



AUG 18 2016

Mr. Dan Martin  
E & J Gallo Winery  
18000 W River Rd  
Livingston, CA 95334

**Re: Proposed ATC / Certificate of Conformity (Significant Mod)  
District Facility # N-1237  
Project # 1162285**

Dear Mr. Martin:

Enclosed for your review is the District's analysis of an application for Authorities to Construct for the facility identified above. You requested that Certificates of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. This project authorizes the installation of 95 new wine storage tanks.

After addressing all comments made during the 30-day public notice and the 45-day EPA comment periods, the District intends to issue the Authorities to Construct with Certificates of Conformity. Please submit your comments within the 30-day public comment period, as specified in the enclosed public notice. Prior to operating with modifications authorized by the Authorities to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Errol Villegas, Permit Services Manager, at (559) 230-5900.

Thank you for your cooperation in this matter.

Sincerely,



Arnaud Marjollet  
Director of Permit Services

Enclosures

cc: Tung Le, CARB (w/enclosure) via email  
cc: Gerardo C. Rios, EPA (w/enclosure) via email

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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**San Joaquin Valley Air Pollution Control District**  
**Authority to Construct Application Review**  
*Installation of 95 New Wine Storage Tanks*

Facility Name:	E & J Gallo Winery	Date:	August 4, 2016
Mailing Address:	18000 W. River Road Livingston, CA 95334	Engineer:	Dustin Brown
Contact Person:	Dan Martin	Lead Engineer:	Jerry Sandhu
Telephone:	(209) 394-6211		
E-Mail:	Dan.Martin@ejgallo.com		
Application #(s):	N-1237-788 through '882		
Project #:	N-1162285		
Deemed Complete:	June 30, 2016		

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**I. Proposal**

E & J Gallo Winery has requested Authority to Construct (ATC) permits for the installation of 95 new wine storage tanks. These tanks will be used strictly for wine storage operations.

E & J Gallo Winery received their Title V Permit for this stationary source on June 27, 2000. This modification can be classified as a Title V significant modification pursuant to Rule 2520, Sections 3.20 and 3.29, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authorities to Construct. E & J Gallo Winery must apply to administratively amend their Title V Operating Permit to include the requirements of the ATC's issued with this project.

**II. Applicable Rules**

District Rule 2201	New and Modified Stationary Source Review Rule (2/18/16)
District Rule 2520	Federally Mandated Operating Permits (6/21/01)
District Rule 4001	New Source Performance Standards (4/14/99)
District Rule 4002	National Emissions Standards for Hazardous Air Pollutants (5/20/04)
District Rule 4101	Visible Emissions (2/17/05)
District Rule 4102	Nuisance (12/17/92)
District Rule 4623	Storage of Organic Liquids (5/19/05)
District Rule 4694	Wine Fermentation and Storage Tanks (12/15/05)
CH&SC 41700	Health Risk Assessment
CH&SC 42301.6	School Notice
Public Resources Code 21000-21177:	California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387:	CEQA Guidelines

### III. Project Location

This facility is located at 18000 W. River Road in Livingston, CA.

The District has verified that the equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

### IV. Process Description

E & J Gallo Winery produces both red and white table wines, as well as other specialty wine products, from the fermentation of grapes. During the "crush season," typically from late August to late November, both red and white grapes are received by truck and delivered to a crusher-stemmer which serves to crush the grapes and remove the stems. In the case of red wines, the resultant juice (termed "must" and containing the grape skins, pulp and seeds) is pumped to red wine fermentation tanks for fermentation, a batch process. The red wine fermentation tanks are specifically designed to ferment the must in contact with the skins and to allow the separation of the skins and seeds from the wine after fermentation. In the case of white wines, the must is sent to screens and presses for separation of grape skins and seeds prior to fermentation. After separation of the skins and seeds, the white must is transferred to a fermentation tank. White wine fermentation can be carried out in a tank without design provisions for solids separation since the skins and seeds have already been separated.

After transfer of the must (for red or white wine) to the fermentation tank, the must is inoculated with yeast which initiates the fermentation reactions. During fermentation, the yeast metabolizes the sugar in the grape juice, converting it to ethanol and carbon dioxide (CO<sub>2</sub>) while releasing heat. Temperature is typically controlled by refrigeration, and is maintained at 45–65 °F for white wine fermentation and 70–95 °F for red wine fermentation. The sugar content of the fermentation mass is measured in °Brix (weight %) and is typically 22–26° for unfermented grape juice, dropping to 4° or less at the end of fermentation. Finished ethanol concentration is approximately 10 to 14 percent by volume. Batch fermentation requires 3-5 days per batch for red wine and 1-2 weeks per batch for white wine. VOCs are emitted during the fermentation process along with the CO<sub>2</sub>. The VOCs consist primarily of ethanol along with small quantities of other fermentation byproducts.

Following the completion of fermentation, white wine is transferred directly to storage tanks. Red wine is first directed to the presses for separation of solids and then routed to the storage tanks. Tanks can potentially operate in either: (1) a fermentation operation during which the tank is vented directly to the atmosphere to release the evolved CO<sub>2</sub> byproduct from the fermentation reaction; (2) a storage operation during which the tank is closed to minimize contact with air and refrigerated to preserve the wine; (3) or both fermentation and storage operations. Post-fermentation operations such as cold stabilization, racking, and filtration are conducted in the tanks, resulting in a number of inter-tank transfers during the period between the end of fermentation and bottling or bulk shipment. Storage operations are conducted year-round. VOC emissions occur primarily as a result of the inter-tank transfers which are necessitated by the post fermentation operations.

## V. Equipment Listing

E & J Gallo Winery is proposing to install 95 new winery tanks. The 95 tanks will consist of seven different groups of nominal tank sizes. A summary of the equipment descriptions for each of the eight tank groups is shown below.

The facility has also requested that each tank equipment description contain a unique identifier number. For the purposes of this project, each tank will be assigned an identifier number based on the size and number of each tank in that group (e.g. "Tank 50 A" for the 1<sup>st</sup> 50,000 gallon tank). The exact tank identifier numbers the facility assigns to each tank will be provided to the District by the facility once construction has been completed.

N-1237-788 through '-795:	50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-796 through '-815:	85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-816 through '-836:	105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-837 through '-860:	215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-861 through '-864:	350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-865 through '-880:	430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE
N-1237-881 and '-882:	640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

In addition, per District practice, for new winery tank installations, the nominal tank size and dimensions are included on the ATC. Upon completion of construction, E & J Gallo Winery will perform an actual tank capacity measurement on each tank which will establish the as built gauge rating of each tank. The equipment description of the Permit to Operate will then be administratively updated with the gauge rating of each tank. The following condition (typical condition shown for unit N-1237-788) will be included on each ATC to assure continued compliance:

- The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201]

## VI. Emission Control Technology Evaluation

VOCs (ethanol) are emitted from wine storage tanks as a result of both working losses (which occur when the liquid level in the tank changes) and breathing losses (expansion and contraction effects due to temperature variations). The proposed pressure/vacuum valve limits these emissions by requiring the maximum amount of variation in tank pressure before allowing the tank to vent to the atmosphere or allowing air admission to the tank.

## VII. General Calculations

### A. Assumptions

- The proposed tanks will only be used for red and white wine storage.
- Typically, for enclosed tanks with insulation (or equivalent) and P/V valves, breathing losses from storage of wine are assumed to be negligible.
- Maximum daily liquid storage temperature = 81.0 °F (proposed by the applicant)<sup>(1)</sup>
- Maximum annual liquid storage temperature = 63.3 °F (proposed by the applicant)<sup>(1)</sup>
- Storage tank daily maximum ethanol content of stored wine is 23.9% (proposed by the applicant and worst case District practice)
- Storage tank annual average ethanol content of stored wine is 15% (proposed by the applicant)
- The storage tank throughput rates listed in the following table were proposed by E & J Gallo Winery for this project:

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<sup>(1)</sup> Per District practice (see Appendix B), for facilities located in the northern region, the maximum daily and annual liquid storage temperatures used for emission calculation purposes should be 77.3 °F and 61.6 °F, respectively. This facility is located in Livingston, CA, which is in the District's northern region. However, as a conservative estimate, the facility has indicated that the ambient conditions in Livingston, CA are more similar to the ambient conditions of Fresno, CA, located in the District's central region. Per District practice, for facilities located in the central region, the maximum daily and annual liquid storage temperatures used for emission calculation purposes should be 81.0 °F and 63.3 °F respectively. Higher ambient temperatures result in the worst case VOC emission rates. Therefore, as a conservative estimate, the storage temperatures for Fresno, CA will be used for the purposes of this project.

Permits	Nominal Tank Size (gallons)	Daily Throughput (gal/day)	Annual Throughput (gal/year)
N-1237-788 through '-795	50,000	50,000	500,000
N-1237-796 through '-815	85,000	85,000	850,000
N-1237-816 through '-836	105,000	105,000	1,050,000
N-1237-837 through '-860	215,000	215,000	2,150,000
N-1237-861 through '-864	350,000	350,000	3,500,000
N-1237-865 through '-880	430,000	430,000	4,300,000
N-1237-881 and '-882	640,000	640,000	4,480,000

## B. Emission Factors

Tanks 4.0d will be used to calculate the storage emissions from the new tanks.

Per District practice (see Appendix B), the emission estimates provided by the Tanks 4.0 model represents the combined loss of ethanol (VOC) and water from each tank. To calculate the ethanol (VOC) portion of the emissions, it is first necessary to determine the molar fraction of ethanol ( $y_a$ ) in the vapor emissions from the tank. This can be calculated from the average molecular weight (AMW) of the vapor as listed on page 2 of the Tanks 4.0 runs in Appendix A. Per the definition of AMW for a binary mixture:

$$AMW = y_a \times MW_a + (1-y_a) \times MW_w$$

Solving for the molar fraction of ethanol,

$$y_a = \frac{AMW - MW_w}{MW_a - MW_w}$$

Where,

$AMW_{23.9\% \text{ volume ethanol content}} = 30.34 \text{ lb/mole (daily basis)}$

$AMW_{15\% \text{ volume ethanol content}} = 27.13 \text{ lb/mole (annual basis)}$

$MW_a = \text{Molecular weight of ethanol} = 46.02 \text{ lb/mole}$

$MW_w = \text{Molecular weight of water} = 18.02 \text{ lb/mole}$

Therefore,

$$y_a = (30.34 - 18.02)/(46.02 - 18.02) = 0.44 \text{ for 23.9\% ethanol mixture (daily basis)}$$

$$y_a = (27.13 - 18.02)/(46.02 - 18.02) = 0.33 \text{ for 15\% ethanol mixture (annual basis)}$$

And the daily and annual emission rates can be determined using the following equations:

$$PE_{\text{daily}} = \frac{E_d}{AMW} * y_a * 46.02$$

$$PE_{\text{annual}} = \frac{E_a}{AMW} * y_a * 46.02$$

Where,

$E_d$  = Daily Emission Rate from Tanks 4.0 Program

$E_a$  = Annual Emission Rate from Tanks 4.0 Program

Therefore, the daily and annual PE values will be determined using the following equations:

$$\text{Daily PE} = (\text{Tanks 4.0 Emission Rate} / 30.34) * 0.44 * 46.02$$

$$\text{Daily PE} = \text{Tanks 4.0 Emission Rate} * 0.667$$

$$\text{Annual PE} = (\text{Tanks 4.0 Emission Rate} / 27.13) * 0.33 * 46.02$$

$$\text{Annual PE} = \text{Tanks 4.0 Emission Rate} * 0.56$$

### C. Calculations

#### 1. Pre-Project Potential to Emit (PE1)

Since these tanks are new emissions units, PE1 = 0 for all pollutants.

#### 2. Post Project Potential to Emit (PE2)

Two Tanks 4.0 runs have been performed. One using a daily throughput as listed in the table below to calculate the daily post-project potential to emit by dividing the month of July emissions by the number of days in the month and one using the annual throughput as listed in the table below to calculate the annual post-project potential to emit. See Appendix A for the Tanks 4.0 runs for each tank.

Daily PE2:

<b>Daily Post-Project Potential to Emit</b>				
<b>Permits</b>	<b>Max Daily Throughput per Tank (gal/day)</b>	<b>Tanks 4.0 Daily PE2 per Tank (lb/day)</b>	<b>Adjustment for Water Vapor Emissions</b>	<b>Total Daily PE2 per Tank (lb/day)</b>
N-1237-788 through '-795 (8 tanks in group)	50,000	30.7	0.667	20.5
N-1237-796 through '-815 (20 tanks in group)	85,000	52.2	0.667	34.8
N-1237-816 through '-836 (21 tanks in group)	105,000	64.5	0.667	43.0
N-1237-837 through '-860 (24 tanks in group)	215,000	132.0	0.667	88.0
N-1237-861 through '-864 (4 tanks in group)	350,000	214.9	0.667	143.3
N-1237-865 through '-880 (16 tanks in group)	430,000	264.0	0.667	176.1
N-1237-881 and '-882 (2 tanks in group)	640,000	392.9	0.667	262.1

Annual PE2:

<b>Annual Post-Project Potential to Emit</b>					
<b>Permits</b>	<b>Max Annual Throughput per Tank (gal/year)</b>	<b>Tanks 4.0 Annual PE2 per Tank (lb/year)</b>	<b>Adjustment for Water Vapor Emissions</b>	<b>Total Annual PE2 per Tank (lb/year)</b>	<b>Total Annual PE2 for Tank Group (lb/year)</b>
N-1237-788 through '-795 (8 tanks in group)	500,000	131	0.56	73	584
N-1237-796 through '-815 (20 tanks in group)	850,000	223	0.56	125	2,500
N-1237-816 through '-836 (21 tanks in group)	1,050,000	275	0.56	154	3,234
N-1237-837 through '-860 (24 tanks in group)	2,150,000	563	0.56	315	7,560
N-1237-861 through '-864 (4 tanks in group)	3,500,000	917	0.56	514	2,056
N-1237-865 through '-880 (16 tanks in group)	4,300,000	1,127	0.56	631	10,096
N-1237-881 and '-882 (2 tanks in group)	4,480,000	1,174	0.56	657	1,314
<b>Total for Project:</b>					<b>27,344</b>



### **3. Pre-Project Stationary Source Potential to Emit (SSPE1)**

Pursuant to Section 4.9 of District Rule 2201, the Pre-Project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE1 calculations are not necessary.

### **4. Post Project Stationary Source Potential to Emit (SSPE2)**

Pursuant to Section 4.10 of District Rule 2201, the Post Project Stationary Source Potential to Emit (SSPE2) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site.

This project only concerns VOC emissions. This facility acknowledges that its VOC emissions are already above the Offset and Major Source Thresholds for VOC emissions; therefore, SSPE2 calculations are not necessary.

### **5. Major Source Determination**

#### **Rule 2201 Major Source Determination:**

This source is an existing Major Source for VOC emissions and will remain a Major Source for VOC. No change in other pollutants are proposed or expected as a result of this project.

**Rule 2410 Major Source Determination:**

The following table summarizes projects that authorized winery tank related operations at this facility that resulted in a potential VOC emission increase prior to the proposed project.

