



South Coast Air Quality Management District

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

December 8, 2011

Mr. Brian Philips
Director of Facility Services
Biola University
13800 Biola Avenue
La Mirada, CA 90639

SUBJECT: Title V Facility Permit Revision (Facility ID: 20445)

Dear Ms. Scantlebury:

Please find attached the revised Title Page, Table of Contents, and Section D of your Title V Facility Permit. The revised sections reflect the approval of the administrative permit revision requested in your Application No. 486772 to include the air to fuel ratio controllers in the equipment descriptions and include the addition of NOx and CO CEMS. This permit revision includes the administrative change to the internal combustion engines as follows:

Equipment	Application No.	Permit No.	Permit Type
ICE	486769	G16061	PO
ICE	486770	G16063	PO
ICE	486771	G16065	PO

Please review the attached sections carefully. Insert the enclosed sections into your Title V Facility Permit and discard the earlier versions. Questions concerning changes to your permit should be directed to Mr. Marcel Saulis at (909) 396-3093.

Sincerely,

Brian L. Yeh
Senior Engineering Manager
Mechanical, Chemical & Public Services

BLY:AYL:JTY:mbs

Attachment

cc: Gerardo Rios, EPA Region IX



FACILITY PERMIT TO OPERATE

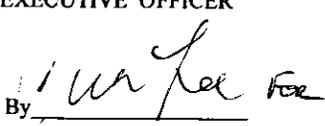
**BIOLA UNIVERSITY
13800 BIOLA AVE
LA MIRADA, CA 90639**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



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**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.



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PERMITTED EQUIPMENT LIST

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

Application number	Permit number	Equipment description
486770	G16063	I C E (>500 HP) NAT GAS
486769	G16061	I C E (>500 HP) NAT GAS
486771	G16065	I C E (>500 HP) NAT GAS
405547	F65436	SELECTIVE CATALYTIC REDUCTION
405548	F69025	SELECTIVE CATALYTIC REDUCTION
430945	F81680	SELECTIVE CATALYTIC REDUCTION

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS 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.



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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 RINGELMANN 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 OR SELL GASEOUS FUEL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED OVER FOUR HOURS.
[RULE 431.1]



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**Permit No. G16063
A/N 486770**

Equipment Description:

COGENERATION SYSTEM NO. 3 CONSISTING OF:

- INTERNAL COMBUSTION ENGINE, CATERPILLAR, NATURAL GAS FUELED, COGENERATION, MODEL NO. G3516B-LE, SERIAL NO. CAT00000LCME00261, TURBOCHARGED, AFTERCOOLED, 16 CYLINDERS, LEAN BURN, FOUR CYCLE, 1818 BHP, EQUIPPED WITH CATERPILLAR RAPTOR INJECTION WITH AIR/FUEL RATIO CONTROLLER, DRIVING AN ELECTRICAL GENERATOR.
- HEAT RECOVERY SYSTEM, CAIN, MODEL NO. HRSR-242D28CSP, SERIAL NO. 3782-2094, PRODUCING 2.43 MMBTU/HR.

Conditions:

- 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]
- THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]
- THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]
- THIS EQUIPMENT SHALL COMPLY WITH THE MONITORING AND RECORDKEEPING REQUIREMENTS IN SECTION (f)(1) OF AQMD RULE 1110.2.
[RULE 1110.2]
- THE ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS:

COMPOUND	PPMV @ 15% OXYGEN DRY BASIS
VOLATILE ORGANIC COMPOUNDS (VOC)	30
NITROGEN OXIDES (NO _x)	11
CARBON MONOXIDE (CO)	84
[RULE 1303(a)(1)-BACT, RULE 1110.2]	



