



## Section I – South Coast AQMD BACT/LAER Determination

Source Type: **Major/LAER**  
 Application No.: **437199**  
 Equipment Category: **Furnace, Heat Treating**  
 Equipment Subcategory: **Aluminum, <970 °F**  
 Date: **February 5, 2021**

### 1. EQUIPMENT INFORMATION

A. MANUFACTURER: Granco Clark		B. MODEL: N/A Serial #10238-88	
C. DESCRIPTION: Aluminum Billet Furnace or Oven, for 7" diameter billets. Natural gas fired with a 25 HP circulation fan and a 7.5 HP combustion air blower.			
D. FUNCTION: The furnace treats aluminum billets prior to and during extrusion process, where they are fed through dies to form the extruded aluminum channels.			
E. SIZE/DIMENSIONS/CAPACITY: 2ft 6in W. x 36ft L. x 3ft H.			
<b>COMBUSTION SOURCES</b>			
F. MAXIMUM HEAT INPUT: 5.47 MMBtu/hr			
G. BURNER INFORMATION: Low-NOx Burner			
TYPE		INDIVIDUAL HEAT INPUT	
N/A		5.47 MMBtu/hr	
		NUMBER	
		1	
H. PRIMARY FUEL: Natural Gas		I. OTHER FUEL: N/A	
J. OPERATING SCHEDULE: Hours 24 HRS//DAY 7 DAYS/WEEK 52 WKS/YR			
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: The equipment is a RECLAIM process unit. Thermocouple is in contact with the billet during the operation. Billet temperature ranges from 900 to 970 °F.			

### 2. COMPANY INFORMATION

A. COMPANY: Sierra Aluminum Company		B. FAC ID: 54402	
C. ADDRESS: 2345 Fleetwood Drive CITY: Riverside STATE: CA ZIP: 92509		D. NAICS CODE: 33211	
E. CONTACT PERSON: Naro Kuch		F. TITLE: Environmental Manager	
G. PHONE NO.: (951) 781-7800		H. EMAIL: naro.kuch@sierraaluminum.com	

### 3. PERMIT INFORMATION

A. AGENCY: South Coast AQMD	B. APPLICATION TYPE: MODIFICATION
C. SCAQMD ENGINEER: Monica Fernandez-Neild	
D. PERMIT INFORMATION: P/C ISSUANCE DATE: 12/31/99 P/O NO.: F74295 P/O ISSUANCE DATE: 3/23/2005	
E. START-UP DATE: 2/2/2005	
F. OPERATIONAL TIME: 15 years	

### 4. EMISSION INFORMATION

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<sub>2</sub>, %CO<sub>2</sub>, 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 PM <sub>10</sub>	INORGANIC
BACT Limit		25 PPMV				
Averaging Time		1 Hour				
Correction		3% O <sub>2</sub>				

B. OTHER BACT REQUIREMENTS: N/A

C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology

D. EMISSION INFORMATION COMMENTS: This is an older model billet oven. Facility stated that rigorous maintenance is required to keep the unit in compliance for NOx. Fuel nozzles and insulation have to be maintained/replaced periodically.

**5. CONTROL TECHNOLOGY**

A. MANUFACTURER: N/A		B. MODEL: N/A	
C. DESCRIPTION: N/A			
D. SIZE/DIMENSIONS/CAPACITY: N/A			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO.: N/A                      PC ISSUANCE DATE: N/A PO NO.: N/A                                      PO ISSUANCE DATE: N/A			
F. REQUIRED CONTROL EFFICIENCIES: N/A			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	___%	___%	___%
NO <sub>x</sub>	___%	___%	___%
SO <sub>x</sub>	___%	___%	___%
CO	___%	___%	___%
PM	___%	___%	___%
PM <sub>10</sub>	___%	___%	___%
INORGANIC	___%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS Enter comments for additional information regarding Control Technology.			

**6. DEMONSTRATION OF COMPLIANCE**

A. COMPLIANCE DEMONSTRATED BY: Method 100.1 Source Test
B. DATE(S) OF SOURCE TEST: 4/10/2013
C. COLLECTION EFFICIENCY METHOD: N/A
D. COLLECTION EFFICIENCY PARAMETERS: N/A
E. SOURCE TEST/PERFORMANCE DATA: 16.4 PPMV NO <sub>x</sub> @3% O <sub>2</sub>
F. TEST OPERATING PARAMETERS AND CONDITIONS: Normal
G. TEST METHODS (SPECIFY AGENCY): SCAQMD Method 100.1
H. MONITORING AND TESTING REQUIREMENTS: For RECLAIM Process Units, the NO <sub>x</sub> concentration limit is tested every 5 years.

I. DEMONSTRATION OF COMPLIANCE COMMENTS: The unit has shown compliance with the 25 ppm NOx @ 3% O2 through the years.

**7. ADDITIONAL SCAQMD REFERENCE DATA**

A. BCAT: 000302	B. CCAT: Click here to enter text.	C. APPLICATION TYPE CODE: 50	
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): R16209	
G. SCAQMD SOURCE SPECIFIC RULES: None. Only RECLAIM R2012.			
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.