<b>Project Number</b>	<b>Proposed Permitting Actions</b>	<b>PE (lb-VOC/year)</b>
N-1072605	Applying for In-house PTOs for existing wine storage and fermentation tanks	470,985
N-1110129	Install 2 wine fermentation tanks	8,432
N-1110722	Convert 7 existing grape juice tanks to wine fermentation tanks	15,680
N-1113344	Install 104 wine storage and fermentation tanks	94,430
N-1113395	Install 3 wine storage and fermentation tanks	10,173
N-1113407	Install 2 distilled spirit tanks	188
N-1123583	Install 52 new wine storage tanks	34,264
N-1131615	Install 8 wine storage tanks and 24 wine fermentation tanks	85,064
N-1132991	Install 20 wine storage tanks	9,596
N-1133659	Install 24 wine fermentation and 8 wine storage tanks	85,064
N-1141254	Install 12 wine storage and fermentation tanks	1,164
N-1143437	Install 12 wine storage tanks	6,536
N-1143697	Install 5 wine and spirits storage tanks	328
<b>Total</b>		<b>821,904</b>

As indicated above, the SSPE for VOC emissions solely from their winery tank related operations prior to the proposed project is calculated to be 821,904 pounds per year, equivalent to 411 tons per year.

The facility evaluated under this project is not listed as one of the categories specified in 40 CFR 52.21(b)(1)(i). Therefore, the following PSD Major Source threshold for VOC is applicable.

<b>PSD Major Source Determination (tons/year)</b>	
	VOC
Facility PE before Project Increase	411
PSD Major Source Thresholds	250
Existing PSD Major Source?	<b>Yes</b>

As shown above, the facility is an existing Major Source for PSD for VOC. Therefore, the facility is an existing Major Source for PSD.

## 6. Baseline Emissions (BE)

The BE calculation (in lb/year) is performed pollutant-by-pollutant for each unit within the project to calculate the QNEC, and if applicable, to determine the amount of offsets required.

Pursuant to District Rule 2201, BE = PE1 for:

- Any unit located at a non-Major Source,
- Any Highly-Utilized Emissions Unit, located at a Major Source,
- Any Fully-Offset Emissions Unit, located at a Major Source, or
- Any Clean Emissions Unit, located at a Major Source.

otherwise,

BE = Historic Actual Emissions (HAE), calculated pursuant to District Rule 2201.

Since these are new emissions units, BE = PE1 = 0 for all pollutants for each unit

## 7. SB 288 Major Modification

SB 288 Major Modification is defined in 40 CFR Part 51.165 as "any physical change in or change in the method of operation of a major stationary source that would result in a significant net emissions increase of any pollutant subject to regulation under the Act."

As discussed in Section VII.C.5 above, since this facility is a major source for VOC emissions; therefore, the project's PE2 is compared to the SB 288 Major Modification Thresholds in the following table in order to determine if the SB 288 Major Modification calculation is required.

<b>SB 288 Major Modification Thresholds</b>			
<b>Pollutant</b>	<b>Project PE2 (lb/year)</b>	<b>Threshold (lb/year)</b>	<b>SB 288 Major Modification Calculation Required?</b>
NO <sub>x</sub>	0	50,000	No
SO <sub>x</sub>	0	80,000	No
PM <sub>10</sub>	0	30,000	No
VOC	27,344	50,000	No

Since none of the SB 288 Major Modification Thresholds are surpassed with this project, this project does not constitute an SB 288 Major Modification.

## 8. Federal Major Modification

District Rule 2201 states that a Federal Major Modification is the same as a “Major Modification” as defined in 40 CFR 51.165 and part D of Title I of the CAA.

The determination of Federal Major Modification is based on a two-step test. For the first step, only the emission *increases* are counted. Emission decreases may not cancel out the increases for this determination.

### Step 1

For new emissions units, the increase in emissions is equal to the PE2 for each new unit included in this project.

Federal Major Modification Thresholds for Emission Increases			
Pollutant	Total Emissions Increases (lb/yr)	Thresholds (lb/yr)	Federal Major Modification?
NO <sub>x</sub> *	0	0	No
VOC*	27,344	0	Yes
PM <sub>10</sub>	0	30,000	No
PM <sub>2.5</sub>	0	20,000	No
SO <sub>x</sub>	0	80,000	No

\*If there is any emission increases in NO<sub>x</sub> or VOC, this project is a Federal Major Modification and no further analysis is required.

Since there is an increase in VOC emissions, this project constitutes a Federal Major Modification. Federal Offset quantities are calculated below.

### Federal Offset Quantities:

The Federal offset quantity is only calculated only for the pollutants for which the project is a Federal Major Modification. The Federal offset quantity is the sum of the annual emission changes for all new and modified emission units in a project calculated as the potential to emit after the modification (PE2) minus the actual emissions (AE) during the baseline period for each emission unit times the applicable federal offset ratio. As shown above, this project triggers a Federal Major Modification for VOC emissions. Therefore, the federal offsets required for VOC emissions for this project are as follows:

VOC		Federal Offset Ratio	1.5
Permit No.	Actual Emissions (lb/year)	Potential Emissions (lb/year)	Emissions Change (lb/yr)
N-1237-788-0 through N-1237-882-0	0	27,344	27,344
Net Emission Change (lb/year):			27,344
Federal Offset Quantity: (NEC * 1.5)			41,016

**9. Rule 2410 – Prevention of Significant Deterioration (PSD) Applicability Determination**

Rule 2410 applies to pollutants for which the District is in attainment or for unclassified, pollutants. The pollutants addressed in the PSD applicability determination are listed as follows:

- NO<sub>2</sub> (as a primary pollutant)
- SO<sub>2</sub> (as a primary pollutant)
- CO
- PM
- PM<sub>10</sub>
- Greenhouse gases (GHG): CO<sub>2</sub>, N<sub>2</sub>O, CH<sub>4</sub>, HFCs, PFCs, and SF<sub>6</sub>

**I. Project Location Relative to Class 1 Area**

As demonstrated in the “PSD Major Source Determination” Section above, the facility was determined to be a existing PSD Major Source. Because the project is not located within 10 km (6.2 miles) of a Class 1 area – modeling of the emission increase is not required to determine if the project is subject to the requirements of Rule 2410.

**II. Project Emission Increase – Significance Determination**

**a. Evaluation of Calculated Post-project Potential to Emit for New or Modified Emissions Units vs PSD Significant Emission Increase Thresholds**

As a screening tool, the post-project potential to emit from all new and modified units is compared to the PSD significant emission increase thresholds, and if the total potentials to emit from all new and modified units are below the applicable thresholds, no further PSD analysis is needed.

<b>PSD Significant Emission Increase Determination: Potential to Emit (tons/year)</b>					
	<b>NO2</b>	<b>SO2</b>	<b>CO</b>	<b>PM</b>	<b>PM10</b>
Total PE from New and Modified Units	0	0	0	0	0
PSD Significant Emission Increase Thresholds	40	40	100	25	15
PSD Significant Emission Increase?	N	N	N	N	N

As demonstrated above, because the post-project total potentials to emit from all new and modified emission units are below the PSD significant emission increase thresholds, this project is not subject to the requirements of Rule 2410 and no further discussion is required.

**10. Quarterly Net Emissions Change (QNEC)**

The QNEC is calculated solely to establish emissions that are used to complete the District's PAS emissions profile screen. Detailed QNEC calculations are included in Appendix E.

**VIII. Compliance Determination**

**Rule 2201 New and Modified Stationary Source Review Rule**

**A. Best Available Control Technology (BACT)**

**1. BACT Applicability**

BACT requirements are triggered on a pollutant-by-pollutant basis and on an emissions unit-by-emissions unit basis. Unless specifically exempted by Rule 2201, BACT shall be required for the following actions\*:

- a. Any new emissions unit with a potential to emit exceeding two pounds per day,
- b. The relocation from one Stationary Source to another of an existing emissions unit with a potential to emit exceeding two pounds per day,
- c. Modifications to an existing emissions unit with a valid Permit to Operate resulting in an AIPE exceeding two pounds per day, and/or
- d. Any new or modified emissions unit, in a stationary source project, which results in an SB 288 Major Modification or a Federal Major Modification, as defined by the rule.

\*Except for CO emissions from a new or modified emissions unit at a Stationary Source with an SSPE2 of less than 200,000 pounds per year of CO.

**a. New emissions units – PE > 2 lb/day**

As seen in Section VII.C.2 above, the applicant is proposing to install 95 new wine storage tanks, each with a PE greater than 2 lb/day for VOC emissions. Therefore, BACT is triggered for VOC emissions from each tank since the PEs are greater than 2 lb/day.

**b. Relocation of emissions units – PE > 2 lb/day**

As discussed in Section I above, there are no emissions units being relocated from one stationary source to another; therefore BACT is not triggered.

**c. Modification of emissions units – AIPE > 2 lb/day**

As discussed in Section I above, there are no modified emissions units associated with this project. Therefore BACT is not triggered.

**d. SB 288/Federal Major Modification**

As discussed in Sections VII.C.7 and VII.C.8 above, this project does constitute a Federal Major Modification for VOC emissions. Therefore BACT is triggered for VOC for all emissions units in the project for which there is an emission increase.

**2. BACT Guideline**

BACT Guideline 5.4.13, applies to wine storage tanks. E & J Gallo Winery is proposing to install 95 new wine storage tanks. Therefore, BACT Guideline 5.4.13 is applicable to these new wine storage tanks (BACT Guideline 5.4.13 included in Appendix C).

**3. Top-Down BACT Analysis**

Pursuant to the attached Top-Down BACT Analysis (see Appendix C), BACT is satisfied with the following:

VOC: Insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, “gas tight” tank operation and continuous storage temperature not exceeding 75°F, achieved within 60 days of completion of fermentation.

Each of the new wine storage tanks being installed within this project is equipped with insulation and a pressure/vacuum valve set to within 10% of the maximum allowable working pressure of the tank; operates in a gas-tight condition and the continuous storage temperature does not exceed 75 degrees F within 60 days of the completion of the fermentation cycle. Therefore, the wine storage tanks meet the BACT requirements for this class and category of operation and no further discussion is required.

The following condition will be included on each ATC to assure compliance with the BACT requirements:

- This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]

**B. Offsets**

**1. Offset Applicability**

Offset requirements shall be triggered on a pollutant by pollutant basis and shall be required if the SSPE2 equals to or exceeds the offset threshold levels in Table 4-1 of Rule 2201.

This project only involves VOC emissions. The following table compares the post-project facility-wide annual VOC emissions in order to determine if offsets will be required for this project.

Pollutant	SSPE2 (lb/yr)	Offset Threshold Levels (lb/yr)	Offsets Required?
VOC	> 20,000	20,000	Yes

**2. Quantity of Offsets Required**

As discussed above, the facility is an existing Major Source for VOC and the SSPE2 is greater than the offset thresholds; therefore offset calculations will be required for this project.

Per Sections 4.7.1 and 4.7.3, the quantity of offsets in pounds per year for VOC is calculated as follows for sources with an SSPE1 greater than the offset threshold levels before implementing the project being evaluated.

$$\text{Offsets Required (lb/year)} = (\Sigma[\text{PE2} - \text{BE}] + \text{ICCE}) \times \text{DOR}, \text{ for all new or modified emissions units in the project,}$$

Where,

PE2 = Post Project Potential to Emit, (lb/year)

BE = Baseline Emissions, (lb/year)

ICCE = Increase in Cargo Carrier Emissions, (lb/year)

DOR = Distance Offset Ratio, determined pursuant to Section 4.8



There are no increases in cargo carrier emissions due to this project. Therefore,

$$\text{Offsets Required (lb/year)} = \Sigma[\text{PE2} - \text{BE}] \times \text{DOR}$$

<b>VOC Offsets Required for Wine Storage Tanks without DOR</b>				
Permits	Annual PE2, per Tank (lb/yr)	Annual BE, each (lb/yr)	Offsets Required, per Tank (lb/yr)	Offsets Required for Tank Group (lb/yr)
N-1237-788 through '-795	73	0	73	584
N-1237-796 through '-815	125	0	125	2,500
N-1237-816 through '-836	154	0	154	3,234
N-1237-837 through '-860	315	0	315	7,560
N-1237-861 through '-864	514	0	514	2,056
N-1237-865 through '-880	631	0	631	10,096
N-1237-881 and '-882	657	0	657	1,314
Total Offsets Required without DOR:				27,344

In accordance with Rule 2201, Section 4.8.1, the DOR for NO<sub>x</sub> and VOC offsets for projects that trigger federal major modifications shall be 1.5:1. As shown in Section VII.C.8, this project triggers a federal major modification for VOC emissions. Therefore, the DOR will be 1.5:1 and the total amount of VOC ERCs that need to be withdrawn for this project is:

<b>VOC Offsets Required for Wine Storage Tanks with DOR</b>				
Permits	Offsets Required, per Tank (lb/yr)	DOR	Total Offsets Required, per Tank (lb/yr)	Offsets Required for Tank Group (lb/yr)
N-1237-788 through '-795	73	1.5	110	880
N-1237-796 through '-815	125	1.5	188	3,760
N-1237-816 through '-836	154	1.5	231	4,851
N-1237-837 through '-860	315	1.5	473	11,352
N-1237-861 through '-864	514	1.5	771	3,084
N-1237-865 through '-880	631	1.5	947	15,152
N-1237-881 and '-882	657	1.5	986	1,972
Total Offsets Required with DOR:				41,051

Calculating the appropriate quarterly emissions to be offset for each storage tank is as follows:

Quarterly offsets required (lb/qtr) = (Total Offsets Required per Tank lb-VOC/year) ÷ (4 quarters/year)

<b>Quarterly VOC Offsets Required for Each Wine Storage Tank</b>			
Permits	Total Offsets Required, per Tank (lb/yr)	Quarters/year	Total Offsets Required, per Tank (lb/qtr)
N-1237-788 through '-795	110	4	27.5
N-1237-796 through '-815	188	4	47
N-1237-816 through '-836	231	4	57.75
N-1237-837 through '-860	473	4	118.25
N-1237-861 through '-864	771	4	192.75
N-1237-865 through '-880	947	4	236.75
N-1237-881 and '-882	986	4	246.5

As shown in the table above, the quarterly amount of offsets required for this project, when evenly distributed to each quarter, results in fractional pounds of offsets being required each quarter. Since offsets are required to be withdrawn as whole pounds, the quarterly amounts of offsets need to be adjusted to ensure the quarterly values sum to the total annual amount of offsets required.

To adjust the quarterly amount of offsets required, the fractional amount of offsets required in each quarter will be summed and redistributed to each quarter based on the number of days in each quarter. The redistribution is based on Quarter 1 having 90 days, Quarter 2 having 91 days, and Quarters 3 and 4 having 92 days.

Therefore the appropriate quarterly emissions to be offset for each tank are as follows:

<b>Quarterly VOC Offsets Required for Each Wine Storage Tank</b>				
Permits	Offsets Required, per Tank (lb/1 <sup>st</sup> qtr)	Offsets Required, per Tank (lb/2 <sup>nd</sup> qtr)	Offsets Required, per Tank (lb/3 <sup>rd</sup> qtr)	Offsets Required, per Tank (lb/4 <sup>th</sup> qtr)
'-788 through '-795	27	27	28	28
'-796 through '-815	47	47	47	47
'-816 through '-836	57	58	58	58
'-837 through '-860	118	118	118	119
'-861 through '-864	192	193	193	193
'-865 through '-880	236	237	237	237
'-881 and '-882	246	246	247	247

And the total amount of offsets required for each tank group is as follows:

<b>Quarterly VOC Offsets Required for Each Wine Storage Tank Group</b>				
<b>Permits</b>	<b>Offsets Required, Tank Group (lb/1<sup>st</sup> qtr)</b>	<b>Offsets Required, Tank Group (lb/2<sup>nd</sup> qtr)</b>	<b>Offsets. Required, Tank Group (lb/3<sup>rd</sup> qtr)</b>	<b>Offsets Required, Tank Group (lb/4<sup>th</sup> qtr)</b>
N-1237-788 through '-795 (8 tanks in group)	216	216	224	224
N-1237-796 through '-815 (20 tanks in group)	940	940	940	940
N-1237-816 through '-836 (21 tanks in group)	1,197	1,218	1,218	1,218
N-1237-837 through '-860 (24 tanks in group)	2,832	2,832	2,832	2,856
N-1237-861 through '-864 (4 tanks in group)	768	772	772	772
N-1237-865 through '-880 (16 tanks in group)	3,776	3,792	3,792	3,792
N-1237-881 and '-882 (2 tanks in group)	492	492	494	494
<b>Total</b>	<b>10,221</b>	<b>10,262</b>	<b>10,272</b>	<b>10,296</b>

The applicant has stated that the facility plans to use their primary ERC certificate S-4727-1 to offset the increases in VOC emissions associated with this project. They have also requested to list ERC Certificates S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, or N-2-1 as secondary certificates to offset the increases in VOC emissions associated with this project. The above certificates have available quarterly VOC credits as follows<sup>(2)</sup>:

<sup>(2)</sup> The available credit values listed below only show the credits available from each certificate that are not currently reserved for other ATC projects in the District's permit database.

