



South Coast Air Quality Management District

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

November 18, 2011

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

Dear Mr. Rios:

Subject: Transmittal of Final Title V Renewal Permit

Enclosed is the final Title V renewal permit issued by the South Coast Air Quality Management District (AQMD) for AOC, LLC (Facility ID 117140), located at 19991 Seaton Avenue, Perris, California, 92570. The proposed permit for this facility was submitted to EPA Region IX for 45-day review on September 29, 2011 and made available for 30-day public comment on October 6, 2011. The AQMD did not receive any public comments on the proposed permit.

If there are specific questions on this Title V renewal permit, please contact Hassan Namaki of our Mechanical, Chemical & Public Services at (909) 396-2699.

Sincerely

A handwritten signature in black ink, appearing to read 'Mohsen Nazemi', is written over a horizontal line.

Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering and Compliance

Enclosures

C: Brian L. Yeh (w/o enclosures)



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

| | |
|--------------|-------------------|
| Title Page | |
| Facility ID: | 117140 |
| Revision #: | 31 |
| Date: | November 18, 2011 |

FACILITY PERMIT TO OPERATE

**AOC, LLC
19991 SEATON AVE
PERRIS, CA 92570**

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

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



**FACILITY PERMIT TO OPERATE
AOC, LLC**

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**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: AOC, LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 1991 SEATON AVE
PERRIS, CA 92570

MAILING ADDRESS: 1991 SEATON AVE
PERRIS, CA 92570

RESPONSIBLE OFFICIAL: JAMES EARL

TITLE: PLANT MANAGER

TELEPHONE NUMBER: (951) 943-9702

CONTACT PERSON: JUAN MONTALVO

TITLE: EHS LEADER

TELEPHONE NUMBER: (951) 943-9724

INITIAL TITLE V PERMIT ISSUED: March 17, 2005

TITLE V PERMIT EXPIRATION DATE: March 16, 2010

| TITLE V | | RECLAIM | |
|---------|--------|---------|--|
| YES | NOx: | YES | |
| | SOx: | NO | |
| | CYCLE: | 2 | |
| | ZONE: | INLAND | |



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

| Year Begin End (month/year) | Zone | NOx RTC Initially Allocated | NOx RTC ¹ Holding as of 11/18/2011 (pounds) | Non-Tradable ² Non-Usable RTCs (pounds) |
|-----------------------------------|--------|-----------------------------------|---|---|
| 7/2008 6/2009 | Inland | 5096 | 1757 | 138 |
| 7/2009 6/2010 | Inland | 5096 | 797 | 275 |
| 7/2010 6/2011 | Inland | 5096 | 1173 | 413 |
| 7/2011 6/2012 | Inland | 5096 | 3949 | 550 |
| 7/2012 6/2013 | Inland | 5096 | 3949 | 550 |
| 7/2013 6/2014 | Inland | 5096 | 3949 | 550 |
| 7/2014 6/2015 | Inland | 5096 | 3949 | 550 |
| 7/2015 6/2016 | Inland | 5096 | 3949 | 550 |
| 7/2016 6/2017 | Inland | 5096 | 3949 | 550 |
| 7/2017 6/2018 | Inland | 5096 | 3949 | 550 |
| 7/2018 6/2019 | Inland | 5096 | 3949 | 550 |
| 7/2019 6/2020 | Inland | 5096 | 3949 | 550 |
| 7/2020 6/2021 | Inland | 5096 | 3949 | 550 |
| 7/2021 6/2022 | Inland | 5096 | 3949 | 550 |
| 7/2022 6/2023 | Inland | 5096 | 3949 | 550 |
| 7/2023 6/2024 | Inland | 5096 | 3949 | 550 |
| 7/2024 6/2025 | Inland | 5096 | 3949 | 550 |

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NO_x RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NO_x emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

| Year Begin End (month/year) | Zone | NO _x RTC Initially Allocated | NO _x RTC ¹ Holding as of 11/18/2011 (pounds) | Non-Tradable ² Non-Usable RTCs (pounds) |
|-----------------------------------|--------|---|---|---|
| 7/2025 6/2026 | Inland | 5096 | 3949 | 550 |

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase in an annual allocation to a level greater than the facility's starting Allocation plus Non-Tradable credits as listed below, the application will be evaluated for compliance with Rule 2005 (c)(4). Rule 2005 (e) - Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

| Year | | Zone | NOx RTC | Non-Tradable |
|--------------|--------|--------|---------------------|--------------|
| Begin | End | | Starting Allocation | Credits(NTC) |
| (month/year) | | | (pounds) | (pounds) |
| 7/1994 | 6/1995 | Inland | 8680 | 0 |



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
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| Date: | November 18, 2011 |

**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)



FACILITY PERMIT TO OPERATE AOC, LLC

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: POLYESTER MANUFACTURING | | | | | |
| System 1: POLYESTER REACTION, MIXING STORAGE AND PACKAGING | | | | | |
| REACTOR, R1, 3000 GALLON CAPACITY, HEIGHT: 6 FT 9 IN; DIAMETER: 8 FT WITH A/N: 451093 | D1 | C38 | | ROG: 0.5 LB(S)/1000 LBS RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| FURNACE, NATURAL GAS, 3.288 MMBTU/HR | D2 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012, 12-7-1995]; NOX: 57.69 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | B75.1, D323.1 |
| CONDENSER, REFLUX COLUMN | C43 | | | | |
| REACTOR, R2, 4300 GALLON CAPACITY, HEIGHT: 8 FT 4 IN; DIAMETER: 9 FT WITH A/N: 451093 | D3 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| FURNACE, NATURAL GAS, 4 MMBTU/HR | D4 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012, 12-7-1995]; NOX: 57.69 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | B75.1, D323.1 |
| CONDENSER, REFLUX COLUMN | C44 | | | | |