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7. THIS ENGINE SHALL NOT BE OPERATED WITHOUT THE USE OF AN AUTOMATIC AIR-TO-FUEL RATIO CONTROLLER WHICH SHALL BE MAINTAINED AND KEPT IN PROPER OPERATING CONDITIONS AT ALL TIMES AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
8. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1303(a)(1)-BACT, RULE 1401]
9. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
10. THE OPERATOR SHALL INSTALL, OPERATE AND MAINTAIN IN CALIBRATION A NOX AND CO CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) AS PER RULE 1110.2. CEMS SHALL BE CERTIFIED PER RULE 218 AND SHALL INCLUDE EQUIPMENT THAT MEASURES AND RECORDS NOX AND CO EXHAUST CONCENTRATIONS, BOTH UNCORRECTED AND CORRECTED TO 15% OXYGEN ON A DRY BASIS. THE CEMS SHALL HAVE DATA GATHERING AND RETRIEVAL CAPABILITY APPROVED BY THE EXECUTIVE OFFICER.
[RULE 1110.2]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 250 PPMV, RULE 1110.2
NOx: 11 PPMV, RULE 1110.2
VOC: 30 PPMV, RULE 1110.2
CO: 0.6 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
NOx: 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT
VOC: 0.15 GRAM/BHP-HR, RULE 1303(a)(1)-BACT



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Permit No. G16061
A/N 486769

Equipment Description:

COGENERATION SYSTEM NO. 1 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE (E1), CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G3512-LE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 12 CYLINDERS, FOUR CYCLE, 861 BHP, AIR/FUEL RATIO CONTROLLER, WOODWARD MODEL NO. EGS-LB-LT, DRIVING A 600-KW ELECTRICAL GENERATOR.
2. HEAT RECOVERY SYSTEM, CATERPILLAR, PRODUCING 2.63 MMBTU/HR.

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. THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]
5. THE CONTROLLED ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS:

COMPOUND	PPMV @ 15% OXYGEN DRY BASIS
VOLATILE ORGANIC COMPOUNDS (VOC)	30
NITROGEN OXIDES (NO _x)	11
CARBON MONOXIDE (CO)	81
[RULE 1303(b)(2)-OFFSET, RULE 1303(a)(1)-BACT]	

6. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1401]



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7. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
8. THE OPERATOR SHALL INSTALL, OPERATE AND MAINTAIN IN CALIBRATION A NOX AND CO CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) AS PER RULE 1110.2. CEMS SHALL BE CERTIFIED PER RULE 218 AND SHALL INCLUDE EQUIPMENT THAT MEASURES AND RECORDS NOX AND CO EXHAUST CONCENTRATIONS, BOTH UNCORRECTED AND CORRECTED TO 15% OXYGEN ON A DRY BASIS. THE CEMS SHALL HAVE DATA GATHERING AND RETRIEVAL CAPABILITY APPROVED BY THE EXECUTIVE OFFICER.
[RULE 1110.2]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 250 PPMV, RULE 1110.2
NOx: 11 PPMV, RULE 1110.2
VOC: 30 PPMV, RULE 1110.2
CO: 0.6 GRAM/BHP-HR, RULE 1110.2
NOx: 0.15 GRAM/BHP-HR, RULE 1110.2
VOC: 0.15 GRAM/BHP-HR, RULE 1110.2



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**Permit No. G16065
A/N 486771**

Equipment Description:

COGENERATION SYSTEM NO. 2 CONSISTING OF:

1. INTERNAL COMBUSTION ENGINE (E2), CATERPILLAR, NATURAL GAS-FUELED, MODEL NO. G3512-LE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, 12 CYLINDERS, FOUR CYCLE, 861 BHP, WOODWARD MODEL NO. EGS-LB-LT, DRIVING A 600-KW ELECTRICAL GENERATOR.
2. HEAT RECOVERY SYSTEM, CATERPILLAR, PRODUCING 2.63 MMBTU/HR.

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. THIS EQUIPMENT SHALL BE FIRED WITH NATURAL GAS ONLY.
[RULE 1110.2, RULE 1303(b)(2)-OFFSET]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1110.2, RULE 1401]
5. THE CONTROLLED ENGINE EMISSIONS SHALL NOT EXCEED THE FOLLOWING LIMITS:

COMPOUND	PPMV @ 15% OXYGEN DRY BASIS
VOLATILE ORGANIC COMPOUNDS (VOC)	30
NITROGEN OXIDES (NO _x)	11
CARBON MONOXIDE (CO)	81
[RULE 1303(b)(2)-OFFSET, RULE 1303(a)(1)-BACT, RULE 1110.2]	