	<u>1<sup>st</sup> Quarter</u>	<u>2<sup>nd</sup> Quarter</u>	<u>3<sup>rd</sup> Quarter</u>	<u>4<sup>th</sup> Quarter</u>
ERC #S-4727-1	47,937	47,937	47,937	47,936
ERC #S-4601-1	2,107	2,106	0	912
ERC #S-4354-1	15,238	15,294	7,249	7,260
ERC #S-4442-1	6,862	6,852	0	0
ERC #S-4381-1	827	771	816	805
ERC #S-4480-1	2,107	2,106	0	912
ERC #S-4414-1	14,762	14,720	2,026	365
ERC #C-1071-1	23	22	21	20
ERC #C-1229-1 <sup>(3)</sup>	0	0	0	0
ERC #N-2-1	9	9	26	28

As seen above, the facility has sufficient credits to fully offset the quarterly VOC emissions increases associated with this project.

**Proposed Rule 2201 (offset) Conditions:**

The following typical condition will be included on each ATC for each tank grouping:

N-1237-788 through '-795 (50,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-796 through '-815 (85,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-816 through '-836 (105,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

<sup>(3)</sup> The full amount of ERCs listed under this certificate are currently reserved by E & J Gallo Winery for other ATC projects within the District. However, E & J Gallo has indicated that some of the tanks under those previous ATC projects that the certificate is reserved may not be constructed. Therefore, those credits would no longer be needed for the previous ATC project(s) and could become available for use by the new tanks being authorized under this project. In addition, as shown above, the other ERC certificates being used to cover the offsets required by this project have enough credits available to fully satisfy the offset requirements of this project. Therefore, even though all of the ERCs under this certificate are currently reserved, the District will include ERC Certificate C-1229-1 as part of this ATC project approval.

N-1237-837 through '-860 (215,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-861 through '-864 (350,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-865 through '-880 (430,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

N-1237-881 and '-882 (640,000 gallon storage tanks):

- Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 246 lb, 2nd quarter - 246 lb, 3rd quarter - 247 lb, and fourth quarter - 247 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201]

All Storage Tank Permits:

- ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201]

**C. Public Notification**

**1. Applicability**

Public noticing is required for:

- a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications,
- b. Any new emissions unit with a Potential to Emit greater than 100 pounds during any one day for any one pollutant,
- c. Any project which results in the offset thresholds being surpassed, and/or
- d. Any project with an SSPE of greater than 20,000 lb/year for any pollutant.
- e. Any project which results in a Title V significant permit modification

**a. New Major Sources, Federal Major Modifications, and SB 288 Major Modifications**

New Major Sources are new facilities, which are also Major Sources. Since this is not a new facility, public noticing is not required for this project for New Major Source purposes.

As demonstrated in Sections VII.C.7 and VII.C.8, this project triggers a Federal Major Modification. Therefore, public noticing for Federal Major Modification purposes is required.

**b. PE > 100 lb/day**

Applications which include a new emissions unit with a PE greater than 100 pounds during any one day for any pollutant will trigger public noticing requirements. As seen in Section VII.C.2 above, this project does include new emissions units (N-1237-861 through '882) which have daily emissions greater than 100 lb/day for VOC emissions, therefore public noticing for PE > 100 lb/day purposes is required.

**c. Offset Threshold**

Public notification is required if the Pre-Project Stationary Source Potential to Emit (SSPE1) is increased from a level below the offset threshold to a level exceeding the emissions offset threshold, for any pollutant.

The following table compares the SSPE1 with the SSPE2 in order to determine if any offset thresholds have been surpassed with this project.

<b>Pollutant</b>	<b>SSPE1 (lb/year)</b>	<b>SSPE2 (lb/year)</b>	<b>Offset Threshold</b>	<b>Public Notice Required?</b>
VOC	>20,000	>20,000	20,000 lb/year	No

As detailed above, there were no thresholds surpassed with this project; therefore public noticing is not required for offset purposes.

**d. SSIPE > 20,000 lb/year**

Public notification is required for any permitting action that results in a Stationary Source Increase in Permitted Emissions (SSIPE) of more than 20,000 lb/year of any affected pollutant. According to District policy, the SSIPE is calculated as the Post Project Stationary Source Potential to Emit (SSPE2) minus the Pre-Project Stationary Source Potential to Emit (SSPE1), i.e.  $SSIPE = SSPE2 - SSPE1$ . The values for SSPE2 and SSPE1 are calculated according to Rule 2201, Sections 4.9 and 4.10, respectively. The SSIPE is compared to the SSIPE Public Notice thresholds in the following table:

<b>Stationary Source Increase in Permitted Emissions [SSIPE] – Public Notice</b>					
Pollutant	$\Sigma PE2$ (lb/year)	$\Sigma PE1$ (lb/year)	SSIPE (lb/year)	SSIPE Public Notice Threshold	Public Notice Required?
VOC	>20,000 + 27,344	>20,000	27,344	20,000 lb/year	Yes

As demonstrated above, the SSIPE for VOC was greater than 20,000 lb/year; therefore public noticing for SSIPE purposes is required.

**e. Title V Significant Permit Modification**

As shown in the Discussion of Rule 2520 below, this project constitutes a Title V significant modification. Therefore, public noticing for Title V significant modifications is required for this project.

**2. Public Notice Action**

As discussed above, public noticing is required for this project for triggering a federal Major Modification, VOC emissions in excess of 100 lb/day for several new emission units, SSIPE of greater than 20,000 lb/year, and a Title V Significant Permit Modification. Therefore, public notice documents will be submitted to the California Air Resources Board (CARB) and a public notice will be published in the local newspaper of general circulation prior to the issuance of the ATC's for these winery tank modifications.

**D. Daily Emission Limits (DELs)**

DELs and other enforceable conditions are required by Rule 2201 to restrict a unit's maximum daily emissions, to a level at or below the emissions associated with the maximum design capacity. The DEL must be contained in the latest ATC and contained in or enforced by the latest PTO and enforceable, in a practicable manner, on a daily basis. DELs are also required to enforce the applicability of BACT.

For all wine storage tank emissions units affected by this project, the DEL is stated in the form of a daily limit on tank throughput and a maximum ethanol content for wine stored in the tank.

**Proposed Rule 2201 (DEL) Conditions:**

For the proposed wine storage tank emissions units in this project, the DEL is enforced with the following conditions:

- The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201]
- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694]
- If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201]

The following typical daily throughput condition will be included on each group of wine storage tank ATCs.

**N-1237-788 through '-795 (50,000 gallon storage tanks):**

- The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201]

**N-1237-796 through '-815 (85,000 gallon storage tanks):**

- The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201]

**N-1237-816 through '-836 (105,000 gallon storage tanks):**

- The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201]

**N-1237-837 through '-860 (215,000 gallon storage tanks):**

- The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201]



N-1237-861 through '-864 (350,000 gallon storage tanks):

- The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201]

N-1237-865 through '-880 (430,000 gallon storage tanks):

- The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201]

N-1237-881 and '-882 (640,000 gallon storage tanks):

- The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201]

In addition, in order for the applicant to be able to demonstrate ongoing compliance with the proposed annual throughput limit for each tank, the following condition will be included on each group of wine storage tank ATCs:

N-1237-788 through '-795 (50,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-796 through '-815 (85,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-816 through '-836 (105,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-837 through '-860 (215,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-861 through '-864 (350,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201]

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-865 through '-880 (430,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201]

N-1237-881 and '-882 (640,000 gallon storage tanks):

- The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 657 lb-VOC/year (equivalent to 4,480,000 gallons of wine throughput per year). [District Rule 2201]

## **E. Compliance Assurance**

### **1. Source Testing**

Pursuant to District Policy APR 1705, source testing is not required to demonstrate compliance with Rule 2201.

### **2. Monitoring**

No monitoring is required to demonstrate compliance with Rule 2201.

### **3. Recordkeeping**

Recordkeeping is required to demonstrate compliance with the offset, public notification and daily emission limit requirements of Rule 2201. The following condition(s) are listed on the permit to operate:

- The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rule 2201]
- Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201]
- Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201]
- All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

#### **4. Reporting**

No reporting is required to demonstrate compliance with Rule 2201.

#### **F. Ambient Air Quality Analysis (AAQA)**

Section 4.14.1 of this Rule requires that an ambient air quality analysis (AAQA) be conducted for the purpose of determining whether a new or modified Stationary Source will cause or make worse a violation of an air quality standard. However, since this project only involves VOC emissions and no ambient air quality standard exists for VOC, an AAQA is not required for this project.

#### **G. Compliance Certification**

Section 4.15.2 of this Rule requires the owner of a new Major Source or a source undergoing a Federal Major Modification to demonstrate to the satisfaction of the District that all other Major Sources owned by such person and operating in California are in compliance or are on a schedule for compliance with all applicable emission limitations and standards. As discussed in Sections VIII-Rule 2201-C.1.a and VIII-Rule 2201-C.1.b, this project does constitute a Federal Major Modification, therefore this requirement is applicable. E & J Gallo Winery's statewide compliance certification is included in Appendix D.

#### **H. Alternate Siting Analysis**

District Rule 2201, Section 4.15.1 requires an alternative siting analysis for any project which constitutes a New Major Source or a Federal Major Modification. As shown above, this project triggers a Federal Major Modification. Therefore, an alternative siting analysis must be performed.

In addition to winery tanks, the operation of a winery requires a large number support equipment, services and structures such as raw material receiving stations, crushers, piping, filtering and refrigeration units, warehouses, laboratories, bottling and shipping facilities, and administration buildings.

Since the current project involves the installation of 95 new wine storage tanks, it represents only a minimal increase in the winery's total tank volume and no change to any other facets of the operation, the existing site will result in the least possible impact from the project. Alternative sites would involve the relocation and/or construction of various support structures and facilities on a much greater scale, and would therefore result in a much greater impact.

## **Rule 2410 Prevention of Significant Deterioration**

The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant.

As shown in Section VII. C. 9. above, this project does not result in a new PSD major source or PSD major modification. Therefore, this project is not subject to the requirements of Rule 2410 and no further discussion is required.

## **Rule 2520 Federally Mandated Operating Permits**

This facility is subject to this Rule, and has received their Title V Operating Permit. Section 3.29 defines a significant permit modification as a “permit amendment that does not qualify as a minor permit modification or administrative amendment.”

Section 3.20.5 states that a minor permit modification is a permit modification that is not a SB 288 major modification, as defined in Rule 2201<sup>(4)</sup>. As discussed above, this project triggers a SB 288 major modification. As a result, the proposed project constitutes a Significant Modification to the Title V Permit pursuant to Section 3.29.

As discussed above, the facility has applied for a Certificate of Conformity (COC). Therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility may construct/operate under the ATCs upon submittal of the Title V administrative amendment application. The following conditions will be included on each ATC and will assure compliance with the requirements of Rule 2520:

- This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District NSR Rule]
- Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4]

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<sup>(4)</sup> District Rule 2520, Section 3.20.5 actually states that a project shall not constitute a Title I modification, as defined in Rule 2201. In a previous version of Rule 2201, the term Title I modification was replaced with SB 288 Major Modification. However, at that time, the terminology in Rule 2520 was not updated to reflect the new Rule 2201 terms. Therefore, even though Rule 2520 references that a project triggering a Title I modification does not qualify as a Title V minor modification, it will be replaced with the term SB 288 Major Modification for the purposes of this project.

### **Rule 4001 New Source Performance Standards (NSPS)**

This rule incorporates NSPS from Part 60, Chapter 1, Title 40, Code of Federal Regulations (CFR); and applies to all new sources of air pollution and modifications of existing sources of air pollution listed in 40 CFR Part 60. However, no subparts of 40 CFR Part 60 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

### **Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAPs)**

This rule incorporates NESHAPs from Part 61, Chapter I, Subchapter C, Title 40, CFR and the NESHAPs from Part 63, Chapter I, Subchapter C, Title 40, CFR; and applies to all sources of hazardous air pollution listed in 40 CFR Part 61 or 40 CFR Part 63. However, no subparts of 40 CFR Part 61 or 40 CFR Part 63 apply to wine fermentation and storage tank operations. Therefore, no further discussion is required.

### **Rule 4101 Visible Emissions**

Rule 4101 states that no person shall discharge into the atmosphere emissions of any air contaminant aggregating more than 3 minutes in any hour which is as dark as or darker than Ringelmann 1 (or 20% opacity). Visible emissions are not expected as a result of these wine storage operations. Therefore, compliance with this rule is expected. Compliance with the requirements of this rule is assured by the following condition, currently included as condition 22 on E & J Gallo Winery's facility wide permit N-1237-0-2:

- No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (2/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101]

### **Rule 4102 Nuisance**

Section 4.0 prohibits discharge of air contaminants, which could cause injury, detriment, nuisance or annoyance to the public. Public nuisance conditions are not expected as a result of these operations, provided the equipment is well maintained. Therefore, compliance with this rule is expected. Compliance with the requirements of this rule is ensured by the following condition, currently included as condition 41 on E & J Gallo Winery's facility wide permit N-1237-0-2:

- No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

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## **California Health & Safety Code 41700 (Health Risk Assessment)**

District Policy APR 1905 - Risk Management Policy for Permitting New and Modified Sources specifies that for an increase in emissions associated with a proposed new source or modification, the District perform an analysis to determine the possible impact to the nearest resident or worksite.

VOC emissions, as ethanol, is the only pollutant generated by winery fermentation and storage tanks. Ethanol is not a HAP as defined by Section 44321 of the California Health and Safety Code. Therefore, there are no increases in HAP emissions associated with any emission units in this project and a health risk assessment is not necessary. No further risk analysis is required.

### **Rule 4623 Storage of Organic Liquids**

The purpose of this rule is to limit volatile organic compound (VOC) emissions from the storage of organic liquids. This rule applies to any tank with a capacity of 1,100 gallons or greater in which any organic liquid is placed, held, or stored.

However, Section 4.1.4 provides an exemption for tanks used to store fermentation products, byproducts or spirits. The tanks in this project are used solely for the fermentation and storage of wine.

Therefore, the requirements of this rule are not applicable to any of the winery tanks within this project.

### **Rule 4694 Wine Fermentation and Storage Tanks**

The purpose of this rule is to reduce emissions of volatile organic compounds (VOC) from the fermentation and bulk storage of wine, or achieve equivalent reductions from alternative emission sources. This rule is applicable to all facilities with fermentation emissions in excess of 10 tons-VOC/year. The storage tank provisions of this rule apply to all tanks with capacity in excess of 5,000 gallons.

Section 5.1 requires the winery operator achieve Required Annual Emissions Reductions (RAER) equal to at least 35% of the winery's Baseline Fermentation Emissions (BFE). Since the proposed tanks will be used for storage only, this section is not applicable; therefore, no further discussion is required.

