPRAY NOZZLES, AND MIST ELIMINATOR.
2. EXHAUST SYSTEM WITH TWO 5.36-HP BLOWERS, VENTING UP TO EIGHT ACID POLISHING BAYS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF SEPTEMBER 10, 2010 OR EARLIER, EXCEPT FOR SODIUM HYDROXIDE, PHOSPHORIC ACID, HYDROCHLORIC ACID, SULFURIC ACID, NITRIC ACID, AND ETHYLENE GLYCOLS.
[Rule 1401]
4. A DIFFERENTIAL PRESSURE GAUGE, INDICATING INCHES OF WATER COLUMN, SHALL BE INSTALLED AND MAINTAINED ACROSS THE SCRUBBER. THE DIFFERENTIAL PRESSURE ACROSS THE PACKING SHALL NOT EXCEED 2.0 INCHES OF WATER COLUMN WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]
5. A CONTINUOUS FLOW METER INDICATING THE FLOW RATE IN GALLONS PER MINUTE SHALL BE INSTALLED AND MAINTAINED ON THE RECIRCULATION LINE TO THE SCRUBBER. NOT LESS THAN 80 GALLONS PER MINUTE OF RECIRCULATING SCRUBBER SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

6. AN AUTOMATIC PH METER AND CONTROLLER SHALL BE INSTALLED AND MAINTAINED TO CONTINUOUSLY MEASURE AND RECORD THE pH OF THE RECIRCULATION SCRUBBING SOLUTION. THE SCRUBBING SOLUTION SHALL BE MAINTAINED AT pH 8.0 OR HIGHER WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]

Periodic Monitoring:

7. A DAILY OPERATION RECORD OF THIS EQUIPMENT SHALL BE MAINTAINED IN A WRITTEN FORM. THE RECORD SHALL INCLUDE, AT A MINIMUM, MINIMUM PH OF THE SCRUBBING SOLUTION, DIFFERENTIAL PRESSURE ACROSS THE SCRUBBER, AND FLOW RATE OF THE SCRUBBING SOLUTION AND MAKE UP WATER. THESE RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST BY DISTRICT PERSONNEL.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F71623
A/N 419503**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER, DONALDSON, MODEL ETO ABATOR, WITH 8.5 KW ELECTRICAL PREHEATER .
2. EXHAUST SYSTEM WITH A 3/4-H.P. BLOWER VENTING TO TWO STERILIZERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. CATALYST BED TEMPERATURE SHALL BE MAINTAINED ABOVE 280 DEGREES F AND NOT TO EXCEED 500 DEGREES F EXCEPT DURING START-UP OPERATIONS.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL NOT BE PURGED OR AIRWASHED UNLESS IT IS VENTED TO THE AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE IN FULL USE WHEN THE STERILIZER IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
6. THE STERILIZER EXHAUST SYSTEM SHALL BE LEAK FREE.
[RULE 1303(a)(1)-BACT]
7. LEAK INSPECTIONS SHALL BE CONDUCTED ONCE EVERY SIX MONTHS IN ACCORDANCE WITH RULE 1405.
[RULE 1405]
8. RECORDS OF THE LEAK INSPECTIONS SHALL BE MAINTAINED IN ACCORDANCE WITH RULE 1405, AND KEPT ON FILE FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT STAFF UPON REQUEST.
[Rue 1405]
9. THIS EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1405.
[Rule 1405]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F71663
A/N 429270**

Equipment Description

LASER CUTTING SYSTEM CONSISTING OF:

1. 15 LASER CUTTING MACHINES, QUANTRONIX, MODEL 532DP-O, EACH 7.5 WATTS, 2' -10" W x 7' -3" L x 7' -2" H.
2. 15 LASER CUTTING MACHINES, LASAG, MODEL KLS246, EACH 6 WATTS, 3' -2" W x 6' -9" L x 5' -4" H.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW. [TO COMPLY WITH COND. 3, THE OPERATOR SHALL INSTALL AND MAINTAIN A PH METER TO ACCURATELY INDICATE THE PH OF THE EFFLUENT OF THE SCRUBBER.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT PROCESS MORE THAN 12,000 STENTS OF STAINLESS STEEL OR COBALT CHROME IN ANY ONE DAY.
[RULE 1401]

Periodic Monitoring

4. THE OPERATOR SHALL KEEP A DAILY RECORD OF THE NUMBER OF STENTS AND THE TYPE OF ALLOY PROCESSED. SUCH RECORD SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND SHALL BE AVAILABLE TO DISTRICT STAFF UPON REQUEST.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



FACILITY PERMIT TO OPERATE ABBOTT CARDIOVASCULAR SYSTEMS, INC.

