



Section I – South Coast AQMD BACT/LAER Determination

Source Type: **Major/LAER**
 Application No.: **602295**
 Equipment Category: **Thermal Oxidizer**
 Equipment Subcategory: **Regenerative**
 Date: **February 5, 2021**

1. EQUIPMENT INFORMATION

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| A. MANUFACTURER: TANN | | B. MODEL: TR3092 | |
| C. DESCRIPTION: Regenerative Thermal Oxidizer (RTO) controlling VOC emissions. | | | |
| D. FUNCTION: Steelscape is a supplier of metallic-coated and pre-painted steel, servicing the construction industry. Steelscape conducts metal coil coatings operations at the facility. Steelscape owns and operates an RTO. The prime and finish coating heads are housed in separate rooms that were prepared as PTE's and vented indirectly to the RTO. | | | |
| E. SIZE/DIMENSIONS/CAPACITY: 42' W x 23'-6" L, Dual Ceramic Heat Exchanger Media and 25 HP combustion air blower. | | | |
| COMBUSTION SOURCES | | | |
| F. MAXIMUM HEAT INPUT: 9.8 MM Btu/hr start-up natural gas injection system | | | |
| G. BURNER INFORMATION: Low-NO _x | | | |
| TYPE | | INDIVIDUAL HEAT INPUT | NUMBER |
| MAXON, Kinedizer LE | | 9.8 MM Btu/hr | one |
| Enter additional burner types, as needed, add extra rows | | | |
| H. PRIMARY FUEL: NATURAL GAS | | I. OTHER FUEL: N/A | |
| J. OPERATING SCHEDULE: Hours 24 Days 7 Weeks 52 | | | |
| K. EQUIPMENT COST: N/A | | | |
| L. EQUIPMENT INFORMATION COMMENTS: Exhaust system consisting of one 400 hp exhaust blower. | | | |

2. COMPANY INFORMATION

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| A. COMPANY: Steelscape Inc. | | B. FAC ID: 126498 | |
| C. ADDRESS: 11200 Arrow Hwy CITY: Rancho Cucamonga STATE: CA ZIP: 91730 | | D. NAICS CODE: 3479 | |
| E. CONTACT PERSON: Frank Ramos | | F. TITLE: EHS Coordinator | |
| G. PHONE NO.: (909) 484-4653 | | H. EMAIL: Francisco.Ramos@steelscape.com | |

3. PERMIT INFORMATION

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| A. AGENCY: South Coast AQMD | B. APPLICATION TYPE: NEW CONSTRUCTION |
| C. SCAQMD ENGINEER: Hemang Desai | |
| D. PERMIT INFORMATION: PC ISSUANCE DATE: 10/30/18 P/O NO.: Click here to enter text PO ISSUANCE DATE: 2/27/2020 | |
| E. START-UP DATE: Select date from pull down. The start-up date is the first date that the equipment operates for any reason. Use the best estimate at the PC stage and actual date at the PO stage. | |
| F. OPERATIONAL TIME: 6+ months | |

4. EMISSION INFORMATION

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| A. BACT EMISSION LIMITS AND AVERAGING TIMES: List all criteria contaminant or precursor emission limits, including facility limits, on the permit(s) that affects the equipment. Include units, averaging times and corrections (%O ₂ , %CO ₂ , dry, etc). For VOC, values must include if the concentration is reported as methane, hexane or any other compound. VOC mass emissions should include the molecular weight-to-carbon ratio, if applicable. | | | | | | |
| | VOC | NOx | SOx | CO | PM OR PM₁₀ | INORGANIC |
| BACT Limit | | 30 ppm | | 100 ppm | | |
| Averaging Time | | * | | | | |
| Correction | | 3% O ₂ on a dry basis | | 3% O ₂ on a dry basis | | |
| B. OTHER BACT REQUIREMENTS: Burner emissions only. | | | | | | |
| C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology | | | | | | |
| D. EMISSION INFORMATION COMMENTS: * Compliance with Facility Permit - Section E averaging time. | | | | | | |

5. CONTROL TECHNOLOGY

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|--|----------------------------|---------------------------|-----------------------|
| A. MANUFACTURER: TANN | B. MODEL: TR3092 | | |
| C. DESCRIPTION: Regenerative Thermal Oxidizer venting prime and finish coaters. | | | |
| D. SIZE/DIMENSIONS/CAPACITY: 42' W x 23'-6" L, Dual Ceramic Heat Exchanger Media and 25 HP combustion air blower. | | | |
| E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. same PC ISSUANCE DATE: same PO NO.: same PO ISSUANCE DATE: same | | | |
| F. REQUIRED CONTROL EFFICIENCIES: . | | | |
| CONTAMINANT | OVERALL CONTROL EFFICIENCY | CONTROL DEVICE EFFICIENCY | COLLECTION EFFICIENCY |
| VOC | ___% | ___% | ___% |
| NOx | ___% | ___% | ___% |
| SOx | ___% | ___% | ___% |
| CO | ___% | ___% | ___% |
| PM | ___% | ___% | ___% |
| PM ₁₀ | ___% | ___% | ___% |
| INORGANIC | ___% | ___% | ___% |
| G. CONTROL TECHNOLOGY COMMENTS: The combustion chamber temperature shall be maintained at a minimum of 1,500 degrees Fahrenheit whenever the equipment it serves is in operation. The operator shall maintain this equipment to achieve a minimum destruction efficiency of 95 percent and a minimum overall control efficiency of 95 percent for VOC during the normal operation of the equipment it vents. | | | |

6. DEMONSTRATION OF COMPLIANCE

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| A. COMPLIANCE DEMONSTRATED BY: Source Test |
| B. DATE(S) OF SOURCE TEST: 3/26/2019 |
| C. COLLECTION EFFICIENCY METHOD: N/A |
| D. COLLECTION EFFICIENCY PARAMETERS: N/A |
| E. SOURCE TEST/PERFORMANCE DATA: CO concentration at startup: 83 ppm @ 3% O2 NOx concentration at startup: 23.4 ppm @ 3% O2 |
| F. TEST OPERATING PARAMETERS AND CONDITIONS: N/A |
| G. TEST METHODS (SPECIFY AGENCY): South Coast AQMD Method 100.1 for NOx and CO. South Coast AQMD Method 25.1/25.3 for VOC destruction efficiency. |

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| H. MONITORING AND TESTING REQUIREMENTS: |
| I. DEMONSTRATION OF COMPLIANCE COMMENTS: Enter comments for additional information for Demonstration of Compliance. |

7. ADDITIONAL SCAQMD REFERENCE DATA

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| A. BCAT: Click here to enter text. | B. CCAT: 12 | 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): PR18364 | |
| 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. |