- * (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 AOC, LLC

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: POLYESTER MANUFACTURING | | | | | |
| TANK, HOLDING, TT1, THINNING, JACKETED, WITH CONDENSER, HEIGHT: 13 FT 4 IN; DIAMETER: 8 FT 8 IN A/N: 451093 | D7 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| TANK, HOLDING, TT2, THINNING, JACKETED, WITH CONDENSER, HEIGHT: 14 FT 9 IN; DIAMETER: 9 FT 6 IN A/N: 451093 | D8 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| MIXER, TANK MT7, POLYESTER RESIN, JACKETED, WITH CONDENSER, HEIGHT: 12 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: 451093 | D9 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT1, HEIGHT: 6 FT ; DIAMETER: 10 FT A/N: 451093 | D10 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT2, HEIGHT: 8 FT ; DIAMETER: 10 FT A/N: 451093 | D11 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT3, HEIGHT: 11 FT 2 IN; DIAMETER: 6 FT A/N: 451093 | D12 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT4, HEIGHT: 11 FT ; DIAMETER: 10 FT A/N: 451093 | D13 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |

- * (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 AOC, LLC

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: POLYESTER MANUFACTURING | | | | | |
| MIXER, TANK MT5, HEIGHT: 12 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 451093 | D14 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT6, HEIGHT: 12 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 451093 | D15 | C38 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| PACKAGING MACHINE, DRUM FILLING STATION A/N: 451093 | D17 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| PACKAGING MACHINE, DRUM FILLING STATION A/N: 451093 | D18 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| TANK, PROMOTER, 282 GALS; DIAMETER: 4 FT ; HEIGHT: 2 FT 11 IN A/N: 451093 | D46 | | | | B59.1, E166.1 |
| System 2: SAMPLE MIXING | | | | | |
| MIXER, SAMPLE, 200 GALS; DIAMETER: 4 FT ; HEIGHT: 3 FT 6 IN A/N: 344456 | D19 | | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E166.1 |
| System 3: MATERIAL HANDLING | | | | | |
| BULK MATERIAL LOADING STATION, TANK TRUCK, WITH VAPOR RETURN LINES A/N: 344458 | D20 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E57.2 |
| System 4: RESIN/PLASTIC CURING OVEN | | | | | |
| OVEN, PLASTIC CURING OVEN, STEAM-HEATED A/N: 343782 | D56 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E71.1, E166.1 |

- * (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 AOC, LLC

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: STORAGE TANKS | | | | | |
| System 1: RESIN STORAGE | | | | | |
| STORAGE TANK, #1, RESIN, 17000 GALS A/N: 344460 | D22 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #2, RESIN, 17000 GALS A/N: 344463 | D23 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #3, RESIN, 17000 GALS A/N: 344467 | D24 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #4, RESIN, 15000 GALS A/N: 344470 | D25 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #5, RESIN, 15000 GALS A/N: 344473 | D26 | C38 | | ROG: 5.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #6, RESIN, 10000 GALS A/N: 344479 | D27 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #7, RESIN, 22000 GALS A/N: 344481 | D28 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #8, RESIN, 10000 GALS A/N: 344476 | D29 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #9, RESIN, 17000 GALS A/N: 344482 | D30 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #10, RESIN, 17000 GALS A/N: 344483 | D31 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| System 2: MISCELLANEOUS STORAGE | | | | | |

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



FACILITY PERMIT TO OPERATE AOC, LLC

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: STORAGE TANKS | | | | | |
| STORAGE TANK, #3, STYRENE, 17800 GALS; DIAMETER: 13 FT ; HEIGHT: 18 FT A/N: 451059 | D32 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #6, STYRENE, 17800 GALS; DIAMETER: 13 FT ; HEIGHT: 18 FT A/N: 451059 | D33 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, PHTHALIC ANHYDRIDE, 20000 GALS; DIAMETER: 13 FT ; HEIGHT: 20 FT A/N: 344485 | D34 | C35 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | C1.1, E1.1 |
| CONDENSER A/N: 344485 | C35 | D34 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | C8.1, D12.2, D12.4, D12.5, E179.1, E202.1, K67.2 |
| STORAGE TANK, JACKETED, MALEIC ANHYDRIDE, 17000 GALS; DIAMETER: 13 FT ; HEIGHT: 18 FT A/N: 344486 | D36 | | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E166.1 |
| STORAGE TANK, PROPANE, 30000 GALS; DIAMETER: 9 FT ; HEIGHT: 66 FT A/N: 344487 | D37 | | | | |
| STORAGE TANK, #10, RINSE, STYRENE, 5000 GALS; DIAMETER: 8 FT ; HEIGHT: 14 FT A/N: 459523 | D45 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 4-3-1992] | E57.1, E166.1 |
| Process 3: AIR POLLUTION CONTROL SYSTEM | | | | | |
| TANK, SURGE, WASTE, VAPOR, 12000 GALS; DIAMETER: 10 FT ; LENGTH: 25 FT A/N: 385252 | C39 | | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 4-3-1992] | |