PERMIT TO OPERATE

Permit No. F83293
A/N 443789

Equipment Description:
INTERNAL COMBUSTION ENGINE, CATERPILLAR, 6 CYLINDER, TURBOCHARGED, AFTERCOOLED,
MODEL 3456 DITA AA, 764 BHP, DIESEL FUELED, DRIVING AN EMERGENCY ELECTRICAL
GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATION OF THIS ENGINE BEYOND 20 HOURS PER YEAR FOR MAINTENANCE AND PERFORMANCE TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO ROTATING OUTAGES, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED, OR HAS INDICATED THAT THE DISTRIBUTION COMPANY IS EXPECTED TO ISSUE SUCH ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN THE UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1470]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN A TOTAL OF 200 HOURS IN ANY ONE CALENDAR YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS FOR MAINTENANCE AND PERFORMANCE TESTING.
[RULE 1470]
5. AN OPERATIONAL, NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1470]
6. THIS ENGINE SHALL NOT BE USED AS PART OF A DEMAND RESPONSE PROGRAM USING INTERRUPTIBLE SERVICE CONTRACT IN WHICH A FACILITY RECEIVES A PAYMENT OR REDUCED RATE IN RETURN FOR REDUCING ITS ELECTRIC LOAD ON THE GRID WHEN REQUESTED TO DO SO BY THE UTILITY COMPANY OR THE GRID OPERATOR.
[RULE 1470]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

7. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULES 431.2 AND 1470.
[RULES 431.2, 1470]

Periodic Monitoring

8. AN ENGINE OPERATING LOG SHALL BE MAINTAINED ON A MONTHLY BASIS, WHICH SHALL INCLUDE MANUAL AND AUTOMATIC OPERATION AND SHALL LIST ALL ENGINE OPERATIONS IN EACH OF THE FOLLOWING AREAS:
- A. EMERGENCY USE HOURS OF OPERATION
 - B. MAINTENANCE AND TESTING HOURS
 - C. OTHER OPERATING HOURS (DESCRIBE THE REASON FOR OPERATION). IN ADDITION, EACH TIME THE ENGINE IS STARTED MANUALLY, THE LOG SHALL INCLUDE THE DATE OF OPERATION AND THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT STAFF UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED SOMETIME DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
- [RULE 3004(a)(4)- MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F83295
A/N 447835**

Equipment Description:

STERILIZER, ETHYLENE OXIDE, 3M MODEL 8 XL, 8.8 CUBIC FEET INTERNAL CAPACITY.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATOR SHALL NOT OPERATE THIS STERILIZER UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[Rule 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL NOT USE MORE THAN 170 GRAMS OF ETHYLENE OXIDE IN ANY ONE CYCLE.
[Rule 1401]
5. THE OPERATOR SHALL CONDUCT NO MORE THAN TWO STERILIZING CYCLES IN THIS EQUIPMENT IN ANY ONE DAY.
[Rule 1401]
6. THE OPERATOR SHALL MAINTAIN THE STERILIZER EXHAUST SYSTEM TO BE LEAK FREE, WITH LEAK TESTS CONDUCTED EVERY SIX MONTHS IN ACCORDANCE WITH THE TEST METHODS SPECIFIED IN RULE 1405.
[Rule 1405]
7. THE OPERATOR SHALL NOT PURGE OR AIRWASH THIS EQUIPMENT UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE.
[Rule 1304(a)(1)]

Periodic Monitoring:

8. THE OPERATOR SHALL MAINTAIN A DAILY OPERATING LOG AND RECORD THE LEAK TESTS IN ACCORDANCE WITH RULE 1405, WHICH SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS, AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)- MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F83294
A/N 447836**

Equipment Description:

STERILIZER, ETHYLENE OXIDE, 3M, MODEL 8XL, 8.8 CUBIC FEET INTERNAL CAPACITY.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATOR SHALL NOT OPERATE THIS STERILIZER UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[Rule 1304(a)(1) BACT]
4. THIS EQUIPMENT SHALL NOT USE MORE THAN 170 GRAMS OF ETHYLENE OXIDE IN ANY ONE CYCLE.
[Rule 1401]
5. THE OPERATOR SHALL CONDUCT NO MORE THAN TWO STERILIZING CYCLES IN THIS EQUIPMENT IN ANY ONE DAY.
[Rule 1401]
6. THE OPERATOR SHALL MAINTAIN THE STERILIZER EXHAUST SYSTEM TO BE LEAK FREE, WITH LEAK TESTS CONDUCTED EVERY SIX MONTHS IN ACCORDANCE WITH THE TEST METHODS SPECIFIED IN RULE 1405.
[RULE 1405]
7. THE OPERATOR SHALL NOT PURGE OR AIRWASH THIS EQUIPMENT UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO OPERATE.
[RULE 1304(a)(1) BACT]