Section 5.2 places specific restrictions on wine storage tanks with 5,000 gallons or more in capacity when such tanks are not constructed of wood or concrete. Section 5.2.1 requires these tanks to be equipped and operated with a pressure-vacuum relief valve meeting all of the following requirements:

- The pressure-vacuum relief valve shall operate within 10% of the maximum allowable working pressure of the tank,
- The pressure-vacuum relief valve shall operate in accordance with the manufacturer's instructions,

- The pressure-vacuum relief valve shall be permanently labeled with the operating pressure settings, and
- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21.

The following conditions will be placed on the permits for stainless steel tanks  $\geq 5,000$  gallons in capacity and used for storage to assure compliance with the requirements of Section 5.2.1:

- This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694]
- The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694]

Section 5.2.2 requires that the temperature of the stored wine be maintained at or below 75° F. The following condition will be placed on the permits for stainless steel tanks  $\geq 5,000$  gallons in capacity and used for storage (permit units C-447-269-0 through -327-0) to ensure compliance with the requirements of Section 5.2.2:

- The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694]

Every three years, Section 6.1 and 6.2 require facilities with fermentation operations to submit a Three-Year Compliance Plan and a Three-Year Compliance Plan Verification respectively. The proposed tanks in this project are for wine storage only, and since these sections are not applicable to wine storage operations, no further discussion is required.

Section 6.4 requires that records required by this rule be maintained, retained on-site for a minimum of five years, and made available to the APCO upon request. The following conditions will be placed on all permits to ensure compliance:

- All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694]

Section 6.4.1 requires that records be kept for each fermentation batch. These tanks are not fermenters; therefore this section does not apply.

Section 6.4.2 requires that weekly records be kept of wine volume and temperature in each storage tank. The following conditions will be placed on the permit for each storage tank to ensure compliance with the requirements of Section 6.4.2:

- The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694]

Section 6.4.3 requires that all monitoring be performed for any CERs as identified in the facility's Three-Year Compliance Plan and that the records of all monitoring be maintained. Since this requirement is for operators mitigation fermentation emission and the proposed tanks are only for wine storage operations, this section is not applicable to wine tanks in this project. Therefore, no further discussion is required.

#### **California Health & Safety Code 42301.6 (School Notice)**

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

#### **California Environmental Quality Act (CEQA)**

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
- Identify the ways that environmental damage can be avoided or significantly reduced.
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The County of Merced (County) is the public agency having principal responsibility for approving the project. As such, the County served as the Lead Agency (CCR §15367). In approving the project, the Lead Agency prepared and adopted a Mitigated Negative Declaration. The Lead agency filed a Notice of Determination, stating that the environmental document was adopted pursuant to the provisions of CEQA and concluding that the project would not have a significant effect on the environment.



The District is a Responsible Agency for the project because of its discretionary approval power over the project via its Permits Rule (Rule 2010) and New Source Review Rule (Rule 2201), (CCR §15381). As a Responsible Agency the District complies with CEQA by considering the environmental document prepared by the Lead Agency, and by reaching its own conclusion on whether and how to approve the project (CCR §15096).

The District has considered the Lead Agency's environmental document. Furthermore, the District has conducted an engineering evaluation of the project, this document, which demonstrates that Stationary Source emissions from the project would be below the District's thresholds of significance for criteria pollutants. Thus, the District finds that through a combination of project design elements, compliance with applicable District rules and regulations, and compliance with District air permit conditions, project specific stationary source emissions would be reduced to lessen the impacts on air quality. The District does not have authority over any of the other project impacts and has, therefore, determined that no additional findings are required (CEQA Guidelines §15096(h)).

#### Indemnification Agreement/Letter of Credit Determination

According to District Policy APR 2010 (CEQA Implementation Policy), when the District is the Lead or Responsible Agency for CEQA purposes, an indemnification agreement and/or letter of credit may be required. The decision to require an indemnity agreement and/or letter of credit are based on a case-by-case analysis of a particular project's potential for litigation risk, which in turn may be based on a project's potential to generate public concern, its potential for significant impacts, and the project proponent's ability to pay for the costs of litigation without a letter of credit, among other factors.

The proposed project is a potential operation of public concern in the Valley (fermentation tanks), and triggers Best Available Control Technology (BACT). Therefore, the District determined that an Indemnification Agreement and Letter of Credit for the ATC project is required.

#### **IX. Recommendation**

Compliance with all applicable rules and regulations is expected. Pending a successful NSR Public Noticing period, issue Authorities to Construct N-1237-788-0 through '882 subject to the permit conditions on the attached draft Authorities to Construct in Appendix F.

## X. Billing Information

Annual Permit Fees			
Permit Number	Fee Schedule	Fee Description	Annual Fee
N-1237-788 through '-795	3020-05-D	50,000 gallons	\$194
N-1237-796 through '-815	3020-05-D	85,000 gallons	\$194
N-1237-816 through '-836	3020-05-E	105,000 gallons	\$258
N-1237-837 through '-860	3020-05-E	215,000 gallons	\$258
N-1237-861 through '-864	3020-05-E	350,000 gallons	\$258
N-1237-865 through '-880	3020-05-E	430,000 gallons	\$258
N-1237-881 and '-882	3020-05-F	640,000 gallons	\$316

### Appendices:

- A: Tanks 4.0 Calculations
- B: FYI-295 – Modeling of Emissions for Wine and Distilled Spirits Storage Tanks Using Tanks 4.0d
- C: BACT Guideline 5.4.13 and Top Down VOC BACT Analysis for Wine Storage Tanks
- D: E & J Gallo Winery Statewide Compliance Certification
- E: Quarterly Net Emissions Change (QNEC) Calculations
- F: Draft ATC's

## **APPENDIX A**

### TANKS 4.0 Calculations

# Daily Calculations

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 50k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	14.75
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	50,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	1,550,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.41

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 50k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract	Vapor Mass Fract	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = .58508 VP80 = .81889

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 50k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month	January	February	March	April	May	June	July	August	September	October	November	December
<b>Standing Losses (lb)</b>							0.0000					
Vapor Space Volume (cu ft)							170.8732					
Vapor Density (lb/cu ft)							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9589					
<b>Tank Vapor Space Volume:</b>							170.8732					
Vapor Space Volume (cu ft):							14.7500					
Tank Diameter (ft):							1.0000					
Vapor Space Outage (ft):							40.0000					
Tank Shell Height (ft):							40.0000					
Average Liquid Height (ft):							1.0000					
Roof Outage (ft):												
<b>Roof Outage (Cone Roof)</b>							1.0000					
Roof Outage (ft):							3.0000					
Roof Height (ft):							0.4100					
Roof Slope (ft/ft):							7.3750					
Shell Radius (ft):												
<b>Vapor Density</b>							0.0044					
Vapor Density (lb/cu ft):							30.3355					
Vapor Molecular Weight (lb/lb-mole):												
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp (deg. R):							540.6700					
Daily Average Ambient Temp (deg. F):							81.8500					
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):							10.731					
Liquid Bulk Temperature (deg. R):							540.6700					
Tank Paint Solar Absorptance (Shell):							0.1700					
Tank Paint Solar Absorptance (Roof):							0.1700					
Daily Total Solar Insulation Factor (Btu/sqft day):							2,551.4853					
<b>Vapor Space Expansion Factor</b>							0.0000					
Vapor Space Expansion Factor (deg. R):							0.0000					
Daily Vapor Temperature Range (deg. R):							0.0000					
Daily Vapor Pressure Range (psia):							0.0000					
Breather Vent Press. Setting Range (psia):												
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp (deg. R):							540.6700					
Daily Min. Liquid Surface Temp (deg. R):							540.6700					
Daily Max. Liquid Surface Temp (deg. R):							540.6700					
Daily Ambient Temp. Range (deg. R):							33.5000					
<b>Vented Vapor Saturation Factor</b>							0.9589					
Vented Vapor Saturation Factor:												
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Space Outage (ft):							1.0000					
<b>Working Losses (lb):</b>							951.6359					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Net Throughput (gal/mo.):							1,550,000.0000					
Annual Turnover:							31.0000					
Turnover Factor:							1.0000					
Maximum Liquid Volume (gal):							50,000.0000					
Maximum Liquid Height (ft):							40.0000					
Tank Diameter (ft):							14.7500					
Working Loss Product Factor:							1.0000					
<b>Total Losses (lb):</b>							951.6359					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 50k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 23.9 % Vol Alcohol	951.64	0.00	951.64



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 85k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	19.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	85,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	2,635,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.32

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 85k Tanks (Daily Emissions - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1 VP70 = .58508 VP80 = .81869

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 85k Tanks (Daily Emissions - Vertical Fixed Roof Tank**  
**Livingston, California**

Month	January	February	March	April	May	June	July	August	September	October	November	December
Standing Losses (lb)							0.0000					
Vapor Space Volume (cu ft):							283.5287					
Vapor Density (lb/cu ft)							0.0044					
Vapor Space Expansion Factor							0.0000					
Vented Vapor Saturation Factor							0.9569					
Tank Vapor Space Volume							283.5287					
Vapor Space Volume (cu ft):							19.0000					
Tank Diameter (ft)							1.0000					
Vapor Space Outage (ft)							40.0000					
Tank Shell Height (ft)							40.0000					
Average Liquid Height (ft)							1.0000					
Roof Outage (ft):												
Roof Outage (Cone Roof)												
Roof Outage (ft)							1.0000					
Roof Height (ft):							3.0000					
Roof Slope (ft/ft):							0.3200					
Shell Radius (ft):							9.5000					
Vapor Density							0.0044					
Vapor Density (lb/cu ft):							30.3355					
Vapor Molecular Weight (lb/lb-mole):												
Vapor Pressure at Daily Average Liquid							0.8500					
Surface Temperature (psia):							540.6700					
Daily Avg. Liquid Surface Temp (deg. R):							81.6500					
Daily Average Ambient Temp (deg. F):												
Ideal Gas Constant R							10.731					
(psia cu ft / (lb-mol-deg R)):							540.6700					
Liquid Bulk Temperature (deg. R):							0.1700					
Tank Paint Solar Absorptance (Shell):							0.1700					
Tank Paint Solar Absorptance (Roof):												
Daily Total Solar Insulation							2.5514853					
Factor (Btu/sqft day):												
Vapor Space Expansion Factor							0.0000					
Vapor Space Expansion Factor (deg. R):							0.0000					
Daily Vapor Temperature Range (deg. R):							0.0000					
Daily Vapor Pressure Range (psia)							0.0000					
Breather Vent Press. Setting Range (psia):							0.8500					
Vapor Pressure at Daily Average Liquid							0.8500					
Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid							0.8500					
Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid							540.6700					
Surface Temperature (psia):							540.6700					
Daily Avg. Liquid Surface Temp (deg. R):							540.6700					
Daily Min. Liquid Surface Temp (deg. R):							33.5000					
Daily Max. Liquid Surface Temp (deg. R):												
Daily Ambient Temp. Range (deg. R):												
Vented Vapor Saturation Factor							0.9569					
Vented Vapor Saturation Factor												
Vapor Pressure at Daily Average Liquid:							0.8500					
Surface Temperature (psia)							1.0000					
Vapor Space Outage (ft):												
Working Losses (lb):							1,617.7810					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid							0.8500					
Surface Temperature (psia)							2,635.0000					
Net Throughput (gal/mo.):							31.0000					
Annual Turnovers:							1.0000					
Turnover Factor							85,000.0000					
Maximum Liquid Volume (gal):							40.0000					
Maximum Liquid Height (ft)							19.0000					
Tank Diameter (ft)							1.0000					
Working Loss Product Factor												
Total Losses (lb)							1,617.7810					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 85k Tanks (Daily Emissions - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 23.9 % Vol Alcohol	1,617.78	0.00	1,617.78

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 105k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	21.08
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	105,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	3,255,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.28

**Breather Vent Settings**

Vacuum Settings (psig)	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 105k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract	Vapor Mass Fract	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.9500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = 58508 VP80 = 81869

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 105k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month:	January	February	March	April	May	June	July	August	September	October	November	December
<b>Standing Losses (lb):</b>							0.0000					
Vapor Space Volume (cu ft):							349.0045					
Vapor Density (lb/cu ft):							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9569					
<b>Tank Vapor Space Volume:</b>												
Vapor Space Volume (cu ft):							349.0046					
Tank Diameter (ft):							21.0800					
Vapor Space Outage (ft):							1.0000					
Tank Shell Height (ft):							40.0000					
Average Liquid Height (ft):							40.0000					
Roof Outage (ft):							1.0000					
<b>Roof Outage (Cone Roof):</b>												
Roof Outage (ft):							1.0000					
Roof Height (ft):							3.0000					
Roof Slope (ft/ft):							0.2800					
Shell Radius (ft):							10.5400					
<b>Vapor Density</b>												
Vapor Density (lb/cu ft):							0.0044					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540.6700					
Daily Average Ambient Temp. (deg. F):							81.6500					
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):							10.731					
Liquid Bulk Temperature (deg. R):							540.6700					
Tank Paint Solar Absorptance (Shell):							0.1700					
Tank Paint Solar Absorptance (Roof):							0.1700					
Daily Total Solar Insulation Factor (Btu/sqft day):							2,551.4853					
<b>Vapor Space Expansion Factor</b>												
Vapor Space Expansion Factor:							0.0000					
Daily Vapor Temperature Range (deg. R):							0.0000					
Daily Vapor Pressure Range (psia):							0.0000					
Breather Vent Press. Setting Range (psia):							0.0000					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540.6700					
Daily Min. Liquid Surface Temp. (deg. R):							540.6700					
Daily Max. Liquid Surface Temp. (deg. R):							540.6700					
Daily Ambient Temp. Range (deg. R):							33.5000					
<b>Vented Vapor Saturation Factor</b>												
Vented Vapor Saturation Factor:							0.9569					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Space Outage (ft):							1.0000					
<b>Working Losses (lb):</b>							1,998.4354					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Net Throughput (gal/mo.):							3,255,000.0000					
Annual Turnovers:							31.0000					
Turnover Factor:							1.0000					
Maximum Liquid Volume (gal):							105,000.0000					
Maximum Liquid Height (ft):							40.0000					
Tank Diameter (ft):							21.0800					
Working Loss Product Factor:							1.0000					
<b>Total Losses (lb):</b>							1,998.4354					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 105k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Wine 23.9 % Vol Alcohol	1,998.44	0.00	1,998.44



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 215k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	30.16
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	215,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	6,665,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.20

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 215k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = 58508 VP80 = 81869

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 215k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Standing Losses (lb):							0.0000					
Vapor Space Volume (cu ft):							714.4183					
Vapor Density (lb/cu ft):							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9569					
Tank Vapor Space Volume:							714.4183					
Vapor Space Volume (cu ft):							30.1600					
Tank Diameter (ft):							1.0000					
Vapor Space Outage (ft):							40.0000					
Tank Shell Height (ft):							40.0000					
Average Liquid Height (ft):							1.0000					
Roof Outage (ft):							1.0000					
Roof Outage (Cone Roof):							3.0000					
Roof Height (ft):							0.2000					
Roof Slope (ft/ft):							15.0800					
Shell Radius (ft):												
Vapor Density:							0.0044					
Vapor Density (lb/cu ft):							30.3355					
Vapor Molecular Weight (lb/lb-mole):												
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp (deg R):							540.6700					
Daily Average Ambient Temp (deg F):							81.9500					
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):							10.731					
Liquid Bulk Temperature (deg R):							540.6700					
Tank Paint Solar Absorptance (Shell):							0.1700					
Tank Paint Solar Absorptance (Roof):							0.1700					
Daily Total Solar Insulation Factor (BTU/sq ft day):							2,551.4853					
Vapor Space Expansion Factor:							0.0000					
Vapor Space Expansion Factor (deg R):							0.0000					
Daily Vapor Temperature Range (deg R):							0.0000					
Daily Vapor Pressure Range (psia):							0.0000					
Breather Vent Press. Setting Range (psia):							0.0000					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp (deg R):							540.6700					
Daily Min. Liquid Surface Temp (deg R):							540.6700					
Daily Max. Liquid Surface Temp (deg R):							540.6700					
Daily Ambient Temp Range (deg R):							33.5000					
Vented Vapor Saturation Factor:							0.9569					
Vented Vapor Saturation Factor (deg R):							0.8500					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							1.0000					
Vapor Space Outage (ft):												
Working Losses (lb):							4,092.0344					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Net Throughput (gal/mo.):							6,665,000.0000					
Annual Turnovers:							31.0000					
Turnover Factor:							1.0000					
Maximum Liquid Volume (gal):							215,000.0000					
Maximum Liquid Height (ft):							40.0000					
Tank Diameter (ft):							30.1600					
Working Loss Product Factor:							1.0000					
Total Losses (lb):							4,092.0344					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 215k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 23.9 % Vol Alcohol	4,092.03	0.00	4,092.03