- * (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 AOC, LLC

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 3: AIR POLLUTION CONTROL SYSTEM | | | | | |
| COLUMN, SECONDARY, HEIGHT: 20 FT 6 IN; DIAMETER: 3 FT WITH A/N: 385252 | C41 | | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | |
| KNOCK OUT POT, HEIGHT: 6 FT 3 IN; DIAMETER: 3 FT | C42 | | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | |
| AFTERBURNER, NATURAL GAS, 7.5 MMBTU/HR WITH A/N: 385252 | C38 | D1 D3 D7 D8 D9 D10 D11 D12 D13 D14 D15 D17 D18 D20 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D45 D56 | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012, 12-7-1995]; NOX: 64.1 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | A72.1, B75.1, C8.2, D12.1, D12.3, D28.1, D323.1, E168.1, E193.3 |
| BOILER, WASTE HEAT, 7.5 MMBTU/HR | D40 | | | | |
| Process 4: INTERNAL COMBUSTION | | | | | |
| System 1: EMERGENCY EQUIPMENT | | | | | |
| INTERNAL COMBUSTION ENGINE, EMERGENCY FIRE, DIESEL FUEL, DETROIT DIESEL CORPORATION, MODEL DDFP-L8FA, WITH AFTERCOOLER, TURBOCHARGER, 460 BHP A/N: 344489 | D49 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986] | B163.1, C1.2, C177.1, D12.6, D135.1, D323.1 |
| INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, DIESEL FUEL, CATERPILLAR, MODEL 3412 DITTA, WITH AFTERCOOLER, TURBOCHARGER, 746 BHP A/N: 365779 | D57 | | NOX: PROCESS UNIT** | NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986] | B163.1, C1.2, C177.1, D12.6, D135.1, D323.1 |

- * (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 AOC, LLC

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 5: Rule 219 Exempt Equipment Subject to Source-Specific Requirements | | | | | |
| System 1: RULE 219 EXEMPT EQUIPMENT | | | | | |
| RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS | E50 | | | ROG: (9) [RULE 1113, 6-3-2011; RULE 1171, 5-1-2009] | |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, PUMPS | E51 | | | ROG: (5) [RULE 1173, 2-6-2009; RULE 466, 10-7-1983] | H23.1 |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, COMPRESSORS | E52 | | | ROG: (5) [RULE 1173, 2-6-2009; RULE 466, 10-7-1983] | H23.1 |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, FLANGES | E53 | | | ROG: (5) [RULE 1173, 2-6-2009; RULE 466.1, 5-2-1980] | H23.1 |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, PRV | E54 | | | ROG: (5) [RULE 1173, 2-6-2009; RULE 466.1, 5-2-1980] | H23.1 |
| RULE 219 EXEMPT EQUIPMENT, FUGITIVE EMISSIONS, FITTINGS | E55 | | | ROG: (5) [RULE 1173, 2-6-2009] | H23.1 |

- | | |
|---|---|
| <p>* (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</p> | <p>(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</p> |
|---|---|

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



**FACILITY PERMIT TO OPERATE
AOC, LLC**

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
AOC, LLC**

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D1 | 1 | 1 | 1 |
| D2 | 1 | 1 | 1 |
| D3 | 1 | 1 | 1 |
| D4 | 1 | 1 | 1 |
| D7 | 2 | 1 | 1 |
| D8 | 2 | 1 | 1 |
| D9 | 2 | 1 | 1 |
| D10 | 2 | 1 | 1 |
| D11 | 2 | 1 | 1 |
| D12 | 2 | 1 | 1 |
| D13 | 2 | 1 | 1 |
| D14 | 3 | 1 | 1 |
| D15 | 3 | 1 | 1 |
| D17 | 3 | 1 | 1 |
| D18 | 3 | 1 | 1 |
| D19 | 3 | 1 | 2 |
| D20 | 3 | 1 | 3 |
| D22 | 4 | 2 | 1 |
| D23 | 4 | 2 | 1 |
| D24 | 4 | 2 | 1 |
| D25 | 4 | 2 | 1 |
| D26 | 4 | 2 | 1 |
| D27 | 4 | 2 | 1 |
| D28 | 4 | 2 | 1 |
| D29 | 4 | 2 | 1 |
| D30 | 4 | 2 | 1 |
| D31 | 4 | 2 | 1 |
| D32 | 5 | 2 | 2 |
| D33 | 5 | 2 | 2 |
| D34 | 5 | 2 | 2 |
| C35 | 5 | 2 | 2 |
| D36 | 5 | 2 | 2 |
| D37 | 5 | 2 | 2 |
| C38 | 6 | 3 | 0 |
| C39 | 5 | 3 | 0 |



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION D: DEVICE ID INDEX

| Device Index For Section D | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section D Page No. | Process | System |
| D40 | 6 | 3 | 0 |
| C41 | 6 | 3 | 0 |
| C42 | 6 | 3 | 0 |
| C43 | 1 | 1 | 1 |
| C44 | 1 | 1 | 1 |
| D45 | 5 | 2 | 2 |
| D46 | 3 | 1 | 1 |
| D49 | 6 | 4 | 1 |
| E50 | 7 | 5 | 1 |
| E51 | 7 | 5 | 1 |
| E52 | 7 | 5 | 1 |
| E53 | 7 | 5 | 1 |
| E54 | 7 | 5 | 1 |
| E55 | 7 | 5 | 1 |
| D56 | 3 | 1 | 4 |
| D57 | 6 | 4 | 1 |



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F9.1 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, 3-2-1984; RULE 401, 4-7-1989]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.5 percent by weight.

[RULE 431.2, 2-2-1979]

SYSTEM CONDITIONS

S1.1 The operator shall limit the production rate to no more than 7.26 million lb(s) in any one month.

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

[Systems subject to this condition : Process 1, System 1]

S20.1 For the purposes of determining compliance with District Rule 1141, VOC emissions shall be based on the combined emissions from all points of this system.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1141, 4-3-1992]

[Systems subject to this condition : Process 1, System 1]

DEVICE CONDITIONS

A. Emission Limits

A72.1 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 95 percent for ROG during the normal operation of the equipment it vents.

