



## Section II - Other LAER/BACT Determination

Source Type: **Major/LAER**  
 Application No.: **5299**  
 Equipment Category: **Fumigation Chamber**  
 Equipment Subcategory: **Methyl Bromide**  
 Date: **September 2, 2022**

### 1. EQUIPMENT INFORMATION

A. MANUFACTURER: Custom		B. MODEL: Custom	
C. DESCRIPTION: Methyl Bromide fumigation and control system consisting of carbon adsorption control device with onsite reactivation using a chemical scrubber.			
D. FUNCTION: Guadalupe Cooling is a produce cooling facility for vegetables, including broccoli, lettuce, cauliflower and celery, and berries. The produce is fumigated with methyl bromide prior to export overseas.			
E. SIZE/DIMENSIONS/CAPACITY: One 10,097 cu. ft. and two 19,189 cu. ft. in volume fumigation chambers. One methyl bromide volitizer and injection system. one USDA-APHIS-approved methyl bromide monitor and control room with methyl bromide cylinder storage.			
<b>COMBUSTION SOURCES</b>			
F. MAXIMUM HEAT INPUT: N/A			
G. BURNER INFORMATION			
TYPE		INDIVIDUAL HEAT INPUT	
N/A		N/A	
H. PRIMARY FUEL: N/A		I. OTHER FUEL: N/A	
J. OPERATING SCHEDULE: Hours 8 Days 7 Weeks 46			
K. EQUIPMENT COST: N/A			
L. EQUIPMENT INFORMATION COMMENTS: N/A			

### 2. COMPANY INFORMATION

A. COMPANY: Guadalupe Cooling Company		B. FAC ID: 2825	
C. ADDRESS: 2040 Guadalupe Road CITY: Nipomo STATE: CA ZIP: 93444		D. NAICS CODE: 561710	
E. CONTACT PERSON: Danny Vincent		F. TITLE: Representative	
G. PHONE NO.: (805) 343-2331 ext 108		H. EMAIL: sales@freshkist.com	

**3. PERMIT INFORMATION**

A. AGENCY: San Luis Obispo County APCD	B. APPLICATION TYPE: NEW CONSTRUCTION
C. SCAQMD ENGINEER: PLR from SLOCAPCD	
D. PERMIT INFORMATION:	PC ISSUANCE DATE: 8/24/10
P/O NO.: 1713-2	PO ISSUANCE DATE: 2/18/2014
E. START-UP DATE: N/A	
F. OPERATIONAL TIME: 8 years	

**4. EMISSION INFORMATION**

A. BACT EMISSION LIMITS AND AVERAGING TIMES:						
	VOC	NOX	SOX	CO	PM OR PM <sub>10</sub>	INORGANIC
BACT Limit						
Averaging Time						
Correction						
B. OTHER BACT REQUIREMENTS: 86% overall control efficiency (capture and control) on carbon adsorption system.						
C. BASIS OF THE BACT/LAER DETERMINATION: Achieved in Practice/New Technology						
D. EMISSION INFORMATION COMMENTS: N/A						

## 5. CONTROL TECHNOLOGY

A. MANUFACTURER: Custom		B. MODEL: Custom	
C. DESCRIPTION: Methyl Bromide fumigation and control system consisting of carbon adsorption control device with onsite reactivation using a chemical scrubber.			
D. SIZE/DIMENSIONS/CAPACITY: One carbon adsorption bed with 15.6" inner diameter exhaust stack, 40 ft. from ground level and 5,350 cubic feet per minute exhaust blower. One chemical scrubber, 15,229 gallon tank with 2.54" inner diameter exhaust stack, 50 ft. from ground level with minimum 250 cfm. desorption blower.			
E. CONTROL EQUIPMENT PERMIT INFORMATION: APPLICATION NO. 5299      PC ISSUANCE DATE: 8/18/10 PO NO.: 1713-2      PO ISSUANCE DATE: 2/18/2014			
F. REQUIRED CONTROL EFFICIENCIES: 86% overall control efficiency (capture and control) on carbon adsorption system.			
CONTAMINANT	OVERALL CONTROL EFFICIENCY	CONTROL DEVICE EFFICIENCY	COLLECTION EFFICIENCY
VOC	86%	___%	___%
NO <sub>x</sub>	--%	___%	___%
SO <sub>x</sub>	--%	___%	___%
CO	--%	___%	___%
PM	--%	___%	___%
PM <sub>10</sub>	--%	___%	___%
INORGANIC	--%	___%	___%
G. CONTROL TECHNOLOGY COMMENTS: The overall control efficiency was established and conditioned based on source testing conducted at the facility.			

## 6. DEMONSTRATION OF COMPLIANCE

A. COMPLIANCE DEMONSTRATED BY: Source Tests conduction every 24 months since 2013
B. DATE(S) OF SOURCE TEST: Every 24 months since 2013
C. COLLECTION EFFICIENCY METHOD: See EPA Method below
D. COLLECTION EFFICIENCY PARAMETERS: See EPA Method below
E. SOURCE TEST/PERFORMANCE DATA: Demonstrate 86% overall control efficiency from carbon adsorption system.
F. TEST OPERATING PARAMETERS AND CONDITIONS: During venting of fumigation chambers. Sampling ports and access for source testing shall be provided in accordance with the provisions of SJVAPCD Rule 209 -Provision for Sampling and Testing Facilities.
G. TEST METHODS (SPECIFY AGENCY): EPA Method 2, 2A, or 2D for flow rate and Method 25, 25A, 25B, or 25D for measuring total gaseous organic concentrations at the inlet and outlet of the control device.

K. MONITORING AND TESTING REQUIREMENTS: (USDA-APHIS)-approved methyl bromide monitors on the inlet and outlet of both the carbon bed and chemical scrubber shall be installed, operated and maintained in accordance with the procedure listed in EPA Test Method 1 or 1A. USDA-APHIS-approved methyl bromide monitors shall be operated and maintained to demonstrate compliance with hourly, daily, and annual emission limits, and control efficiencies of the carbon bed and scrubber system. Each monitor shall be calibrated at least once every twelve (12)-months. Source testing required at least once every twenty-four (24) months.
I. DEMONSTRATION OF COMPLIANCE COMMENTS: N/A

**7. ADDITIONAL SCAQMD REFERENCE DATA**

A. BCAT: Click here to enter text.	B. CCAT: Click here to enter text.	C. APPLICATION TYPE CODE: Click here to enter text.	
D. RECLAIM FAC? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	E. TITLE V FAC: YES <input type="checkbox"/> NO <input type="checkbox"/>	F. SOURCE TEST ID(S): Click here to enter text.	
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.