6. THE CATALYTIC CONVERTER TEMPERATURE AND EXHAUST OXYGEN CONCENTRATION SHALL BE MAINTAINED WITHIN THE EFFECTIVE OPERATING RANGE OF THE CATALYTIC CONVERTER AS SPECIFIED BY THE MANUFACTURER.
[RULE 1110.2, RULE 1401]



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7. THIS EQUIPMENT SHALL BE TUNED UP AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF SUCH TUNE-UPS AND MAINTENANCE SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
8. THE OPERATOR SHALL INSTALL, OPERATE AND MAINTAIN IN CALIBRATION A NOX AND CO CONTINUOUS EMISSION MONITORING SYSTEM (CEMS) AS PER RULE 1110.2. CEMS SHALL BE CERTIFIED PER RULE 218 AND SHALL INCLUDE EQUIPMENT THAT MEASURES AND RECORDS NOX AND CO EXHAUST CONCENTRATIONS, BOTH UNCORRECTED AND CORRECTED TO 15% OXYGEN ON A DRY BASIS. THE CEMS SHALL HAVE DATA GATHERING AND RETRIEVAL CAPABILITY APPROVED BY THE EXECUTIVE OFFICER.
[RULE 1110.2]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
CO: 250 PPMV, RULE 1110.2
NOx: 11 PPMV, RULE 1110.2
VOC: 30 PPMV, RULE 1110.2
CO: 0.6 GRAM/BHP-HR, RULE 1110.2
NOx: 0.15 GRAM/BHP-HR, RULE 1110.2
VOC: 0.15 GRAM/BHP-HR, RULE 1110.2



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Permit No. F65436
A/N 405547

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 1 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 1020SS-2C-14, 5'-4" L. X 2'-6" W. X 4'-4" H., WITH A HONEYCOMB TYPE CATALYST BED, WITH FOUR BLOCKS OF NO_x CATALYST CONSISTING OF TWO LAYERS EACH AND FOUR BLOCKS OF OXIDATION CATALYST CONSISTING OF TWO LAYERS EACH.
2. UREA INJECTION CONTROL SYSTEM, MODEL NO. ARIS 2000-2.
3. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 2 & 3.
4. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 1.

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. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
[RULE 1110.2]
4. THE NO_x MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
[RULE 1110.2]
5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]



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7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED TWENTY MINUTES FOR EACH COLD START-UP.
[RULE 1110.2]
8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 1000 DEGREES FAHRENHEIT.
[RULE 1110.2]
9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2]
10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1401]
11. THE FIFTEEN MINUTE AVERAGE NO_x CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 12 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE IS ABOVE 600 DEGREES FAHRENHEIT.
[RULE 1110.2]
12. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE 15-MINUTE AVERAGE NO_x CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NO_x MONITOR.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
13. A NO_x MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NO_x CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 12. THIS NO_x MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
14. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
15. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.



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[RULE 1110.2]

Emissions And Requirements:

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

NH3: 10 PPMV, RULE 1401

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS



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**Permit No. F69025
A/N 405548**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 2 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 1020SS-2C-14, 5'-4" L. X 2'-6" W. X 4'-4" H., WITH A HONEYCOMB TYPE CATALYST BED, WITH FOUR BLOCKS OF NO_x CATALYST CONSISTING OF TWO LAYERS EACH AND FOUR BLOCKS OF OXIDATION CATALYST CONSISTING OF TWO LAYERS EACH.
2. UREA INJECTION CONTROL SYSTEM, MODEL NO. ARIS 2000-2.
3. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 1 & 3.
4. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 2.

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. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
[RULE 1110.2]
4. THE NO_x MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
[RULE 1110.2]
5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]
6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.
[RULE 1110.2]



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7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED TWENTY MINUTES FOR EACH COLD START-UP.
[RULE 1110.2]
8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 1000 DEGREES FAHRENHEIT.
[RULE 1110.2]
9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2]
10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.
[RULE 1110.2, RULE 1401]
11. THE FIFTEEN MINUTE AVERAGE NO_x CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 12.75 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE IS ABOVE 600 DEGREES FAHRENHEIT.
[RULE 1110.2]
12. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE 15-MINUTE AVERAGE NO_x CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NO_x MONITOR.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
13. A NO_x MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NO_x CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 12. THIS NO_x MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
14. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2]
15. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.