[RULE 1141, 11-17-2000]

[Devices subject to this condition : C38]

B. Material/Fuel Type Limits

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

Materials in powder form.

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

[Devices subject to this condition : D46]

B75.1 The operator shall not use propane in this equipment except under the following circumstance(s):



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Natural gas curtailment

Compliance testing

Maintenance testing

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

[Devices subject to this condition : D1, D3, C38]

B163.1 The operator shall not use diesel fuel containing the following:

Sulfur content in excess of 0.05 percent by weight

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D49, D57]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the loading rate to no more than 85 gallons per minute.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 402, 5-7-1976]

[Devices subject to this condition : D34]

C1.2 The operator shall limit the operating time to no more than 199 hour(s) in any one year.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

**[RULE 1110.2, 7-9-2010; RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;
RULE 2012, 12-7-1995]**

[Devices subject to this condition : D49, D57]

- C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 1 gpm.

To comply with this condition, the operator shall monitor the flow rate as specified in condition number 12-2.

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

[Devices subject to this condition : C35]

- C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1450 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number 12-3.

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

[Devices subject to this condition : C38]

- C177.1 The operator shall set and maintain the fuel injection timing of the engine at 4 degrees retarded relative to standard timing.

[RULE 1110.2, 7-9-2010; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D49, D57]



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) gauge to accurately indicate the oxygen concentration in the afterburner.

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

[Devices subject to this condition : C38]

D12.2 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the cooling water of the vapor condenser.

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

[Devices subject to this condition : C35]

D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the afterburner.

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, 8-11-1995]

[Devices subject to this condition : C38]

D12.4 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the cooling water at the inlet.

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



FACILITY PERMIT TO OPERATE AOC, LLC

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 : C35]

- D12.5 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature of the cooling water at the outlet.

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

[Devices subject to this condition : C35]

- 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 1110.2, 7-9-2010; RULE 1304(e), 6-14-1996; RULE 2012, 12-7-1995**]

[Devices subject to this condition : D49, D57]

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

The test shall be conducted to determine the ROG emissions using District method 25.1 measured over a 60 minute averaging time period.

The test shall be conducted to determine the ROG emissions at the inlet and outlet simultaneously.

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

[Devices subject to this condition : C38]

- D135.1 The operator shall inspect, adjust, and certify the ignition or fuel injection timing of this engine a minimum of once every 3 years of operation. Inspections, adjustments, and certifications shall be performed by a qualified mechanic and performed in accordance with the engine manufacturer's specifications and procedures.



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 2012, 12-7-1995]

[Devices subject to this condition : D49, D57]



FACILITY PERMIT TO OPERATE AOC, LLC

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.
In addition, the operator shall 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 72 hours of conversion to fuel oil firing and on a weekly basis thereafter, until the equipment stops firing fuel oil.

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
-



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

- 4). All visible emission observation records by operator or a certified smoke reader.

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

[Devices subject to this condition : D1, D3, D9, D10, D11, D12, D13, D14, D15, C38, D49, D57]

E. Equipment Operation/Construction Requirements

- E1.1 The operator shall vent the emissions from this equipment to only one of the devices identified in the "connected to" column of this facility permit at any given time.

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

[Devices subject to this condition : D1, D3, D7, D8, D9, D10, D11, D12, D13, D14, D15, D17, D18, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34]

- E57.1 The operator shall vent this equipment to C38 whenever this tank is being filled with styrene.

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

[Devices subject to this condition : D45]

- E57.2 The operator shall vent this equipment to a vapor recovery system or air pollution control system operating with a valid permit from the SCAQMD whenever the equipment is operating.

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



FACILITY PERMIT TO OPERATE AOC, LLC

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 : D20]

- E71.1 The operator shall not operate this equipment unless the equipment is vented to vapor control system which has a valid operating permit from AQMD and it is in full use and operating.

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

[Devices subject to this condition : D56]

- E166.1 The operator shall keep all openings from this equipment closed when in use except during inspection, sampling or maintenance.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 402, 5-7-1976]

[Devices subject to this condition : D9, D10, D11, D12, D13, D14, D15, D19, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D36, D45, D46, D56]

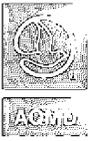
- E168.1 The following condition number(s) applies if the total emissions of volatile organic compounds (VOC) from the organic resin reactors, thinning tanks and blending tanks, before being vented to the atmosphere are not reduced to 0.5 pound per 1000 pounds of completed resin produced.

Condition Number A 72- 1

[RULE 1141, 4-3-1992; RULE 1141, 11-17-2000]

[Devices subject to this condition : C38]

- E179.1 For the purpose of the following condition number(s), clean and maintain shall be defined as steamed out.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

Condition Number E 202- 1

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 402, 5-7-1976]

[Devices subject to this condition : C35]

E193.3 The operator shall operate and maintain this equipment as follows:



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The operator shall operate and maintain this equipment according to the following requirements:

The combustion chamber temperature shall be maintained at a minimum of 1,450 degrees Fahrenheit whenever the equipment it serves is in operation.

The operator shall operate and maintain a temperature measuring and recording system to continuously measure and record the combustion chamber temperature pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable AQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a combustion chamber temperature of less than 1,450 degrees Fahrenheit occurs during normal operation of the equipment it serves. The operator shall review the records of the combustion chamber temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs.

