



Section I – South Coast AQMD LAER/BACT Determination

Source Type: **Major/LAER**
 Application No.: **557373, 563695, 556097, and 555096**
 Equipment Category: **Flow Coater with Regenerative Thermal Oxidizer**
 Equipment Subcategory: **Paper and Film**
 Date: **September 2, 2022**

1. EQUIPMENT INFORMATION

| | | |
|---|-----------------------|--------------------|
| A. MANUFACTURER: Faustel | B. MODEL: N/A | |
| C. DESCRIPTION: Arlon produces adhesive and decorative films. All four production lines are vented along with their mixing rooms to a regenerative thermal oxidizer (RTO) to control emissions of VOC. Four permanent total enclosures (PTEs), one around each coating head, are vented to the RTO. | | |
| D. FUNCTION: Casting of paper and vinyl film and application of an adhesive on to the film | | |
| E. SIZE/DIMENSIONS/CAPACITY: N/A | | |
| COMBUSTION SOURCES | | |
| F. MAXIMUM HEAT INPUT: N/A | | |
| G. BURNER INFORMATION | | |
| TYPE | INDIVIDUAL HEAT INPUT | NUMBER |
| N/A | N/A | N/A |
| H. PRIMARY FUEL: N/A | | I. OTHER FUEL: N/A |
| J. OPERATING SCHEDULE: 24 HRS/DAY 7 DAYS/WEEK 52 WKS/YR | | |
| K. EQUIPMENT COST: N/A | | |
| L. EQUIPMENT INFORMATION COMMENTS: Knife-over-roll type | | |

2. COMPANY INFORMATION

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|---|--------------------------------|
| A. COMPANY: Arlon Graphics LLC | B. FAC ID: 174406 |
| C. ADDRESS: 200 Boysenberry Lane CITY: Placentia STATE: CA ZIP:92870 | D. NAICS CODE: 322222 |
| E. CONTACT PERSON: Robert Nicholson | F. TITLE: Engineering Manager |
| G. PHONE NO.: 714-431-4221 | H. EMAIL: rnicholson@arlon.com |

3. PERMIT INFORMATION

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|--|-----------------------------|
| A. AGENCY: South Coast AQMD | B. APPLICATION TYPE: OTHER |
| C. SCAQMD ENGINEER: Jeanne Pendes Villacorte | |
| D. PERMIT INFORMATION: | PC ISSUANCE DATE: 1/7/15 |
| P/O NO.: G51869 | PO ISSUANCE DATE: 12/2/2016 |
| E. START-UP DATE: 2016 | |
| F. OPERATIONAL TIME: 6 years | |

4. EMISSION INFORMATION

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|--|-----|-----|-----|----|------------------------|-----------|
| A. BACT EMISSION LIMITS AND AVERAGING TIMES: | | | | | | |
| | VOC | NOX | SOX | CO | PM OR PM ₁₀ | INORGANIC |
| BACT Limit | | | | | | |
| Averaging Time | | | | | | |
| Correction | | | | | | |
| B. OTHER BACT REQUIREMENTS: N/A | | | | | | |
| C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology | | | | | | |
| D. EMISSION INFORMATION COMMENTS: N/A | | | | | | |

5. CONTROL TECHNOLOGY

| A. MANUFACTURER: Adwest Technologies, Inc. | | B. MODEL: 50.0 RTO-97 | |
|--|----------------------------|---------------------------|-----------------------|
| C. DESCRIPTION: Regenerative thermal oxidizer with a Maxon low-NOx burner | | | |
| D. SIZE/DIMENSIONS/CAPACITY: 14.45 MMBtu/hr low-NOx natural gas burner | | | |
| E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. 587507 PC ISSUANCE DATE: Click here to enter a date. PO NO.: G51846 PO ISSUANCE DATE: 4/18/2018 | | | |
| F. REQUIRED CONTROL EFFICIENCIES: Minimum efficiencies of the system control equipment as required by permit, or the most stringent rule requirement. The control or destruction efficiency is determined across the control device (e.g. inlet-outlet). Collection or capture efficiency is based at each point of contaminant collection in the system. Enter each contaminant that applies. Add rows as needed. | | | |
| CONTAMINANT | OVERALL CONTROL EFFICIENCY | CONTROL DEVICE EFFICIENCY | COLLECTION EFFICIENCY |
| VOC | 97% | ___% | ___% |
| NOx | ___% | ___% | ___% |
| SOx | ___% | ___% | ___% |
| CO | ___% | ___% | ___% |
| PM | ___% | ___% | ___% |
| PM ₁₀ | ___% | ___% | ___% |
| INORGANIC | ___% | ___% | ___% |
| G. CONTROL TECHNOLOGY COMMENTS : The operation of the RTO to control VOC emissions is in compliance with requirements of South Coast AQMD Rules 1128 and 1171. The RTO burner is only used to pre-heat the ceramic beds to establish an initial temperature of 1500F. | | | |

6. DEMONSTRATION OF COMPLIANCE

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| A. COMPLIANCE DEMONSTRATED BY: Source Test |
| B. DATE(S) OF SOURCE TEST: April 20, 2016 |
| C. COLLECTION EFFICIENCY METHOD: The VOC destruction efficiency was determined at the inlet and outlet of the RTO, simultaneously, by SCAQMD Methods 25.1/25.3. The enclosures were certified as PTEs for 100% capture of the VOC by EPA Method 204. |
| D. COLLECTION EFFICIENCY PARAMETERS: See Part C |
| E. SOURCE TEST/PERFORMANCE DATA: VOC destruction efficiency for the oxidizer is 98.9%. Use of PTEs yielded a collection efficiency of 100% and therefore the overall control efficiency is 98.9%. |

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| F. TEST OPERATING PARAMETERS AND CONDITIONS: List any important operating conditions maintained during the source test or normal operations. Examples include, but may not be limited to, pressure differentials across control devices, feed rates, firing rates, temperatures, flow rates, or other parameters used to evaluate the level of operation of the equipment during the test or operations that may affect emissions from the equipment. |
| G. TEST METHODS (SPECIFY AGENCY): South Coast AQMD Methods 25.1/25.3 |
| J. MONITORING AND TESTING REQUIREMENTS: Source test was conducted with all four coating lines operating. |
| I. DEMONSTRATION OF COMPLIANCE COMMENTS: The permit requires source testing on the RTO to verify that the overall control efficiency is a minimum of 97%. |

7. ADDITIONAL SCAQMD REFERENCE DATA

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| A. BCAT: 000211 | B. CCAT: N/A | C. APPLICATION TYPE CODE: 60 | |
| D. RECLAIM FAC? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | E. TITLE V FAC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | F. SOURCE TEST ID(S): PR15245A | |
| G. SCAQMD SOURCE SPECIFIC RULES: Click here to enter text. | | | |
| H. HEALTH RISK FOR PERMIT UNIT | | | |
| H1. MICR: Click here to enter text. | H2. MICR DATE: Click here to enter a date. | H3. CANCER BURDEN: Click here to enter text. | H4. CB DATE: Click here to enter a date. |
| H5: HIA: Click here to enter text. | H6. HIA DATE: Click here to enter a date. | H7. HIC: Click here to enter text. | H8. HIC DATE: Click here to enter a date. |