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 350k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	39.08
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	350,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	10,850,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.15

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 350k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = 58508 VP80 = 81859

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 350k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month:	January	February	March	April	May	June	July	August	September	October	November	December
<b>Standing Losses (lb):</b>							0.0000					
Vapor Space Volume (cu ft):							1,199.4965					
Vapor Density (lb/cu ft):							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9569					
<b>Tank Vapor Space Volume:</b>							1,199.4965					
Vapor Space Volume (cu ft):							39.0800					
Tank Diameter (ft):							1.0000					
Vapor Space Outage (ft):							40.0000					
Tank Shell Height (ft):							40.0000					
Average Liquid Height (ft):							1.0000					
Roof Outage (ft):							1.0000					
<b>Roof Outage (Cone Roof)</b>							3.0000					
Roof Outage (ft):							0.1500					
Roof Height (ft):							19.5400					
Roof Slope (ft/ft):												
Shell Radius (ft):												
<b>Vapor Density</b>							0.0044					
Vapor Density (lb/cu ft):							30.3355					
Vapor Molecular Weight (lb/lb-mole):							0.8500					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							540.6700					
Daily Avg. Liquid Surface Temp. (deg. R):							81.8500					
Daily Average Ambient Temp. (deg. F):							10.731					
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):							540.6700					
Liquid Bulk Temperature (deg. R):							0.1700					
Tank Paint Solar Absorptance (Shell)							0.1700					
Tank Paint Solar Absorptance (Roof)							2,551.4853					
Daily Total Solar Insolation Factor (Btu/sqft day):												
<b>Vapor Space Expansion Factor</b>							0.0000					
Vapor Space Expansion Factor							0.0000					
Daily Vapor Temperature Range (deg. R):							0.0000					
Daily Vapor Pressure Range (psia):							0.0000					
Breather Vent Press. Setting Range (psia):							0.8500					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							540.6700					
Daily Avg. Liquid Surface Temp. (deg. R):							540.6700					
Daily Min. Liquid Surface Temp. (deg. R):							540.6700					
Daily Max. Liquid Surface Temp. (deg. R):							33.5000					
Daily Ambient Temp. Range (deg. R):												
<b>Vented Vapor Saturation Factor</b>							0.9569					
Vented Vapor Saturation Factor:							0.8500					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							1.0000					
Vapor Space Outage (ft)												
<b>Working Losses (lb):</b>							8,661.4514					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Net Throughput (gal/mo.):							10,850,000.0000					
Annual Turnovers:							31.0000					
Turnover Factor:							1.0000					
Maximum Liquid Volume (gal):							350,000.0000					
Maximum Liquid Height (ft):							40.0000					
Tank Diameter (ft):							39.0800					
Working Loss Product Factor:							1.0000					
<b>Total Losses (lb):</b>							6,661.4514					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 350k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 23.9 % Vol Alcohol	6,661.45	0.00	6,661.45



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 430k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	42.75
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	430,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	13,330,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.14

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 430k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.9 % Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = 58508 VP80 = 61869

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 430k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month	January	February	March	April	May	June	July	August	September	October	November	December
<b>Standing Losses (lb)</b>							0.0000					
Vapor Space Volume (cu ft):							1,435,384.2					
Vapor Density (lb/cu ft):							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9569					
<b>Tank Vapor Space Volume</b>							1,435,384.2					
Vapor Space Volume (cu ft):							42,7500					
Tank Diameter (ft):							1,0000					
Vapor Space Outage (ft):							40,0000					
Tank Shell Height (ft):							40,0000					
Average Liquid Height (ft):							1,0000					
Roof Outage (ft):												
<b>Roof Outage (Cone Roof)</b>							1,0000					
Roof Outage (ft):							3,0000					
Roof Height (ft):							0,1400					
Roof Slope (ft/ft):							21,3750					
Shell Radius (ft):												
<b>Vapor Density</b>							0,0044					
Vapor Density (lb/cu ft):							30,3355					
Vapor Molecular Weight (lb/lb-mole):												
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0,8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540,6700					
Daily Average Ambient Temp. (deg. F):							81,8500					
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R)):							10,731					
Liquid Bulk Temperature (deg. R):							540,6700					
Tank Paint Solar Absorptance (Shell):							0,1700					
Tank Paint Solar Absorptance (Roof):							0,1700					
Daily Total Solar Insulation Factor (Btu/sqft day):							2,551,4853					
<b>Vapor Space Expansion Factor</b>							0,0000					
Vapor Space Expansion Factor:							0,0000					
Daily Vapor Temperature Range (deg. R):							0,0000					
Daily Vapor Pressure Range (psia):							0,0000					
Breather Vent Press. Setting Range (psia):							0,0000					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0,8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0,8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							0,8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540,6700					
Daily Min. Liquid Surface Temp. (deg. R):							540,6700					
Daily Max. Liquid Surface Temp. (deg. R):							540,6700					
Daily Ambient Temp. Range (deg. R):							33,5000					
<b>Vented Vapor Saturation Factor</b>							0,9569					
Vented Vapor Saturation Factor:							0,9569					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0,8500					
Vapor Space Outage (ft):							1,0000					
<b>Working Losses (lb)</b>							8,184,0688					
Vapor Molecular Weight (lb/lb-mole):							30,3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0,8500					
Nel Throughput (gal/mo.):							13,330,000,0000					
Annual Turnovers:							31,0000					
Turnover Factor:							1,0000					
Maximum Liquid Volume (gal):							430,000,0000					
Maximum Liquid Height (ft):							40,0000					
Tank Diameter (ft):							42,7500					
Working Loss Product Factor:							1,0000					
<b>Total Losses (lb):</b>							8,184,0688					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 430k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Wine 23.9 % Vol Alcohol	8,184.07	0.00	8,184.07

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 640k Tanks (Daily Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	42.00
Diameter (ft):	50.92
Liquid Height (ft) :	42.00
Avg. Liquid Height (ft):	42.00
Volume (gallons):	640,000.00
Turnovers:	31.00
Net Throughput(gal/yr):	19,840,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.12

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 640k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 23.1% Vol Alcohol	Jul	81.00	81.00	81.00	81.00	0.8500	0.8500	0.8500	30.3355			20.45	Option 1: VP70 = 58508 VP80 = 81869

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 640k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Standing Losses (lb):							0.0000					
Vapor Space Volume (cu ft):							2,036.4168					
Vapor Density (lb/cu ft):							0.0044					
Vapor Space Expansion Factor:							0.0000					
Vented Vapor Saturation Factor:							0.9569					
Tank Vapor Space Volume												
Vapor Space Volume (cu ft):							2,036.4168					
Tank Diameter (ft):							50.9200					
Vapor Space Outage (ft):							1.0000					
Tank Shell Height (ft):							42.0000					
Average Liquid Height (ft):							42.0000					
Roof Outage (ft):							1.0000					
Roof Outage (Cone Roof)												
Roof Outage (ft):							1.0000					
Roof Height (ft):							3.0000					
Roof Slope (ft/ft):							0.1200					
Shell Radius (ft):							25.4600					
Vapor Density												
Vapor Density (lb/cu ft):							0.0044					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540.6700					
Daily Average Ambient Temp. (deg. F):							81.8500					
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):							10.731					
Liquid Bulk Temperature (deg. R):							540.6700					
Tank Paint Solar Absorptance (Shell):							0.1700					
Tank Paint Solar Absorptance (Roof):							0.1700					
Daily Total Solar Insulation Factor (Btu/eqft day):							2,551.4853					
Vapor Space Expansion Factor												
Vapor Space Expansion Factor:							0.0000					
Daily Vapor Temperature Range (deg. R):							0.0000					
Daily Vapor Pressure Range (psia):							0.0000					
Breather Vent Press. Setting Range (psia):							0.0000					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):							0.8500					
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):							0.8500					
Daily Avg. Liquid Surface Temp. (deg. R):							540.6700					
Daily Min. Liquid Surface Temp. (deg. R):							540.6700					
Daily Max. Liquid Surface Temp. (deg. R):							540.6700					
Daily Ambient Temp. Range (deg. R):							33.5000					
Vented Vapor Saturation Factor												
Vented Vapor Saturation Factor:							0.9569					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Vapor Space Outage (ft):							1.0000					
Working Losses (lb):							12,180.9397					
Vapor Molecular Weight (lb/lb-mole):							30.3355					
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):							0.8500					
Net Throughput (gal/mo):							19,840,000.0000					
Annual Turnovers:							31.0000					
Turnover Factor:							1.0000					
Maximum Liquid Volume (gal):							640,000.0000					
Maximum Liquid Height (ft):							42.0000					
Tank Diameter (ft):							50.9200					
Working Loss Product Factor:							1.0000					
Total Losses (lb):							12,180.9397					

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: July**

**Gallo 640k Tanks (Daily Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 23.9 % Vol Alcohol	12,180.94	0.00	12,180.94



# Annual Calculations

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 50k Tanks (Annual Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	N-1162285

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	14.75
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	50,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	500,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.41

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 50k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 50k Tanks (Annual Emissions) - Vertical Fixed Roof Tank  
Livingston, California**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Wine 15.0 % Vol Alcohol	131.04	0.00	131.04

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 85K Tanks (Annual Emissions)
City:	
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	N-1162285

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	19.00
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	85,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	850,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.32

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 85K Tanks (Annual Emissions) - Vertical Fixed Roof Tank**  
**, California**

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865





**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 85K Tanks (Annual Emissions) - Vertical Fixed Roof Tank  
, California**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Wine 15.0 % Vol Alcohol	222.77	0.00	222.77

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 105K Tanks (Annual Emissions)
City:	Livingston
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	N-1162285

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	21.08
Liquid Height (ft):	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	105,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	1,050,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft):	3.00
Slope (ft/ft) (Cone Roof):	0.28

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig):	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 105K Tanks (Annual Emissions) - Vertical Fixed Roof Tank**  
**Livingston, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weighl.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 105K Tanks (Annual Emissions) - Vertical Fixed Roof Tank  
Livingston, California**

Components	Losses(lbs)		
	Working Loss	Breathing Loss	Total Emissions
Wine 15.0 % Vol Alcohol	275.18	0.00	275.18

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 215k Tanks (Annual Emissions)
City:	
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	30.16
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	215,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	2,150,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.20

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 215k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865





**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 215k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 15.0 % Vol Alcohol	563.47	0.00	563.47

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 350k Tanks (Annual Emissions)
City:	
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	39.08
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	350,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	3,500,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	30.00
Slope (ft/ft) (Cone Roof)	0.15

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 350k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885



**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 350k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 15.0 % Vol Alcohol	917.27	0.00	917.27

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 430k Tanks (Annual Emissions)
City:	
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	40.00
Diameter (ft):	42.75
Liquid Height (ft) :	40.00
Avg. Liquid Height (ft):	40.00
Volume (gallons):	430,000.00
Turnovers:	10.00
Net Throughput(gal/yr):	4,300,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.14

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 430k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50885





**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 430k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 15.0 % Vol Alcohol	1,126.94	0.00	1,126.94

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Gallo 640k Tanks (Annual Emissions)
City:	
State:	California
Company:	E & J Gallo Winery
Type of Tank:	Vertical Fixed Roof Tank
Description:	

**Tank Dimensions**

Shell Height (ft):	42.00
Diameter (ft):	50.92
Liquid Height (ft) :	42.00
Avg. Liquid Height (ft):	42.00
Volume (gallons):	640,000.00
Turnovers:	7.00
Net Throughput(gal/yr):	4,480,000.00
Is Tank Heated (y/n):	Y

**Paint Characteristics**

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

**Roof Characteristics**

Type:	Cone
Height (ft)	3.00
Slope (ft/ft) (Cone Roof)	0.12

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: Fresno, California (Avg Atmospheric Pressure = 14.56 psia)

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Liquid Contents of Storage Tank**

**Gallo 640k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Wine 15.0 % Vol Alcohol	Jan	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Feb	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Mar	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Apr	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	May	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jun	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Jul	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Aug	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Sep	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Oct	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Nov	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865
Wine 15.0 % Vol Alcohol	Dec	63.30	63.30	63.30	63.30	0.4058	0.4058	0.4058	27.1255			19.46	Option 1: VP60 = 35513 VP70 = 50865

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Detail Calculations (AP-42)**

**Gallo 640k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Standing Losses (lb)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vapor Space Volume (cu ft)	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168
Vapor Density (lb/cu ft)	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020
Vapor Space Expansion Factor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vented Vapor Saturation Factor	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789
Tank Vapor Space Volume:												
Vapor Space Volume (cu ft):	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168	2,036.4168
Tank Diameter (ft):	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200
Vapor Space Outage (ft)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Tank Shell Height (ft)	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000
Average Liquid Height (ft)	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000
Roof Outage (ft)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Roof Outage (Cone Roof)												
Roof Outage (ft)	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Roof Height (ft)	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000
Roof Slope (ft/ft)	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200	0.1200
Roof Radius (ft)	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600	25.4600
Vapor Density												
Vapor Density (lb/cu ft)	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020	0.0020
Vapor Molecular Weight (lb/lb-mole)	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Daily Avg. Liquid Surface Temp. (deg R)	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700
Daily Average Ambient Temp. (deg F)	45.7500	51.1000	55.0000	61.2000	68.9500	76.5500	81.8500	80.2500	74.4500	65.2000	53.6000	45.4000
Ideal Gas Constant R (psia cu ft / (lb-mol-deg R))	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731	10.731
Liquid Bulk Temperature (deg R)	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700
Tank Paint Solar Absorptance (Shell)	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700
Tank Paint Solar Absorptance (Roof)	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700	0.1700
Daily Total Solar Insulation Factor (Btu/ftqft day)	668.1706	1,022.2439	1,488.6308	1,992.7729	2,390.8467	2,566.7143	2,551.4853	2,279.5850	1,860.7886	1,369.9719	851.5527	592.3431
Vapor Space Expansion Factor												
Vapor Space Expansion Factor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Daily Vapor Temperature Range (deg R)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Daily Vapor Pressure Range (psia)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Breather Vent Press. Settling Range (psia)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Daily Avg. Liquid Surface Temp. (deg R)	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700
Daily Min. Liquid Surface Temp. (deg R)	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700
Daily Max. Liquid Surface Temp. (deg R)	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700	522.9700
Daily Ambient Temp. Range (deg R):	16.7000	21.2000	23.2000	27.8000	30.5000	32.3000	33.5000	32.9000	31.3000	28.0000	22.2000	16.6000
Vented Vapor Saturation Factor												
Vented Vapor Saturation Factor:	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789	0.9789
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Vapor Space Outage (ft):	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Working Losses (lb):	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426
Vapor Molecular Weight (lb/lb-mole)	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255	27.1255
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058	0.4058
Net Throughput (gal/mo.):	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333	373,333.3333
Annual Turnovers	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000	7.0000
Turnover Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Maximum Liquid Volume (gal)	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000	640,000.0000
Maximum Liquid Height (ft):	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000	42.0000
Tank Diameter (ft)	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200	50.9200
Working Loss Product Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total Losses (lb):	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426	97.8426

**TANKS 4.0.9d**  
**Emissions Report - Detail Format**  
**Individual Tank Emission Totals**

**Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December**

**Gallo 640k Tanks (Annual Emissions) - Vertical Fixed Roof Tank**

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 15.0 % Vol Alcohol	1,174.11	0.00	1,174.11

## **APPENDIX B**

**FYI-295 – Modeling of Emissions for Wine and Distilled Spirits  
Storage Tanks Using Tanks 4.0d**

## **SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT**

**DATE:** August 9, 2011 (Revised 6/12/12)  
**TO:** Permit Services Staff  
**FROM:** Dennis Roberts  
**SUBJECT:** Modeling of Emissions for Wine and Distilled Spirits Storage Tanks Using Tanks 4.0d

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### **I. OVERVIEW**

Winery tank operations generally consist of two separate emissions units; 1) fermentation and 2) storage of wine and spirits. Any particular tank may be permitted to perform one or both of these operations. Emissions from storage operations are estimated by modeling the tank operation using U.S. EPA Tanks 4.0 software. Emissions from fermentation operations are estimated using emission factors which have been previously developed. The emissions from each emission unit are then appropriately combined to yield the Potential to Emit for the tank (permit unit).