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the combustion chamber temperature at or above 1,450 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to the AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if an accumulation of deviations



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

**[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)
(4)-Periodic Monitoring, 12-12-1997; 40CFR Part 64, 10-22-1997]**

[Devices subject to this condition : C38]

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

Immediately before and after each filling operation.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 402, 5-7-1976]

[Devices subject to this condition : C35]

H. Applicable Rules

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

| Contaminant | Rule | Rule/Subpart |
|-------------|------|--------------|
| | | |



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

VOC | District Rule | 1173

[**RULE 1173, 5-13-1994**; RULE 1173, 2-6-2009]

[Devices subject to this condition : E51, E52, E53, E54, E55]

K. Record Keeping/Reporting

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

Daily record of inlet and outlet temperatures of cooling water

Daily record of flow rate of cooling water to the condenser

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

[Devices subject to this condition : C35]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions 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 and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]
 - a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes. [204]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION E: ADMINISTRATIVE CONDITIONS

- e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compound which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
- f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
- g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulation, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]
9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
- a. The results of the source test.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.



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SECTION E: ADMINISTRATIVE CONDITIONS

- f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
- 11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
- 12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NOx large Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

II. NOx Source Testing and Tune-up conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]



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SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

2. The operator shall, as applicable, conduct source tests for every large NO_x source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NO_x concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]

3. All NO_x large sources and NO_x process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]



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SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
 - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
 - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
 - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NO_x or SO_x emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NO_x Reporting Requirements

- A. The Operator of a NO_x Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable



**FACILITY PERMIT TO OPERATE
AOC, LLC**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

B. The Operator of a NO_x Large Source, as defined in Rule 2012, shall:

Not Applicable

C. The Operator of a NO_x Process Unit, as defined in Rule 2012, shall:

1. Electronically report the calculated quarterly NO_x emissions for each NO_x process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: POLYESTER MANUFACTURING | | | | | |
| System 1: POLYESTER REACTION, MIXING STORAGE AND PACKAGING | | | | | S1.1, S20.1 |
| REACTOR, R1, 3000 GALLON CAPACITY, HEIGHT: 6 FT 9 IN; DIAMETER: 8 FT WITH A/N: 501157 Permit to Construct Issued: 11/04/10 | D1 | C38 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E71.1, E71.2 |
| FURNACE, NATURAL GAS, 3.288 MMBTU/HR | D2 | | NOX: PROCESS UNIT** | CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012, 12-7-1995]; NOX: 57.69 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | B75.1, D323.1 |
| CONDENSER, REFLUX COLUMN | C43 | | | | |

* (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 AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: POLYESTER MANUFACTURING | | | | | |
| REACTOR, R2, 4300 GALLON CAPACITY, HEIGHT: 8 FT 4 IN; DIAMETER: 9 FT WITH A/N: 501157 Permit to Construct Issued: 11/04/10 FURNACE, NATURAL GAS, 4 MMBTU/HR | D3 | C38 | NOX: PROCESS UNIT** | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 12.8 LBS/1000 GAL PROPANE (1) [RULE 2012, 12-7-1995]; NOX: 57.69 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 12-7-1995]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981] | E71.1, E71.2 B75.1, D323.1 |
| CONDENSER, REFLUX COLUMN | C44 | | | | |
| TANK, HOLDING, TT1, THINNING, JACKETED, WITH CONDENSER, HEIGHT: 13 FT 4 IN; DIAMETER: 8 FT 8 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D7 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| TANK, HOLDING, TT2, THINNING, JACKETED, WITH CONDENSER, HEIGHT: 14 FT 9 IN; DIAMETER: 9 FT 6 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D8 | C58 | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 | |

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|--|---|
| * (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 AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: POLYESTER MANUFACTURING | | | | | |
| MIXER, TANK MT7, POLYESTER RESIN, JACKETED, WITH CONDENSER, HEIGHT: 12 FT 6 IN; DIAMETER: 9 FT 6 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D9 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT1, HEIGHT: 6 FT ; DIAMETER: 10 FT A/N: 501157 Permit to Construct Issued: 11/04/10 | D10 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT2, HEIGHT: 8 FT ; DIAMETER: 10 FT A/N: 501157 Permit to Construct Issued: 11/04/10 | D11 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT3, HEIGHT: 11 FT 2 IN; DIAMETER: 6 FT A/N: 501157 Permit to Construct Issued: 11/04/10 | D12 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT4, HEIGHT: 11 FT ; DIAMETER: 10 FT A/N: 501157 Permit to Construct Issued: 11/04/10 | D13 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT5, HEIGHT: 12 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D14 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| MIXER, TANK MT6, HEIGHT: 12 FT 6 IN; DIAMETER: 12 FT 6 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D15 | C58 | | PM: (9) [RULE 405, 2-7-1986]; ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | D323.1, E1.1, E166.1 |
| PACKAGING MACHINE, DRUM FILLING STATION A/N: 501157 Permit to Construct Issued: 11/04/10 | D17 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |

- * (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 AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: POLYESTER MANUFACTURING | | | | | |
| PACKAGING MACHINE, DRUM FILLING STATION A/N: 501157 Permit to Construct Issued: 11/04/10 | D18 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1 |
| TANK, PROMOTER, 282 GALS; DIAMETER: 4 FT ; HEIGHT: 2 FT 11 IN A/N: 501157 Permit to Construct Issued: 11/04/10 | D46 | C58 | | | B59.1, E166.1 |
| System 2: SAMPLE MIXING | | | | | |
| MIXER, SAMPLE, 200 GALS; DIAMETER: 4 FT ; HEIGHT: 3 FT 6 IN A/N: 501142 Permit to Construct Issued: 11/04/10 | D19 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E166.1 |
| System 3: MATERIAL HANDLING | | | | | |
| BULK MATERIAL LOADING STATION, TANK TRUCK, WITH VAPOR RETURN LINES A/N: 501143 Permit to Construct Issued: 11/04/10 | D20 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E57.2 |
| Process 2: STORAGE TANKS | | | | | |
| System 1: RESIN STORAGE | | | | | |
| STORAGE TANK, #1, RESIN, 17000 GALS A/N: 501144 Permit to Construct Issued: 11/04/10 | D22 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #2, RESIN, 17000 GALS A/N: 501148 Permit to Construct Issued: 11/04/10 | D23 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |