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[RULE 1110.2]

Emissions And Requirements:

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

NH3: 10 PPMV, RULE 1401

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS



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PERMIT TO OPERATE

Permit No. F81680
A/N 430945

Equipment Description:

AIR POLLUTION CONTROL SYSTEM NO. 3 CONSISTING OF :

1. SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR), JOHNSON MATTHEY, MODEL NO. 2015SS-18, WITH A HONEYCOMB TYPE CATALYST BED, WITH EIGHT WHOLE (24" L. X 24" W. X 3 1/2" H) AND EIGHT HALF (12" L. X 24" W. X 3 1/2" H) BLOCKS OF NO_x CATALYST COMPRISING FOUR LAYERS.
2. OXIDATION CATALYST SYSTEM, JOHNSON MATTHEY, MODEL NO. 1020SS-18, WITH A HONEYCOMB TYPE CATALYST BED, WITH TWO WHOLE BLOCKS OF OXIDATION CATALYST CONSISTING OF ONE LAYER, ONE BLOCK WIDE X TWO BLOCKS HIGH.
3. UREA INJECTION CONTROL SYSTEM, JOHNSON MATTHEY, EQUIPPED WITH AIR ATOMIZING NOZZLES.
4. COOLING BLOWER, NEW YORK BLOWER CO., MODEL NO. 2410A, 1800 CFM.
5. UREA STORAGE TANK, 6000 GALLONS, COMMON TO COGENERATION SYSTEM NOS. 1 & 2.
6. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) AT THE OUTLET OF THE SCR.
7. EXHAUST SYSTEM VENTING ONE INTERNAL COMBUSTION ENGINE UNDER COGENERATION SYSTEM NO. 3.

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. THIS EQUIPMENT SHALL BE IN OPERATION WHENEVER THE EQUIPMENT IT SERVES IS OPERATING, EXCEPT AS OTHERWISE NOTED IN THIS PERMIT.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
4. THE NO_x MONITOR AND UREA INJECTION SYSTEM SHALL BE IN FULL OPERATION WHENEVER THE SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM IS IN USE.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
5. SAMPLING PORTS SHALL BE INSTALLED AT THE OUTLET OF THE SCR SYSTEM.



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[RULE 1110.2, RULE 1303(a)(1)-BACT]

6. THE OPERATOR SHALL INSTALL AND MAINTAIN A TEMPERATURE GAUGE TO ACCURATELY INDICATE THE TEMPERATURE IN DEGREES FAHRENHEIT AT THE INLET AND OUTLET OF THE SCR SYSTEM.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

7. THE TEMPERATURE OF THE ENGINE EXHAUST AT THE INLET OF THE SCR SYSTEM SHALL BE AT LEAST 600 DEGREES FAHRENHEIT. THE PERIOD DURING WHICH THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT IS LESS THAN 600 DEGREES FAHRENHEIT SHALL NOT EXCEED THIRTY MINUTES FOR EACH COLD START-UP.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

8. THE TEMPERATURE OF THE EXHAUST GASES ENTERING THE SCR UNIT SHALL NOT EXCEED 850 DEGREES FAHRENHEIT.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

9. THE UREA INJECTION SYSTEM SHALL BE OPERATED WHENEVER THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

10. THE HOURLY AVERAGE AMMONIA CONCENTRATION AT THE EXIT OF THE SCR UNIT SHALL NOT EXCEED 10 PPMV CORRECTED TO 15 PERCENT OXYGEN WHEN THE SCR INLET TEMPERATURE EXCEEDS 600 DEGREES FAHRENHEIT.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

11. A DATA GATHERING AND RETRIEVAL SYSTEM SHALL BE INSTALLED AND MAINTAINED TO RECORD THE FOLLOWING INFORMATION :

A. THE DATE AND TIME.

B. THE HOURLY AVERAGE AMOUNT OF FUEL USED.

C. THE 15-MINUTE AVERAGE NO_x CONCENTRATION EXITING THE SCR CORRECTED TO 15 PERCENT OXYGEN AS READ FROM THE NO_x MONITOR AND CEMS.