This document provides guidance for using Tanks 4.0d for purposes of estimating VOC emissions from vertical fixed-roof tanks storing wine, distilled spirits or any other wine and ethanol mixture. Section III is an illustrative PE calculation for a new winery tank which is permitted for both fermentation and storage. Support documentation for methods is provided in the Appendices.

### **II. WINE AND SPIRITS STORAGE TANKS**

Emissions estimates for wine and spirits storage tanks are based on modeling the tank operation using the EPA's Tanks 4.0d software. The modeling method utilizes Tanks 4.0 software along with a data base of ethanol/water vapor-equilibrium data developed by The Wine Institute.

Storage tanks perform several functions in the winery:

- Facilitation of post-fermentation processing operations for wine such as racking, filtration, malolactic fermentation and bottling. In this role, the typical storage tank is filled and emptied several times per year and functions as a process vessel.
- Storage of wine between processing operations up to the final operation of bottling. In this role, the tank is often static and the objective is to avoid degradation of the wine by both minimizing the wine temperature and the exposure of the wine to air.
- Storage of distilled ethanol. The material is often referred to as "high proof" and is used in blending operations to fortify wine products. Some facilities may operate a distillation operation to produce brandy and or high proof and the tanks are used to store the product prior to use or shipment.

- Fermentation: Storage tanks may also be used as fermentation tanks. If a storage tank is also used for fermentation operations the fermentation emissions must be calculated separately by methods presented in this document.

Emissions from storage tanks consist of both working losses and breathing losses. The former losses occur as a result of the displacement of the vapor space of the tank into the atmosphere which occurs during tank filling operations and is primarily a function of tank throughput and the temperature and ethanol content of the wine. Breathing losses are the result of diurnal heating and cooling, caused by the effect of ambient conditions on the contents of the tank. For a well-insulated tank breathing losses are assumed to be negligible since the insulation (typically 3-4 inches polyurethane foam) significantly reduces heat gain/loss by the liquid in the tank. Installation of non-insulated tanks in a climate-controlled building is considered equivalent to insulation since the tank is isolated from solar radiation and wind effects as well as being maintained in a constant temperature environment. Thus breathing losses are considered to be negligible for this case as well.

The validity of Tanks 4.0 for emissions modeling of storage tanks is recognized by both the District and the US EPA. Although the software has been widely used by the District for modeling VOC emissions from tanks containing organic liquids such as hydrocarbons (e.g., oilfield production and storage tanks), its use for tanks which store highly non-ideal solutions such as ethanol/water mixtures requires the development of empirical vapor-equilibrium data for the specific fluid. Ethanol water mixtures do not conform to either Raoult's Law or Henry's law (except for over limited ranges of dilute ethanol concentration) and therefore the accurate estimation of vapor-equilibrium properties of these mixtures using pure component properties is complex. The alternative is the use of empirical data along with suitable interpolation formulas.

The Wine Institute has developed a data base for ethanol/water mixtures based on interpolation of empirical data given in the International Critical Tables. The data base provides information on vapor pressure and other mixture properties for the two phase binary ethanol/water mixture for all concentrations from 0.1% to 99.9% alcohol. It has been put in an Access file format suitable for input directly into the EPA Tanks 4.0d Model. The data base has been provided for use both by the District and by wineries for purposes of estimating wine storage tank emissions. This insures that storage tank emission calculations using the Tanks 4.0d model will be uniform and consistent among all parties. The basis and assumptions of the data base have been reviewed by the District and the data base was found to be both a good representation of the empirical data given in the International Critical Tables and to be in the correct format for use in Tanks 4.0d. The basis, assumptions and conventions for use of the data base are given in Appendix A.

The following discussion provides a guide to the use of Tanks 4.0d for modeling emissions from tanks containing ethanol/water mixtures. It is assumed that the reader is generally familiar with the use of Tanks 4.0 for modeling storage tanks (see the Tanks 4.0 User Manual and the EPA document "Tanks Software Frequent Questions" at <http://www.epa.gov/ttnchie1/faq/tanksfaq.html> for general use of the software). The following discussion will only address the specific considerations required for ethanol-water mixtures:



## A. Applicability of Tanks 4.0:

1. Winery tanks are almost exclusively vertical tanks with fixed roofs. The discussion will be restricted to this type.
2. Tanks 4.0 will be typically used to calculate the Potential to Emit (PE) for one of the following storage tank scenarios:
  - Temperature controlled tank which is either insulated or located inside a climate controlled building: Applicable to all insulated wine and brandy storage tanks with an operating temperature limitation on the permit. This category may be encountered for new tank installations are not being installed under an existing Specific Limiting Condition (SLC). Certain categories of storage tanks may be operated under continuous refrigeration such that the maximum temperature may be limited to less than ambient. Establishing a maximum temperature on the permit which is less than ambient results in reduced potential emissions and reduced requirements for offsets. The combined effect of limiting the maximum temperature and the use of insulation (or installing the tank in a temperature-controlled building) results in reduced working loss emissions and zero breathing loss emissions.

Non-temperature controlled tank which is either insulated or located inside a climate controlled building: Applicable to all insulated wine and brandy storage tanks without an operating temperature limitation on the permit. Although most wine storage operations utilize refrigeration at certain times to maintain wine quality, most tanks are utilized to perform certain post fermentation operations on the wine during which it is undesirable to chill the wine and the tank operation is therefore subject to ambient temperature. Although these tanks may be refrigerated at some point as required by wine processing requirements, since there is no temperature limit on the permit, it is conservatively assumed the bulk liquid temperature is set by ambient conditions. However, since the tank is insulated, it is assumed that the internal temperatures are relatively uniform such that liquid surface temperatures in the tank are approximately the same as the bulk liquid temperature. The result of this assumption is that the tank model only indicates working losses while breathing losses are calculated as zero. The majority of existing winery tanks which were originally permitted as in-house PTO's fall into this category.

- Non-temperature controlled tank which is neither insulated nor located inside a climate controlled building (unheated tank): Applicable to all non-insulated wine and brandy storage tanks without an operating temperature limitation. Most wine storage operations utilize refrigeration to maintain quality. However, since there is no temperature limit on the permit it is conservatively assumed the tank temperatures are set by ambient conditions. Since the tank is not insulated, both working and breathing losses will occur. Emissions calculated in this manner could represent uncontrolled emissions for any tank since the effects of insulation and temperature control would not be considered

Note that any tank installed in a building which is not climate-controlled is conservatively to be an outdoor installation.

3. To calculate both daily and annual PE:
  - Daily PE is based on maximum daily throughput, maximum ethanol % and the maximum temperature (if stated on the permit), occurring during July (hottest average monthly temperature for the San Joaquin Valley).

Annual PE is based on maximum annual throughput, maximum allowed annual average ethanol % and maximum temperature if stated on the permit. In lieu of average annual ethanol %, the maximum allowed ethanol % can be used, yielding a conservatively higher emission value. Annual storage operations are assumed to be averaged over the full year.
4. When a tank is used for multiple products and has a permit limit for each, e.g., wine and spirits storage, a separate model is prepared for each product and the sum of the emissions from all model runs represents the total PE for the tank.
5. In addition to PE calculations, Tanks 4.0 can be used to calculate Historical Actual Emissions (HAE) for wine storage tanks based on either the maximum permitted temperature or actual temperature as measured for each wine movement through the tank and the actual ethanol concentration for each wine movement.

## **B. Establish the Ethanol/Water Chemical Data Base**

1. Select data base

Before starting an emissions model for an ethanol/water tank, you must first establish access to the ethanol/water chemical data base. To access the Chemical Database for ethanol/water, start Tanks 4.0 and select "Change Data Base Locations" from the "File" menu. Select "Browse" from the pop up window for tank data base, go to G/PER/Tanks 4.0-Wine and then select the data base file "WI Rev 7.6 Tank.mdb".

2. Print a data base report for the specific mixture to be modeled

The data base properties for the specific ethanol/water mixture to be modeled should be printed prior to starting a model run on Tanks 4.0. This has two purposes: 1) the report provides a record of the mixture properties used for the calculations and 2) the report provides the value of the average molecular weight of the vapor which will be used in the final speciation calculation for the model. To print a data report, select "Data" from the main menu and go to Data/Chemical/Export/Print.

### C. Tanks 4.0 Input

After initiating a tank model, note that input is required for five different tabs: 1) *Identification*, 2) *Physical Characteristics*, 3) *Site Selection*, 4) *Tank Contents* and 5) *Monthly Calculations*.

Identification Tab: No special considerations for ethanol/water storage are required for this tab.

Physical Characteristics Tab:

- For square or rectangular tanks which are common in some wineries, input a diameter which gives an equivalent circular cross sectional area.
- For “Net Throughput” enter the proposed annual throughput in gallons per year for purposes of modeling annual PE for the tank. When modeling daily emissions, input the maximum daily throughput x 31 at this location (the model for daily emissions will assume that the maximum daily throughput occurs each day throughout July and Tanks 4.0 will directly determine monthly emissions for July on that basis. Daily PE will then be determined by dividing the July monthly emissions by the 31 days in July).
- For “Is tank heated?” select “yes” if the tank is insulated and then set the vacuum and pressure settings to zero per software recommendation. If the is not insulated, select “no” and input the pressure/vacuum settings.
- For insulated tanks, select “white/good” for both the tank walls and roof since most winery tanks are white (Note that for tanks which are insulated, the contents are assumed to be uniform in temperature and therefore the selection of the tank color and condition has no impact on the emission estimate). For non-insulated tanks, select “diffuse aluminum/good” in order to conservatively simulate a possibly unpainted stainless steel tank.
- For inputting tank roof geometries other than dome or cone, refer to the EPA FAQs document at <http://www.epa.gov/ttnchie1/faq/tanksfaq.html>.
- Since most wine storage operations strive to maintain the liquid height as high as possible to avoid oxygen contact with the wine, the average and maximum liquid heights may be set approximately equal to the tank wall height if no other basis is provided by the applicant (Note that if the tank is insulated, the contents are assumed to be uniform in temperature and the values for average and maximum liquid height in the tank have no impact on the emissions estimate).

Site Selection Tab:

- Select a location corresponding to the region of the facility. For San Joaquin Valley, the Tanks 4.0 data base includes only Bakersfield, Fresno and Stockton which should be adequately representative of facilities located in the District’s Southern, Central and Northern Regions respectively.

Tank Contents Tab:

- For “Chemical Category of Liquid”, select “Organic Liquids”
- For “Single or Multi-Component Liquid” select “Multiple”.

- For “Speciation Option” select “None”. (Note that using a speciation option causes the software to calculate the emissions of individual components. It does this by assuming Raoult’s law is applicable, using pure component properties – not applicable to ethanol/water mixtures).
- For “Mixture Name” select the entry from the database corresponding to the ethanol contents of the tank. For annual PE estimates, select either the allowed average annual ethanol concentration or the maximum allowed ethanol concentration, rounded to the nearest 0.1 %. For daily PE estimates, select only the maximum allowed ethanol concentration. Note that all entries in the data base are listed in the form “Wine XX.X % Vol Alcohol” although technically the maximum ethanol content for wine is 24% with higher concentration reflecting the “spirits or liquors” category. Selecting a mixture for the run will result in a pop-up window asking if you are sure you want to speciate this organic liquid – click “OK” (I’m not sure why Tanks 4.0 does this since you have previously selected “None” for the speciation question).
- Specify “Average Liquid Surface Temperature”, “Minimum Liquid Surface Temperature”, “Maximum Liquid Surface Temperature” and “Bulk Liquid Temperature” as follows:
  1. Temperature controlled tank which is either insulated or located inside a climate controlled building: Input the maximum allowed tank temperature for each entry (same value for all four inputs - note that due the effects of insulation, the temperature of the contents is assumed to be uniform).
  2. Non-temperature controlled tank which is either insulated or located inside a climate controlled building: It is assumed that the calculated average bulk liquid temperature (for the specific site as calculated by Tanks 4.0 for an unheated tank) is applicable for each entry (same value for all four inputs - note that due to the effects of insulation, the temperature of the contents is assumed to be uniform). To determine annual emissions for locations represented by Bakersfield input 64.4 °F for all four entries; for Fresno input 63.3 °F for all four entries; for Stockton input 61.6 °F for all four entries. To determine daily emissions for locations represented by Bakersfield input 83.1 °F for all four entries; for Fresno input 81.0 °F for all four entries; for Stockton input 77.3 °F for all four entries (the mean daily temperature for July is assumed for each location).
  3. Non-temperature controlled tank which is neither insulated nor located inside a climate controlled building (unheated tank): Since the tank will have been specified as not heated, Tanks 4.0 will calculate all temperatures based on the site selection. After selecting the appropriate site on the *Site Selection* tab, go to the *Tank Contents* tab and click the “Calculate Mixture Properties” button.
- Based on selection of the mixture, Tanks 4.0 will input the remaining information on vapor pressure and molecular weight per the data base for the selected mixture.

Monthly Calculations Tab:

- For Daily emissions models, check only July and click the “Distribute Throughput” button.
- For annual emissions models, check all months and click the “Distribute Throughput” button.

**D. Run Annual PE Emissions Model Report**

1. With the tank model configured for annual emissions (maximum annual throughput listed for “Net Throughput” on the “Physical Characteristics” tab and all months checked on the “Monthly Calculations” tab with the throughput evenly distributed in all months, click “Run Report”.
2. Select “Detailed” for report type and “monthly” for time basis and click OK.
3. The last page of the emissions report will list the estimated annual emissions from the tank. Note that the listed values are the combined emissions for ethanol and water (not the ethanol emissions from the tank). The listed values have to be speciated to determine the daily VOC emissions.

**E. Run Daily PE Emissions Model Report**

1. With the tank model configured for daily emissions (31 x maximum daily throughput listed for “Net Throughput” on the “Physical Characteristics” tab and only July checked on the “Monthly Calculations” tab with the throughput all occurring in July, click “Run Report”.
2. Select “Detailed” for report type and “monthly” for time basis and click OK.
3. The last page of the emissions report will list the estimated emissions from the tank for the month of July assuming the maximum daily throughput occurs each day of July. Note that the listed values are the combined emissions for ethanol and water (not the ethanol emissions from the tank). The listed values have to be converted to a daily emission basis and then speciated to determine the daily VOC emissions.