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| * (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
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: STORAGE TANKS | | | | | |
| STORAGE TANK, #3, RESIN, 17000 GALS A/N: 501146 Permit to Construct Issued: 11/04/10 | D24 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #4, RESIN, 15000 GALS A/N: 501146 Permit to Construct Issued: 11/04/10 | D25 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #5, RESIN, 15000 GALS A/N: 501147 Permit to Construct Issued: 11/04/10 | D26 | C58 | | ROG: 5.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #6, RESIN, 10000 GALS A/N: 501149 Permit to Construct Issued: 11/04/10 | D27 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #7, RESIN, 22000 GALS A/N: 501150 Permit to Construct Issued: 11/04/10 | D28 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #8, RESIN, 10000 GALS A/N: 501151 Permit to Construct Issued: 11/04/10 | D29 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #9, RESIN, 17000 GALS A/N: 501153 Permit to Construct Issued: 11/04/10 | D30 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #10, RESIN, 17000 GALS A/N: 501154 Permit to Construct Issued: 11/04/10 | D31 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| System 2: MISCELLANEOUS STORAGE | | | | | |

- * (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
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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: STORAGE TANKS | | | | | |
| STORAGE TANK, #3, STYRENE, 17800 GALS; DIAMETER: 13 FT ; HEIGHT: 18 FT A/N: 501155 Permit to Construct Issued: 11/04/10 | D32 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, #6, STYRENE, 17800 GALS; DIAMETER: 13 FT ; HEIGHT: 18 FT A/N: 501155 Permit to Construct Issued: 11/04/10 | D33 | C58 | | ROG: 0.5 LBS/1000 LBS PRODUCED RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, RINSE, STYRENE, 5000 GALS; DIAMETER: 8 FT ; HEIGHT: 14 FT A/N: 501156 Permit to Construct Issued: 11/04/10 | D45 | C58 | | ROG: 0.5 LB(S)/1000 LBS RESIN (5) [RULE 1141, 11-17-2000] | E1.1, E166.1 |
| STORAGE TANK, NO. 1, DCPD A/N: 501160 Permit to Construct Issued: 11/04/10 | D60 | C62 | | | |
| STORAGE TANK, NO. 2, DCPD A/N: 501160 Permit to Construct Issued: 11/04/10 | D61 | C62 | | | |
| CARBON ADSORBER, TWO VESSELS CONSTRUCTED IN SERIES, EACH WITH 150 LBS OF ACTIVATED CARBON A/N: 501160 Permit to Construct Issued: 11/04/10 | C62 | D60 D61 | | | C6.1, D90.2, E153.2 |
| Process 3: AIR POLLUTION CONTROL SYSTEM | | | | | |
| TANK, SURGE, WASTE, VAPOR, 12000 GALS; DIAMETER: 10 FT ; LENGTH: 25 FT A/N: 501158 Permit to Construct Issued: 11/04/10 | C39 | | | | |

- * (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
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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 3: AIR POLLUTION CONTROL SYSTEM | | | | | |
| COLUMN, SECONDARY, HEIGHT: 20 FT 6 IN; DIAMETER: 3 FT WITH A/N: 501158 Permit to Construct Issued: 11/04/10 | C41 | | | | |
| KNOCK OUT POT, HEIGHT: 6 FT 3 IN; DIAMETER: 3 FT | C42 | | | | |
| AFTERBURNER, NATURAL GAS, 7.5 MMBTU/HR WITH A/N: 501158 Permit to Construct Issued: 11/04/10 | C38 | D1 D3 | NOX: PROCESS UNIT** | NOX: 130 LBS/MMSCF NATURAL GAS (1) | A72.2, B75.1, C8.2, D12.1, D12.3, D28.1, D323.1, E193.1, E193.3 |
| BOILER, WASTE HEAT, 7.5 MMBTU/HR | D40 | | | | |
| CARBON ADSORBER, THREE VESSELS CONSTRUCTED IN SERIES, EACH WITH 8000 LBS OF ACTIVATED CARBON WITH A/N: 501159 Permit to Construct Issued: 11/04/10 | C58 | D7 D8 D9 D10 D11 D12 D13 D14 D15 D17 D18 D19 D20 D22 D23 D24 D25 D26 D27 D28 D29 D30 D31 D32 D33 D45 D46 | | | C1.3, C6.1, D12.7, D28.2, D90.1, E153.1, E193.2, E193.4 |
| BLOWER, 4800 SCFM | | | | | |