D. THE EXHAUST GAS INLET AND OUTLET TEMPERATURE TO THE SCR UNIT.

E. THE UREA INJECTION RATE IN LBS/HR.

F. THE TOTAL TIME ELAPSED FROM COLD START-UP TO REACHING AN SCR INLET TEMPERATURE OF 600 DEGREES FAHRENHEIT.

G. THE RATIO OF THE AMMONIA MOLAR FLOW RATE TO THE INLET NO_x MOLAR FLOW RATE.

RECORDS OF THE ABOVE INFORMATION SHALL BE KEPT AND MAINTAINED ON FILE FOR A MINIMUM OF FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2, RULE 1303(a)(1)-BACT]

12. A NO_x MONITOR SHALL BE INSTALLED AND OPERATED TO MEASURE THE OUTLET NO_x CONCENTRATION OF THE SELECTIVE CATALYTIC REDUCTION SYSTEM IN ACCORDANCE WITH CONDITION NO. 11C. THIS NO_x MONITOR SHALL BE MAINTAINED AND OPERATED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. RECORDS OF CALIBRATIONS AND MAINTENANCE FOR THE MONITOR SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 1110.2, RULE 1303(a)(1)-BACT]



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13. THE AMMONIA SLIP FOR THIS EQUIPMENT SHALL BE TESTED AT LEAST ONCE PER CALENDAR YEAR. THE TEST SHALL BE CONDUCTED USING AN AQMD-APPROVED TEST METHOD. RECORDS OF THE AMMONIA SLIP TEST SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
14. THIS SCR SYSTEM SHALL BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDED PROCEDURES. INSPECTION AND MAINTENANCE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
15. A CONTINUOUS EMISSIONS MONITORING SYSTEM (CEMS) APPROVED BY AQMD ACCORDING TO RULES 218, 218.1 AND 1110.2 SHALL BE INSTALLED AND MAINTAINED. IT SHALL MEASURE, OVER A FIFTEEN MINUTE AVERAGE TIME PERIOD, AND RECORD THE INTERNAL COMBUSTION ENGINE EXHAUST STACK FOR NO_x AND O₂ CONCENTRATIONS, ON A DRY BASIS. THE SYSTEM SHALL ALSO CONVERT THE ACTUAL NO_x CONCENTRATIONS TO A CORRECTED CONCENTRATION AT 15 PERCENT OXYGEN, ON A DRY BASIS, AND CONTINUOUSLY RECORD THE CORRECTED STACK NO_x CONCENTRATIONS. THIS MONITORING SYSTEM SHALL BE CERTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF RULES 218 AND 218.1.
[RULE 218, RULE 218.1, RULE 1110.2, RULE 1303(b)(2)-OFFSET]
16. THE CEMS SHALL BE EQUIPPED WITH A WARNING DEVICE WHICH SHALL ACTIVATE WHEN THE NO_x CONCENTRATION, AVERAGED OVER 15 MINUTES, EXCEEDS THE EMISSION LIMIT OF 13 PPMVD AT 15% OXYGEN.
[RULE 1110.2, RULE 1303(a)(1)-BACT]
17. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITION NO. 15. THESE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]

Emissions And Requirements:

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

NH₃: 10 PPMV, RULE 1401, RULE 1303(a)(1)-BACT
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS



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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)]

Emissions And Requirements:

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

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



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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 REGULATION:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS



FACILITY PERMIT TO OPERATE BIOLA UNIVERSITY

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



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Equipment Description:

RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
REFRIGERANT: RULE 1415
REFRIGERANT: 40CFR 82 SUBPART F
REFRIGERANT: 40CFR 82 SUBPART G



AQMD

FACILITY PERMIT TO OPERATE BIOLA UNIVERSITY

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, REFRIGERATION UNITS

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
REFRIGERANT: RULE 1415
REFRIGERANT: 40CFR 82 SUBPART F
REFRIGERANT: 40CFR 82 SUBPART G



FACILITY PERMIT TO OPERATE BIOLA UNIVERSITY

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS

Emissions And Requirements:

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

CR⁺⁶: RULE 1404



FACILITY PERMIT TO OPERATE BIOLA UNIVERSITY

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
REFRIGERANT: RULE 1415
REFRIGERANT: 40CFR 82 SUBPART F
REFRIGERANT: 40CFR 82 SUBPART G