**F. Speciate the Tanks 4.0 Emissions Estimates to Determine the VOC (ethanol) Emissions:**

The annual emission estimate provided by the Tanks 4.0 model working + breathing loss) represents the combined loss of ethanol and water from the tank. To calculate the ethanol portion of the emissions, it is first necessary to determine the molar fraction of ethanol ( $y_a$ ) in the vapor emissions from the tank. This can be calculated from the average molecular weight (AMW) of the vapor as given on the previously printed chemical data report (the AMW is also listed on page 2 of the detailed emissions report). Per the definition of AMW for a binary mixture:

$$AMW = y_a \times MW_a + (1-y_a) \times MW_w$$

Solving for the molar fraction of ethanol,

$$y_a = \frac{AMW - MW_w}{MW_a - MW_w}$$

Where,

$MW_a$  = Molecular weight of ethanol = 46.02 lb/mole

$MW_w$  = Molecular weight of water = 18.02/lb/mole

The ethanol emissions may then be calculated,

$$PE_{\text{annual}} = \frac{\text{Annual Tank Loss}}{AMW} \times y_a \times MW_a$$

$$PE_{\text{daily}} = \frac{\text{July Tank Loss}}{31 \text{ days} \times AMW} \times y_a \times MW_a$$

### III. SAMPLE PE CALCULATION

(Combined fermentation and wine storage tank)

#### General Calculations

##### A. Assumptions

- The tank is used for both wine storage and wine fermentation.
- The tank dimensions are 15' dia x 40' H with an internal volume of 52,876 gallons.
- Maximum annual storage throughput is 5,000,000 gallons per year per the applicant.
- Maximum daily storage throughput is one tank volume at maximum fill height.
- Maximum wine production by fermentation is 150,000 gallons white wine per year.
- The tank is temperature controlled to maintain a maximum temperature of 40 °F.
- The tank is insulated.
- Maximum allowed average annual ethanol content in the tank is 12 volume percent.
- Maximum ethanol content in the tank is 16 volume percent.
- The storage tank emissions will be determined by modeling the tank with Tanks 4.0d software in conformance with the District's Policy (FYI -295) for modeling emissions from ethanol/water storage tanks.
- The emission estimates from Tanks 4.0d represent combined ethanol/water losses from the tank which must be speciated to determine the ethanol emissions.
- Annual Potential to Emit is the sum of the calculated PE for the storage operations emission unit and the calculated PE for the fermentation operations emission unit.
- Daily Potential to Emit is the greater of the calculated PE for the storage operations emission unit and the calculated PE for the fermentation operations emission unit.

- Molecular weight of ethanol =  $MW_a = 46.02$  lb/mole
- Molecular weight of water =  $MW_w = 18.02$  lb/mole

**B. Emission Factors**

Per the fermentation emission factors presented in District’s FYI-114:

<b>Wine Fermentation Emission Factors</b>		
Emission Factor	Red Wine	White Wine
Daily PE (lb-VOC/day per 1,000 gallons tank capacity)	3.46	1.62
Annual PE (lb-VOC/year per 1,000 gallons fermentation production)	6.2	2.5

Storage tank emissions will be modeled in Tanks 4.0d and no emission factors are necessary.

**C. Calculations**

**1. Pre-Project Potential to Emit (PE1)**

Since this is a new emissions unit,  $PE1 = 0$  for all pollutants.

**2. Post Project Potential to Emit (PE2)**

Storage Tank Operation

Appendix C presents the chemical data report from the District’s data base for 12 volume % and 16 volume % ethanol (maximum average annual and maximum ethanol concentration respectively). As listed, the average molecular weight of the vapor from this mixture is 25.97 lb/mole for 12% ethanol and 27.47 lb/mole for 16% ethanol.

Appendix D is the Tanks 4.0 model report for the annual emissions from the tank. As indicated, maximum annual loss from the tank ( $E_a$ ) is:

$E_a = 234$  lb/year (combined annual ethanol and water loss from the tank)

Appendix E is the Tanks 4.0 model report for determining the daily PE. As indicated, maximum daily loss from the tank ( $E_d$ ) is:

$E_d = 5.9$  lb/day (combined annual ethanol and water loss from the tank)

The annual emission estimates provided by the Tanks 4.0 model represent the combined loss of ethanol and water from the tank. To calculate the ethanol portion of the emissions, it is first necessary to determine the molar fraction of ethanol ( $y_a$ ) in the vapor emissions from the tank. This can be calculated from the average molecular weight (AMW) of the vapor as given on the previously printed chemical data report. Per the definition of AMW for a binary mixture:

$$AMW = y_a \times MW_a + (1-y_a) \times MW_w$$

Solving for the molar fraction of ethanol,

$$y_a = \frac{AMW - MW_w}{MW_a - MW_w}$$

Where,

$MW_a$  = Molecular weight of ethanol = 46.02 lb/mole

$MW_w$  = Molecular weight of water = 18.02/lb/mole

Therefore,

$$y_a = (25.97 - 18.02)/(46.02 - 18.02) = 0.2839 \text{ for 12\% ethanol mixture}$$

$$y_a = (27.47 - 18.02)/(46.02 - 18.02) = 0.3375 \text{ for 16\% ethanol mixture}$$

The annual PE emissions may then be calculated based on 12% ethanol,

$$PE_{\text{annual}} = \frac{E_a}{AMW} \times y_a \times MW_a$$

$$PE_{\text{annual}} = (234/25.97) \times 0.2839 \times 46.02 = 118 \text{ lb-VOC/year}$$

The daily emissions may then be calculated based on 16% ethanol,

$$PE_{\text{daily}} = \frac{E_d}{AMW} \times y_a \times 46.02$$

$$PE_{\text{daily}} = (5.9/27.47) \times 0.3375 \times 46.02 = 3.3 \text{ lb-VOC/day}$$

Fermentation Tank Emissions (white wine only)

$$PE_{\text{daily}} = 1.62 \text{ lb-VOC/1000 gallons capacity} \times 52,875 \text{ gal capacity}$$

$$PE_{\text{daily}} = 85.7 \text{ lb-VOC/day}$$

$$PE_{\text{annual}} = 2.5 \text{ lb-VOC/1000 gallons throughput} \times 150,000 \text{ gal/year throughput}$$

$$PE_{\text{annual}} = 375 \text{ lb-VOC/year}$$



<b>Post Project Potential to Emit (PE2)</b>						
	<b>Storage</b>		<b>Fermentation</b>		<b>Total</b>	
	Daily Emissions (lb/day)	Annual Emissions (lb/year)	Daily Emissions (lb/day)	Annual Emissions (lb/year)	Daily Emissions (lb/day)	Annual Emissions (lb/year)
NO <sub>x</sub>	0	0	0	0	0	0
SO <sub>x</sub>	0	0	0	0	0	0
PM <sub>10</sub>	0	0	0	0	0	0
CO	0	0	0	0	0	0
VOC	3.3	118	85.7	375	85.7	493

## **APPENDIX A**

# **ASSUMPTIONS AND METHODS FOR DEVELOPMENT OF THE TANKS 4.0D CHEMICAL DATA BASE FOR ETHANOL/WATER MIXTURES**

## ASSUMPTIONS AND METHODS FOR DEVELOPMENT OF THE TANKS 4.0D CHEMICAL DATA BASE FOR ETHANOL/WATER MIXTURES

- 1) To use Tanks 4.0d for modeling of storage tank emissions, the vapor-liquid equilibrium characteristics of the material in the tank must be defined. Since ethanol-water solutions are generally not ideal, it is necessary to utilize empirical data in this regard. The Wine Institute has developed this data base using data on the partial pressure of ethanol-water solutions taken from the International Critical Table (see Attachment 1)
- 2) As shown in Attachment 1, experimental partial pressure data over the full range of concentrations are given at various temperatures for both ethanol and water in mmHg. Values of  $P_A$  (partial pressure of water) and  $P_B$  (partial pressure of ethanol) are listed. For purposes of the data base, nomenclature will be revised to refer to the partial pressure of water as  $P_w$  and the partial pressure of ethanol as  $P_a$ . Applying Dalton's Law of Partial Pressures, the following relationships are obtained:

$$P = P_a + P_w$$

And

$$Y_a = P_a/P$$

$$Y_w = P_w/P$$

Where, "P" is the total vapor pressure of the solution and  $Y_a$  and  $Y_w$  are the mole fractions of ethanol and water in the equilibrium vapor phase respectively.

Since the ethanol-water system is highly non-ideal, it is necessary to utilize the "vapor weight specification" option (option1) in Tanks 4.0 for purposes of inputting vapor-liquid equilibrium data. For a given ethanol-water solution (concentration), the following information must be input to the chemical data base in Tanks 4.0:

Solution name (e.g., "12 vol % ethanol/water ")

Average molecular weight of the liquid

Density of the liquid, lb/gallon

Average molecular weight of the vapor

Vapor pressure of the liquid (psia) at 40, 50, 60, 70, 80, 90 and 100 °F.

Specification of the above data points requires that the data given in the International Critical Tables be interpolated.

- 3) To perform the interpolation, the partial pressures of ethanol and water at the Tanks 4.0d standard temperatures of 40, 50, 60, 70, 80, 90 and 100 °F are first determined by interpolation of the partial pressure data (mm Hg) given in the International Critical Tables at 20 °C (68 °F) and 40 °C (104 °F) (copy attached). The interpolation method is based on taking the log of the pressure to be a linear function of  $1/(T+460)$  when using degree Rankin or  $1/(T+273)$  when using degrees Kelvin as recommended in the International Critical Tables. For standard temperatures below 68 °F (40, 50 and 60 °F), an Excel trend function is used to perform the extrapolation based on the values interpolated for 70, 80, and 90 and 100 oF. The result of this step yields tabulated values of the partial pressure of ethanol and water

for mixture concentrations of 0, 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 weight% ethanol at each of the standard temperatures listed above.

- 4) The vapor pressure of each of the various mixture concentrations at the standard temperatures are then determined as the sum of the partial pressure of water and alcohol according to Dalton's Law. The result of this step yields tabulated values of the total vapor pressure of alcohol and water for mixture concentrations of 0, 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 weight % ethanol at each of the standard temperatures listed above.
- 5) Since the volumetric properties of ethanol-water are also highly non-ideal, the density of each of the mixtures is determined by interpolation from data given in Table No. 6 of the Gauging Manual of the Alcohol and Tobacco Tax and Trade Bureau (Attachment 2). Given the density and weight % alcohol and the vapor mole fractions (calculated as stated above per Dalton's Law), the average molecular weight of the liquid and vapor can be calculated for each of the listed concentrations. Completion of this step results in a complete set of data suitable for inputting into the "vapor weight specification" of Tanks 4.0 for mixture concentrations of 0, 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 weight%.
- 6) A set of standard vapor pressures and other data required for input to Tanks 4.0d are then determined for all ethanol concentrations between 0 and 100% at increments of 0.1 volume percent by linear interpolation between the values previously established at 0, 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 weight% ethanol. For each intermediate concentration,
  - The density is established by linear interpolation of the data in Table 6 and the liquid mole fraction and the average molecular weight of the liquid are determined
  - The total vapor pressures of the particular mixture at the standard temperatures of 40, 50, 60, 70, 80, 90 and 100 °F are determined by linear interpolation of the vapor pressure values established for 0, 10, 20, 30, 40, 50, 60, 70, 80, 90 and 100 weight% alcohol based upon vapor mole fraction.
  - The vapor mole fraction of alcohol is determined by interpolation of the mole fraction values established (x-y values) and the average molecular weight of the vapor is calculated at each of the standard temperatures..
- 7) The resulting data base consists of the following for each concentration between 0 and 100% at increments of 0.1 volume percent:

Liquid density lb/gal:	As interpolated from Table 6 (Tanks 4.0d input)
Liquid average molecular weight:	As calculated for specific mixture (Tanks 4.0d input)
Standard vapor pressures:	As interpolated for specific mixture (Tanks 4.0d input)
Vapor average molecular weight:	Average value from values interpolated at each standard temperature (Tanks 4.0d input)
Mole fraction alcohol in vapor:	Average value from values interpolated at each standard temperature (required for final manual calculation of ethanol emissions))

**Attachment 1 to Appendix A**

**Ethanol-Water Data from International Critical  
Tables**

**C<sub>7</sub>H<sub>14</sub>**  
Methylcyclohexane (Mix.)  
B = C<sub>7</sub>H<sub>14</sub> 1-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>7</sub>H<sub>14</sub> 2-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>7</sub>H<sub>14</sub> 1, 8-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>7</sub>H<sub>14</sub> 2, 8-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

**C<sub>7</sub>H<sub>14</sub>**  
Methylcyclohexane  
B = C<sub>7</sub>H<sub>14</sub> 1-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>7</sub>H<sub>14</sub> 2-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

(b) **Aqueous Systems**  
K = HCl, v. p. 268, 269, 301, 361  
B = HBr, v. p. 253, 306, 361  
D = HI, v. p. 254, 306  
B = H<sub>2</sub>O, v. p. 268, 302, 361  
B = H<sub>2</sub>SO<sub>4</sub>, v. p. 263, 302

B = NH<sub>3</sub> (124); cf. (144)  
The total vapor pressure for any composition and for any temperature between 0 and 30°C may be computed with the aid of the empirical equations  
$$p = 1 + 0.703(1 - x_2^2)$$
  
and  
$$\epsilon = (x_2 + 0.05)x_2 (1.34 - 2.24x_2 + 1.77x_2^2)$$
  
B = CH<sub>2</sub>O Formaldehyde (84)  
p<sub>2</sub> in mm

Wt. % H <sub>2</sub> O	1	5	10	15	20	25	30	35
0	(0.037)	0.074	0.099	0.120	0.141	0.162	0.183	0.193
20	(0.19)	0.306	0.407	0.490	0.574	0.658	0.742	0.826
35	(0.15)	0.261	1.156	1.58	1.90	2.28	2.67	3.05
45	(1.30)	2.22	3.11	3.80	4.58	5.34	6.12	6.92

B = CH<sub>3</sub>CO<sub>2</sub> Acetic acid, s. p. 364

B = CH<sub>3</sub>CO<sub>2</sub> Methyl acetate (119)  
p in mm (±0.1)

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
	30.0°	
0	51.7	0
11.90	30.2	66.1
17.35	39.6	76.6
21.07	37.3	85.3
27.31	35.8	100.6
31.06	34.9	108.3
40.1	32.8	127.7

B = C<sub>12</sub>H<sub>22</sub> 1, 8-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>12</sub>H<sub>22</sub> 2, 8-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

**C<sub>9</sub>H<sub>10</sub>**  
1, 3-Dimethylcyclohexane  
B = C<sub>9</sub>H<sub>10</sub> 2-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>9</sub>H<sub>10</sub> 1-Methyldecyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>9</sub>H<sub>10</sub> 1, 6-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

B = C<sub>9</sub>H<sub>10</sub> 2, 8-Dimethyl-  
decahydronaphthalene  
P at 20° (123)

in which T is the absolute temperature of the solution of composition 100x<sub>B</sub> mole % NH<sub>3</sub> and T is the absolute temperature at which pure liquid NH<sub>3</sub> (p, v) has the same vapor pressure as the solution.  
The partial vapor pressure of H<sub>2</sub>O (0.60°) may be computed from the empirical relations:

$$p_A = (1 - x_2)p_A^0$$
  
$$\alpha = 3.12p_A$$
 for  $x_2 < 0.53$   
$$\alpha = 0.0557p_A$$
 for  $x_2 > 0.53$   
$$p_B =$$
 the vapor pressure of pure H<sub>2</sub>O at the same temperature, v. also p. 269 and 302.  
B = HNO<sub>3</sub>, v. p. 304 and 305  
B = H<sub>3</sub>PO<sub>4</sub>, v. p. 233  
B = HCN, v. p. 261 and 305