* (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
AOC, LLC**

SECTION H: 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
AOC, LLC**

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|----------------------------|--------------------|---------|--------|
| Device ID | Section H Page No. | Process | System |
| D1 | 1 | 1 | 1 |
| D2 | 1 | 1 | 1 |
| D3 | 2 | 1 | 1 |
| D4 | 2 | 1 | 1 |
| D7 | 2 | 1 | 1 |
| D8 | 2 | 1 | 1 |
| D9 | 3 | 1 | 1 |
| D10 | 3 | 1 | 1 |
| D11 | 3 | 1 | 1 |
| D12 | 3 | 1 | 1 |
| D13 | 3 | 1 | 1 |
| D14 | 3 | 1 | 1 |
| D15 | 3 | 1 | 1 |
| D17 | 3 | 1 | 1 |
| D18 | 4 | 1 | 1 |
| D19 | 4 | 1 | 2 |
| D20 | 4 | 1 | 3 |
| D22 | 4 | 2 | 1 |
| D23 | 4 | 2 | 1 |
| D24 | 5 | 2 | 1 |
| D25 | 5 | 2 | 1 |
| D26 | 5 | 2 | 1 |
| D27 | 5 | 2 | 1 |
| D28 | 5 | 2 | 1 |
| D29 | 5 | 2 | 1 |
| D30 | 5 | 2 | 1 |
| D31 | 5 | 2 | 1 |
| D32 | 6 | 2 | 2 |
| D33 | 6 | 2 | 2 |
| C38 | 7 | 3 | 0 |
| C39 | 6 | 3 | 0 |
| D40 | 7 | 3 | 0 |
| C41 | 7 | 3 | 0 |
| C42 | 7 | 3 | 0 |



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION H: DEVICE ID INDEX

| Device Index For Section H | | | |
|-----------------------------------|---------------------------|----------------|---------------|
| Device ID | Section H Page No. | Process | System |
| C43 | 1 | 1 | 1 |
| C44 | 2 | 1 | 1 |
| D45 | 6 | 2 | 2 |
| D46 | 4 | 1 | 1 |
| C58 | 7 | 3 | 0 |
| D60 | 6 | 2 | 2 |
| D61 | 6 | 2 | 2 |
| C62 | 6 | 2 | 2 |



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

FACILITY CONDITIONS

F9.1 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, 3-2-1984; RULE 401, 4-7-1989]

F14.1 The operator shall not use fuel oil containing sulfur compounds in excess of 0.5 percent by weight.

[RULE 431.2, 2-2-1979]

SYSTEM CONDITIONS

S1.1 The operator shall limit the production rate to no more than 7.26 million lb(s) in any one month.

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

[Systems subject to this condition : Process 1, System 1]

S20.1 For the purposes of determining compliance with District Rule 1141, VOC emissions shall be based on the combined emissions from all points of this system.

[RULE 1141, 4-3-1992]

[Systems subject to this condition : Process 1, System 1]



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

DEVICE CONDITIONS

A. Emission Limits

A72.2 The operator shall maintain this equipment to achieve a minimum destruction efficiency of 98.8 percent for ROG during the normal operation of the equipment it vents.

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

[Devices subject to this condition : C38]

B. Material/Fuel Type Limits

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

Materials in powder form.

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

[Devices subject to this condition : D46]

B75.1 The operator shall not use propane in this equipment except under the following circumstance(s):

Natural gas curtailment

Compliance testing

Maintenance testing

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

[Devices subject to this condition : D1, D3, C38]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

C. Throughput or Operating Parameter Limits

C1.3 The operator shall limit the exhaust flow to no more than 4800 cubic feet per minute.

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

[Devices subject to this condition : C58]

C6.1 The operator shall use this equipment in such a manner that the organic vapor concentration being monitored, as indicated below, does not exceed 8 ppm.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C58, C62]

C8.2 The operator shall use this equipment in such a manner that the temperature being monitored, as indicated below, is not less than 1450 Deg F.

To comply with this condition, the operator shall monitor the temperature as specified in condition number 12-3.

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

[Devices subject to this condition : C38]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) gauge to accurately indicate the oxygen concentration in the afterburner.

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

[Devices subject to this condition : C38]

D12.3 The operator shall install and maintain a(n) temperature gauge to accurately indicate the temperature in the afterburner.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

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, 8-11-1995]

[Devices subject to this condition : C38]

D12.7 The operator shall install and maintain a(n) flow meter to accurately indicate the flow rate of the total vent air to this system.

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

[Devices subject to this condition : C58]

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

The test shall be conducted to determine the ROG emissions using District method 25.1 measured over a 60 minute averaging time period.

The test shall be conducted to determine the ROG emissions at the inlet and outlet simultaneously.

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

[Devices subject to this condition : C38]

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



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The test shall be conducted to determine the VOC emissions at the inlet and outlet.

The test shall be conducted within 90 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 demonstrate compliance with VOC emission concentrations.

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

[Devices subject to this condition : C58]

D90.1 The operator shall periodically monitor the VOC concentrations at outlet of the second and third carbon vessels according to the following specifications:

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

The operator shall monitor once every day.

The monitoring device shall have a detection range to accurately measure 8 ppmv methane and have an accuracy of 98% or better of the device monitoring range, and it shall be calibrated once a week.

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

[Devices subject to this condition : C58]

D90.2 The operator shall periodically monitor the VOC concentrations at outlet of first and second carbon vessels according to the following specifications:



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall calibrate the instrument used to monitor the parameter in ppmv methane.

The operator shall monitor once every week.

The monitoring device shall have a detection range to accurately measure 8 ppmv methane and have an accuracy of 98% or better of the device monitoring range, and it shall be calibrated once a week.

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

[Devices subject to this condition : C62]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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.
In addition, the operator shall 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 72 hours of conversion to fuel oil firing and on a weekly basis thereafter, until the equipment stops firing fuel oil.

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
-



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

- 4). All visible emission observation records by operator or a certified smoke reader.

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

[Devices subject to this condition : D1, D3, D9, D10, D11, D12, D13, D14, D15, C38]

E. Equipment Operation/Construction Requirements

- E1.1 The operator shall vent the emissions from this equipment to only one of the devices identified in the "connected to" column of this facility permit at any given time.