Periodic Monitoring:

8. THE OPERATOR SHALL MAINTAIN A DAILY OPERATING LOG AND RECORD THE LEAK TESTS IN ACCORDANCE WITH RULE 1405, WHICH SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS, AND BE MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1405, 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO OPERATE

**Permit No. F83299
A/N 447837**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER, 3M, MODEL 50 SCFM, 5 KW ELECTRIC PREHEATER.
2. EXHAUST BLOWER, 2 HP, 50 CFM

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE CATALYST BED TEMPERATURE SHALL BE MAINTAINED ABOVE 280 BUT NOT TO EXCEED 500 DEGREES F EXCEPT DURING START-UP OPERATIONS OF THIS EQUIPMENT.
[RULE 1303(a)(1)-BACT]
4. THE OPERATOR SHALL INSTALL AND MAINTAIN A CONTINUOUS TEMPERATURE INDICATOR AND RECORDER TO ACCURATELY INDICATE AND RECORD THE TEMPERATURE AT THE EXHAUST OF THE OXIDIZER.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL BE IN FULL USE WHEN THE STERILIZER IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
6. ONLY ONE STERILIZER SHALL BE VENTED TO THIS EQUIPMENT AT ANY ONE TIME. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF RULE 1405.
[RULE 1303(a)(1)-BACT]
7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF RULE 1405.
[RULE 1405]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO CONSTRUCT/OPERATE

**Permit No.
A/N 518884**

Equipment Description

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. SCRUBBER, HARRINGTON, MODEL ECH 44-5 LB, 5' -8" W. x 11' -8" L x 6' -11" H, WITH SPRAY NOZZLE.
2. EXHAUST SYSTEM WITH TWO 20-HP BLOWERS, VENTING UP TO 10 BENCH-TYPE ACID POLISHING BAYS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF SEPTEMBER 10, 2010 OR EARLIER, EXCEPT FOR SODIUM HYDROXIDE, PHOSPHORIC ACID, HYDROCHLORIC ACID, SULFURIC ACID, NITRIC ACID, AND ETHYLENE GLYCOLS.
[Rule 1401]
4. A DIFFERENTIAL PRESSURE GAUGE, INDICATING INCHES OF WATER COLUMN, SHALL BE INSTALLED AND MAINTAINED ACROSS THE SCRUBBER. THE DIFFERENTIAL PRESSURE ACROSS THE PACKING SHALL NOT EXCEED 2.0 INCHES OF WATER COLUMN WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1405]
5. A CONTINUOUS FLOW METER INDICATING GALLONS PER MINUTE SHALL BE MAINTAINED IN THE SCRUBBING SOLUTION RECIRCULATION LINE TO THE SCRUBBER. NOT LESS THAN 55 GALLONS PER MINUTE OF RECIRCULATING SCRUBBER SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

6. THE SCRUBBING SOLUTION TO THE SCRUBBER NOZZLES SHALL BE MAINTAINED AT pH 8.0 OR HIGHER WHEN THE EQUIPMENT IT SERVES IS IN OPERATION. AN AUTOMATIC pH METER AND CONTROLLER SHALL BE INSTALLED AND MAINTAINED TO CONTINUOUSLY MEASURE AND RECORD THE pH OF THE SOLUTION.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

7. A DAILY OPERATION RECORD OF THIS EQUIPMENT SHALL BE MAINTAINED IN A WRITTEN FORM. THE RECORD SHALL INCLUDE, AT A MINIMUM, THE MINIMUM PH OF THE SCRUBBING SOLUTION, DIFFERENTIAL PRESSURE ACROSS THE SCRUBBER, AND FLOW RATE OF THE SCRUBBING SOLUTION AND MAKE UP WATER. THESE RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE UPON REQUEST BY DISTRICT PERSONNEL.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G5761
A/N 497147**

Equipment Description

AIR POLLUTION CONTROL SYSTEM NO. 1 CONSISTING OF:

1. SCRUBBER, HARRINGTON, MODEL ECH 4, 4' -0" W. X 12' -0" L. X 7' -3" H, WITH SPRAY NOZZLE.
2. EXHAUST SYSTEM WITH TWO 20-HP BLOWERS, VENTING BENCH-TYPE POLISHING STATIONS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS IDENTIFIED IN RULE 1401, TABLE I, WITH AN EFFECTIVE DATE OF MARCH 7, 2008 OR EARLIER, EXCEPT FOR SODIUM HYDROXIDE (CAS # 1310-73-2), PHOSPHORIC ACID (CAS # 7664-38-20), AND HYDROCHLORIC ACID (CAS # 7647-01-0).
[Rule 1401]
4. NOT LESS THAN 55 GALLONS PER MINUTE OF RECIRCULATING SCRUBBER SOLUTION SHALL BE SUPPLIED TO THE SCRUBBER SPRAY NOZZLES WHEN THE EQUIPMENT IT SERVES IS IN OPERATION.
[RULE 1303(a)(1)-BACT]
5. A FLOW METER INDICATING GALLONS PER MINUTE (GPM) SHALL BE MAINTAINED IN THE SCRUBBING SOLUTION CIRCULATION LINE TO THE SCRUBBER.
[RULE 1303(a)(1)-BACT]
6. THE SCRUBBING SOLUTION TO THE SCRUBBER NOZZLES SHALL BE MAINTAINED AT pH 8.0 OR HIGHER. THE pH METER SHALL BE USED TO MEASURE THE pH OF THE SOLUTION ON A DAILY BASIS.
[RULE 1303(a)(1)-BACT]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

Periodic Monitoring:

7. RECORDS SHALL BE MAINTAINED TO DEMONSTRATE COMPLIANCE WITH CONDITIONS 4 AND 6. THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO CONSTRUCT

**Permit No.
A/N 487407**

Equipment Description:

BOILER NO. 1, WATERTUBE TYPE, CLEAVER BROOKS MODEL FLX 700-800, EQUIPPED WITH LOW NO_x BURNER, 8 MMBTU/HR, NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE BOILER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE EVERY SIX MONTHS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RANGE. NO_x, O₂, AND CO SHALL BE MEASURED AND RECORDED ALONG WITH THE TUNE-UP PROCEDURES.
[Rule 1146]
4. THE NO_x AND CO CONCENTRATIONS, IN PARTS PER MILLION BY VOLUME (PPMV), ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS PPMV

NO _x	12
CO	100

[Rule 1303(a)-BACT]

5. THE OPERATOR SHALL NOT OPERATE ALL OF THE THREE BOILERS AT THE SAME TIME.
[Rule 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL CONDUCT A SOURCE TEST TO DETERMINE THE NO_x AND CO EMISSIONS, IN PPMV AND IN LBS/HOUR, AT THE STACK WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. SUCH SOURCE TEST SHALL BE CONDUCTED DURING THE FIRST 180 DAYS OF OPERATION AND WITHIN 45 DAYS FROM THE APPROVAL OF THE TEST PROTOCOL BY THE DISTRICT. THE SOURCE TEST REPORT SHALL INCLUDE THE CONCENTRATION IN PPM AT 3% OXYGEN AND EMISSION RATE OF NO_x AND CO IN LBS/DAY, AND SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS OF THE DATE OF THE SOURCE TEST.
[Rule 1303(a)(1)-BACT]



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Section D

Facility I.D.#: 045489

Revision #: DRAFT

Date: March 10, 2010

**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

Periodic Monitoring:

7. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 5. SUCH RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO CONSTRUCT

**Permit No.
A/N 487409**

Equipment Description:

BOILER NO. 2, WATERTUBE TYPE, CLEAVER BROOKS MODEL FLX 700-800, EQUIPPED WITH LOW NO_x BURNER, 8 MMBTU/HR, NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE BOILER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE EVERY SIX MONTHS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RANGE. NO_x, O₂, AND CO SHALL BE MEASURED AND RECORDED ALONG WITH THE TUNE-UP PROCEDURES.
[Rule 1146]
4. THE NO_x AND CO CONCENTRATIONS, IN PARTS PER MILLION BY VOLUME (PPMV), ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS PPMV

NO_x 12
CO 100
[Rule 1303(a)-BACT]
5. THE OPERATOR SHALL NOT OPERATE ALL OF THE THREE BOILERS AT THE SAME TIME.
[Rule 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL CONDUCT A SOURCE TEST TO DETERMINE THE NO_x AND CO EMISSIONS, IN PPMV AND IN LBS/HOUR, AT THE STACK WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. SUCH SOURCE TEST SHALL BE CONDUCTED DURING THE FIRST 180 DAYS OF OPERATION AND WITHIN 45 DAYS FROM THE APPROVAL OF THE TEST PROTOCOL BY THE DISTRICT. THE SOURCE TEST REPORT SHALL INCLUDE THE CONCENTRATION IN PPM AT 3% OXYGEN AND EMISSION RATE OF NO_x AND CO IN LBS/DAY, AND SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS OF THE DATE OF THE SOURCE TEST.
[Rule 1303(a)-BACT]



FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.

Periodic Monitoring:

7. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 5. SUCH RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

PERMIT TO CONSTRUCT

**Permit No.
A/N 487410**

Equipment Description:

BOILER NO. 3, WATERTUBE TYPE, CLEAVER BROOKS MODEL FLX 700-800, EQUIPPED WITH LOW NO_x BURNER, 8 MMBTU/HR, NATURAL GAS FIRED.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE BOILER SHALL BE EQUIPPED WITH A CONTROL SYSTEM TO AUTOMATICALLY REGULATE COMBUSTION AIR AND FUEL AS THE BOILER LOAD VARIES. THIS AUTOMATIC CONTROL SYSTEM SHALL BE ADJUSTED AND TUNED AT LEAST ONCE EVERY SIX MONTHS ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS TO MAINTAIN ITS ABILITY TO REPEAT THE SAME PERFORMANCE AT THE SAME FIRING RANGE. NO_x, O₂, AND CO SHALL BE MEASURED AND RECORDED ALONG WITH THE TUNE-UP PROCEDURES.
[Rule 1146]
4. THE NO_x AND CO CONCENTRATIONS, IN PARTS PER MILLION BY VOLUME (PPMV), ON A DRY BASIS CORRECTED TO 3% OXYGEN, SHALL NOT EXCEED THE FOLLOWING:

POLLUTANTS PPMV

NO_x 12
CO 100
[Rule 1303(a)-BACT]
5. THE OPERATOR SHALL NOT OPERATE ALL OF THE THREE BOILERS AT THE SAME TIME.
[Rule 1303(b)(2)-OFFSET]
6. THE OPERATOR SHALL CONDUCT A SOURCE TEST TO DETERMINE THE NO_x AND CO EMISSIONS, IN PPMV AND IN LBS/HOUR, AT THE STACK WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS. SUCH SOURCE TEST SHALL BE CONDUCTED DURING THE FIRST 180 DAYS OF OPERATION AND WITHIN 45 DAYS FROM THE APPROVAL OF THE TEST PROTOCOL BY THE DISTRICT. THE SOURCE TEST REPORT SHALL INCLUDE THE CONCENTRATION IN PPM AT 3% OXYGEN AND EMISSION RATE OF NO_x AND CO IN LBS/DAY, AND SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS OF THE DATE OF THE SOURCE TEST.
[Rule 1303(a)(1)-BACT]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

Periodic Monitoring:

7. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 5. SUCH RECORDS SHALL BE KEPT FOR AT LEAST THE LAST FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4) MONITORING AND RECORDKEEPING]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS 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 COATING.

FOR OTHER 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 COATING.

[RULE 3004 (a) (4) MONITORING AND RECORDKEEPING]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

[RULE 1113, RULE 1171]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATIONS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS
[RULE 1171]



**FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: 0.1 gr/scf, RULE 409
NOx: 30 PPMV, RULE 1146.2
CO: 400 PPMV, RULE 1146.2
CO: 2000 PPMV, RULE 407



**FACILITY PERMIT TO OPERATE
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RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, ABRASIVE BLASTING EQUIPMENT, GLOVE-BOX, < 53 FT³, WITH DUST FILTER.

Periodic Monitoring:

1. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.[RULE 3004 (a)(4) MONITORING AND RECORDKEEPING]
2. THE OPERATOR SHALL DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS.
[RULE 3004 (a)(1)]
3. 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, 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:
 - A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.[RULE 3004 (a)(4) MONITORING AND RECORDKEEPING]



FACILITY PERMIT TO OPERATE
ABBOTT CARDIOVASCULAR SYSTEMS, INC.

Emissions And Requirements:

4. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
 - PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
 - PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
 - PM: RULE 1140, SEE APPENDIX B FOR EMISSION LIMITS