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

[Devices subject to this condition : D7, D8, D9, D10, D11, D12, D13, D14, D15, D17, D18, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D45]

- E57.2 The operator shall vent this equipment to a vapor recovery system or air pollution control system operating with a valid permit from the SCAQMD whenever the equipment is operating.

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

[Devices subject to this condition : D20]

- E71.1 The operator shall not operate this equipment unless the equipment is vented to vapor control system which has a valid operating permit from AQMD and it is in full use and operating.

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

[Devices subject to this condition : D1, D3]

- E71.2 The operator shall not allow vapor to escape from this equipment when the equipment is not operating. All the opening to the equipment, including vent pipes, shall be closed, except during the equipment maintenance activities.

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



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : D1, D3]

E153.1 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as when VOC monitoring indicates a concentration of 8.0 ppmv or greater at the outlet of the second or third carbon vessels (first carbon vessel is the upstream carbon vessel, second carbon vessel is the mid vessel, and third carbon vessel is last vessel in series).

To change over carbon, the operator shall replace spent carbon with fresh carbon in the first vessel within 72 hours after breakthrough was detected at the outlet of second or third carbon vessels. And the vapor flow shall be reconfigured such that the vessel with fresh carbon is the last (third vessel) in series.

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

[Devices subject to this condition : C58]

E153.2 The operator shall change over the carbon in the adsorber whenever breakthrough occurs.

For the purpose of this condition, breakthrough shall be defined as when VOC monitoring indicates a concentration of 8.0 ppmv or greater at the outlet of first carbon vessel (first carbon vessel is the upstream carbon vessel).

To change over carbon, the operator shall replace spent carbon with fresh carbon in the first vessel within 72 hours after breakthrough was detected at the outlet of first carbon vessel. And the vapor flow shall be reconfigured such that the vessel with fresh carbon is the last (second vessel) in series.

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

[Devices subject to this condition : C62]

E166.1 The operator shall keep all openings from this equipment closed when in use except during inspection, sampling or maintenance.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 402, 5-7-1976]

[Devices subject to this condition : D9, D10, D11, D12, D13, D14, D15, D19, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D45, D46]

E193.1 The operator shall operate and maintain this equipment according to the following requirements:

The afterburner shall be operating in compliance with the permit requirements when any of the devices that are connected to it is operating.

The operator shall maintain records in a manner approved by the AQMD to demonstrate compliance with this condition.

At minimum, the records shall include the date, the duration, and the reason for the equipment downtime.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C38]

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

The equipment shall be kept connected to the devices it vents and operating at all times except as noted below.

During exhaust blower downtime, the devices connected to this equipment shall be passively vented to the equipment until the blower is replaced or repaired.

During maintenance activities for tank or vent pipes, tanks or vent pipes being serviced shall be isolated while the remaining tanks are being vented to the carbon system. During such maintenance activities there shall be no material transfer into tank(s) being serviced.

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



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

[Devices subject to this condition : C58]

E193.3 The operator shall operate and maintain this equipment as follows:



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall operate and maintain this equipment according to the following requirements:

The combustion chamber temperature shall be maintained at a minimum of 1,450 degrees Fahrenheit whenever the equipment it serves is in operation.

The operator shall operate and maintain a temperature measuring and recording system to continuously measure and record the combustion chamber temperature pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a system shall have an accuracy of within 1% of the temperature being monitored and shall be inspected, maintained, and calibrated on an annual basis in accordance with the manufacturer's specifications using an applicable AQMD or EPA approved method.

For the purpose of this condition, a deviation shall be defined as when a combustion chamber temperature of less than 1,450 degrees Fahrenheit occurs during normal operation of the equipment it serves. The operator shall review the records of the combustion chamber temperature on a daily basis to determine if a deviation occurs or shall install an alarm system to alert the operator when a deviation occurs.

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the combustion chamber temperature at or above 1,450 degrees Fahrenheit, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective action taken.

All deviations shall be reported to the AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if an accumulation of deviations



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

exceeds 5 percent duration of this equipment's total operating time for any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

[RULE 1303(a)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C38]

E193.4 The operator shall upon completion of construction, operate and maintain this equipment as follows:



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

The operator shall operate and maintain this equipment according to the following requirements:

The operator shall utilize and maintain a monitoring equipment to measure VOC in ppmv as methane at the carbon beds outlets pursuant to the operation and maintenance requirements specified in 40 CFR Part 64.7. Such a monitoring equipment shall be inspected, maintained, and calibrated for drift using two calibration gases at zero and approximately 50% of the span range in ppmv as methane on a weekly basis in accordance with the manufacturer's specifications consistent with 40 CFR 60 Appendix B Performance S

The operator shall shut down this equipment when the concentration of VOC at the outlet of second carbon bed exceeds 10 ppmv as methane.

For the purpose of this condition, a deviation shall be defined as when the average concentration of VOC (three readings in 3 hours of operation) at the outlet of the second carbon bed exceeds 10 ppmv as methane during the normal operation of the equipment.

All deviations shall be reported to the AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit.

The operator shall submit an application with a Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if more than six deviations occur in any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.



**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE
3004(c)-Permit Shield, 12-12-1997; 40CFR Part 64, 10-22-1997]**

[Devices subject to this condition : C58]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.



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

| | |
|--------------|-------------------|
| Section J | Page: 1 |
| Facility ID: | 117140 |
| Revision #: | 3 |
| Date: | November 18, 2011 |

**FACILITY PERMIT TO OPERATE
AOC, LLC**

SECTION J: AIR TOXICS

NOT APPLICABLE



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]
-



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

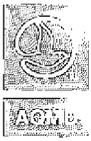
13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



FACILITY PERMIT TO OPERATE AOC, LLC

SECTION K: TITLE V Administration

RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.