B = CH<sub>3</sub>CO<sub>2</sub> Formic acid, s. p. 364

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
47.0	31.5	147.0
55.8	27.3	158.1
69.9	21.7	187.3
86.0	10.1	225.2
100	0	280.7

B = CH<sub>3</sub>CO<sub>2</sub>—(Continued)

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
47.0	31.5	147.0
55.8	27.3	158.1
69.9	21.7	187.3
86.0	10.1	225.2
100	0	280.7

B = CH<sub>3</sub>CO<sub>2</sub>—(Continued)

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
47.04	34.8	136.6
56.5	26.0	178.7
69.2	27.8	189.4
76.5	43.8	195.6
86.0	30.1	220.0
100	0	260.3

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> Acetic acid  
v. p. 308

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> Ethyl acetate  
(83, 84, 110, 139); cf. (25, 80)  
Log p<sub>A</sub> or log p<sub>B</sub> for any given composition is a linear function of  $\frac{1}{T + 273}$  between any two values in the following table.  
Wt. % B

Wt. % B	p <sub>A</sub>	p <sub>B</sub>
0	17.6	0.0
10	16.8	(0.7)
20	15.9	(12.8)
30	15.1	(17.1)
40	14.7	20.7
50	14.5	24.5
60	14.1	28.0
70	13.1	31.3
80	7.6	35.6
90	1.9	43.8
100	0.0	43.6

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub>—(Continued)

Wt. % B	p <sub>A</sub>	p <sub>B</sub>
80	181.4	454
90	130.8	527
98	94.7	626
100	0.0	667

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> Acetone (110);  
cf. (122)

p in mm (±4)

100x <sub>B</sub>	26°	30°	40°	60°
0.0	24	31	71	140
3.20	27	34	76	140
7.20	27	34	70	143
11.7	25	30	50	134
17.1	24	24	71	145
23.0	22	20	62	139
31.8	23	26	67	136
42.0	23	20	59	116
56.4	16	20	47	102
72.7	17	21	46	97
100	0	0	0	0

Wt. %

Wt. %	0.0	0	0	0
3.33	39	47	101	160
7.20	77	96	193	342
11.7	105	134	258	448
17.1	126	157	323	466
23.0	148	183	329	553
31.8	162	189	346	589
42.0	164	216	329	634
56.4	183	226	400	672
72.7	192	238	423	711
100	229	287	505	665

\* For data at 20, 40, 60, 80°, v. (119).

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> Propionic acid  
P in mm (±2) (80)

100x <sub>B</sub>	7.48	20.1	49.2
P <sub>20</sub>	18	17	18
P <sub>30</sub>	62	61	47
P <sub>40</sub>	127	143	130
P <sub>60</sub>	353	355	315
P <sub>80</sub>	705	760	687

For additional data, see (60).

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> Methyl acetate  
66.0°, p in mm (14°); cf. (122)  
v. also p. 384, 385

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
0	121	630
75	111	654
80	96	678
90	78	698
100	0	760

\* Azeotropic mixture.

B = C<sub>2</sub>H<sub>5</sub>CO<sub>2</sub> n-Propyl alcohol  
(110); cf. (27, 80)  
v. also p. 368

p in mm (±4)

100x <sub>B</sub>	p <sub>A</sub>	p <sub>B</sub>
0	32.3	0
8.08	29.8	10.3
18.77	28.8	17.2
38.02	24.5	18.5

**Attachment 2 to Appendix A**

**Table No. 6 of the Gauging Manual of the  
Alcohol and Tobacco Tax and Trade Bureau,  
U.S. Department of the Treasury (27 CFR  
Part 30)**

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**TABLE No. 6**  
**SHOWING**  
**RESPECTIVE VOLUMES OF ALCOHOL AND WATER**  
**AND THE SPECIFIC GRAVITY IN BOTH AIR**  
**AND VACUUM OF SPIRITUOUS LIQUOR**

(Prepared by the National Bureau of Standards and based on information published in Bulletin of the Bureau of Standards, Vol. 8, No. 4, pages 257-276, Oct. 15, 1912)

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TABLE No. 6

RESPECTIVE VOLUMES OF ALCOHOL AND WATER  
AND SPECIFIC GRAVITY

Proof	Alcohol	Water	Specific Gravity in air	Specific Gravity in vacuum
	Volume	Volume		
1	0.50	99.50	.99925	0.99925
2	1.00	99.00	.99850	.99850
3	1.50	98.50	.99775	.99775
4	2.00	98.00	.99700	.99700
5	2.50	97.50	.99625	.99625
6	3.00	97.00	.99550	.99550
7	3.50	96.50	.99475	.99475
8	4.00	96.00	.99400	.99400
9	4.50	95.50	.99325	.99325
10	5.00	95.00	.99250	.99250
11	5.50	94.50	.99175	.99175
12	6.00	94.00	.99100	.99100
13	6.50	93.50	.99025	.99025
14	7.00	93.00	.98950	.98950
15	7.50	92.50	.98875	.98875
16	8.00	92.00	.98800	.98800
17	8.50	91.50	.98725	.98725
18	9.00	91.00	.98650	.98650
19	9.50	90.50	.98575	.98575
20	10.00	90.00	.98500	.98500
21	10.50	89.50	.98425	.98425
22	11.00	89.00	.98350	.98350
23	11.50	88.50	.98275	.98275
24	12.00	88.00	.98200	.98200
25	12.50	87.50	.98125	.98125
26	13.00	87.00	.98050	.98050
27	13.50	86.50	.97975	.97975
28	14.00	86.00	.97900	.97900
29	14.50	85.50	.97825	.97825
30	15.00	85.00	.97750	.97750
31	15.50	84.50	.97675	.97675
32	16.00	84.00	.97600	.97600
33	16.50	83.50	.97525	.97525
34	17.00	83.00	.97450	.97450
35	17.50	82.50	.97375	.97375
36	18.00	82.00	.97300	.97300
37	18.50	81.50	.97225	.97225
38	19.00	81.00	.97150	.97150
39	19.50	80.50	.97075	.97075
40	20.00	80.00	.97000	.97000
41	20.50	79.50	.96925	.96925
42	21.00	79.00	.96850	.96850
43	21.50	78.50	.96775	.96775
44	22.00	78.00	.96700	.96700
45	22.50	77.50	.96625	.96625
46	23.00	77.00	.96550	.96550
47	23.50	76.50	.96475	.96475
48	24.00	76.00	.96400	.96400
49	24.50	75.50	.96325	.96325
50	25.00	75.00	.96250	.96250

TABLE No. 6

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RESPECTIVE VOLUMES OF ALCOHOL AND WATER  
AND SPECIFIC GRAVITY

Proof	Alcohol	Water	Specific gravity in air	Specific gravity in vacuum
	Volumes	Volumes		
51	35.00	75.79	.97027	0.97083
52	35.00	75.84	.96974	.96978
53	35.00	75.89	.96920	.96924
54	37.00	76.44	.96866	.96870
55	37.00	74.59	.96811	.96816
56	39.00	74.49	.96758	.96760
57	39.00	74.09	.96700	.96704
58	39.00	73.62	.96644	.96646
59	39.00	73.17	.96587	.96591
60	40.00	72.72	.96530	.96534
61	40.00	72.28	.96471	.96475
62	41.00	71.81	.96413	.96415
63	41.00	71.35	.96353	.96355
64	42.00	70.89	.96291	.96296
65	42.00	70.43	.96229	.96234
66	43.00	69.97	.96165	.96170
67	43.00	69.51	.96101	.96104
68	44.00	69.05	.96038	.96041
69	44.00	68.59	.95970	.95977
70	45.00	68.12	.95903	.95906
71	45.00	67.66	.95836	.95840
72	46.00	67.19	.95765	.95770
73	46.00	66.72	.95695	.95700
74	47.00	66.25	.95622	.95628
75	47.00	65.79	.95551	.95556
76	48.00	65.31	.95478	.95482
77	48.00	64.84	.95403	.95406
78	49.00	64.37	.95326	.95332
79	49.00	63.90	.95250	.95256
80	49.00	63.42	.95173	.95176
81	49.00	62.95	.95094	.95096
82	49.00	62.47	.95014	.95020
83	49.00	61.99	.94934	.94940
84	49.00	61.51	.94852	.94858
85	49.00	61.04	.94770	.94776
86	48.00	60.56	.94687	.94693
87	48.00	60.08	.94603	.94609
88	48.00	59.59	.94518	.94524
89	48.00	59.11	.94431	.94436
90	48.00	58.63	.94344	.94351
91	48.00	58.14	.94256	.94263
92	48.00	57.66	.94167	.94174
93	48.00	57.17	.94077	.94084
94	47.00	56.68	.93986	.93993
95	47.00	56.19	.93894	.93901
96	48.00	55.70	.93801	.93808
97	49.00	55.21	.93707	.93714
98	49.00	54.72	.93612	.93619
99	49.00	54.23	.93516	.93523
100	50.00	53.73	.93418	.93426

TABLE No. 8

RESPECTIVE VOLUMES OF ALCOHOL AND WATER  
AND SPECIFIC GRAVITY

Proof	Alcohol	Water	Specific gravity in air	Specific gravity in vacuum
	Volume	Volume		
101	60.50	58.24	.98320	.98228
102	51.00	52.73	.98352	.98260
103	51.50	52.25	.98128	.98131
104	52.00	51.75	.98028	.98031
105	52.50	51.25	.97893	.98001
106	53.00	50.75	.97822	.98000
107	53.50	50.23	.97730	.97726
108	54.00	49.73	.97618	.97606
109	54.50	49.23	.97475	.97523
110	55.00	48.73	.97409	.97410
111	55.50	48.26	.97305	.97316
112	56.00	47.76	.97200	.97210
113	56.50	47.25	.97095	.97105
114	57.00	46.75	.97009	.97009
115	57.50	46.24	.96882	.96992
116	58.00	45.74	.96774	.96784
117	58.50	45.23	.96665	.96675
118	59.00	44.73	.96555	.96565
119	59.50	44.22	.96444	.96455
120	60.00	43.71	.96333	.96344
121	60.50	43.20	.96221	.96232
122	61.00	42.69	.96109	.96120
123	61.50	42.18	.95998	.96007
124	62.00	41.67	.95882	.95893
125	62.50	41.16	.95768	.95779
126	63.00	40.66	.95653	.95664
127	63.50	40.14	.95538	.95549
128	64.00	39.63	.95422	.95434
129	64.50	39.11	.95306	.95318
130	65.00	38.60	.95190	.95202
131	65.50	38.08	.95073	.95085
132	66.00	37.57	.94955	.94967
133	66.50	37.06	.94836	.94848
134	67.00	36.54	.94717	.94729
135	67.50	36.03	.94597	.94609
136	68.00	35.50	.94476	.94489
137	68.50	34.99	.94355	.94368
138	69.00	34.47	.94233	.94245
139	69.50	33.95	.94109	.94123
140	70.00	33.43	.93985	.94000
141	70.50	32.91	.93862	.93875
142	71.00	32.38	.93738	.93751
143	71.50	31.86	.93613	.93625
144	72.00	31.34	.93488	.93499
145	72.50	30.83	.93363	.93373
146	73.00	30.30	.93239	.93244
147	73.50	29.76	.93102	.93110
148	74.00	29.24	.92973	.92987
149	74.50	28.71	.92844	.92858
150	75.00	28.18	.92714	.92728

TABLE No. 6

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RESPECTIVE VOLUMES OF ALCOHOL AND WATER  
AND SPECIFIC GRAVITY

Proof	Alcohol	Water	Specific gravity in air	Specific gravity in vacuum
151	76.00	27.58	87682	87597
152	76.00	27.14	87400	87315
153	76.00	26.50	87117	87032
154	77.00	26.07	87134	87139
155	77.50	25.54	87060	87065
156	78.00	25.01	86914	86920
157	78.00	24.47	86779	86784
158	78.00	23.93	86631	86636
159	79.00	23.40	86508	86513
160	80.00	22.87	86364	86369
161	80.50	22.33	86225	86231
162	81.00	21.80	86051	86057
163	81.50	21.26	85948	85954
164	82.00	20.72	85801	85807
165	82.50	20.18	85658	85664
166	83.00	19.64	85515	85521
167	83.50	19.10	85389	85395
168	84.00	18.55	85223	85229
169	84.50	18.01	85076	85082
170	85.00	17.46	84927	84933
171	85.50	16.92	84777	84783
172	86.00	16.37	84625	84631
173	86.50	15.82	84471	84477
174	87.00	15.27	84317	84323
175	87.50	14.72	84162	84168
176	88.00	14.18	84006	84012
177	88.50	13.63	83848	83854
178	89.00	13.08	83688	83694
179	89.50	12.53	83526	83532
180	90.00	11.98	83363	83369
181	90.50	11.43	83196	83202
182	91.00	10.88	83029	83035
183	91.50	10.33	82860	82866
184	92.00	9.78	82685	82691
185	92.50	9.23	82509	82515
186	93.00	8.68	82330	82336
187	93.50	8.13	82149	82155
188	94.00	7.58	81963	81969
189	94.50	7.03	81775	81781
190	95.00	6.48	81582	81588
191	95.50	5.93	81385	81391
192	96.00	5.38	81184	81190
193	96.50	4.83	80979	80985
194	97.00	4.28	80770	80776
195	97.50	3.73	80555	80561
196	98.00	3.18	80333	80339
197	98.50	2.63	80104	80110
198	99.00	2.08	79866	79872
199	99.50	1.53	79620	79626
200	100.00	1.00	79365	79371

**Appendix B**  
**Chemical Data Reports**

TANKS 4.0  
Chemical Data Report

Chemical Name Category	CAS	Molecular Weight		Density	Vapor Pressure (mm Hg) at Temperature (degrees F)					PCO2 Partial Pressure	Constants for Antoine's Equation				
		Liquid	Vapor		40	50	60	70	80		90	100	A	B	C
Wm 02.0 % Hydrocarbon Organic Liquid			96.15	26.07	0.21	0.16	0.23	0.34	0.44	0.58	0.88	1.32			

TANKS 4.0  
Chemical Data Report

Chemical Name Category	CAS	Molecular Weight		Density	Boiling Point	Melting Point	Vapor Pressure (mm Hg)	Flash Point	Autoignition Temp (°C)	Log P	Henry's Law Constant	EPA Hazard Category	RCRD (ppm)	ASTM Spec
		Liquid	Vapor											
Water (H <sub>2</sub> O) Organic - Liquid	7732-18-7	18.02	17.99	0.998	100	0	23.8	179	212	0.31	1.2	6	100	

**Appendix C**

**Annual Emission Model Report**



**TANKS 4.0.8d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

<b>Identification:</b>	<b>Annual Emissions</b>
User: Modulo	Modulo
City: Modulo	California
Company: Modulo	Vertical Road Road Tank
Type of Tank: Modulo	Annual Emission Model: Fume
Description: Modulo	
<b>Tank Dimensions:</b>	
Shell Height (ft): 40.00	
Diameter (ft): 15.00	
Liquid Height (ft): 40.00	
Avg. Liquid Height (ft): 40.00	
Volume (cubic feet): 52,878.00	
Turnover: 64.56	
Net Throughput(gal/yr): 5,000,000.00	
Is Tank Heated (Y/N): Y	
<b>Paint Characteristics:</b>	
Shell Color/Finish: White/White	
Shell Condition: Good	
Roof Color/Finish: White/White	
Roof Condition: Good	
<b>Roof Characteristics:</b>	
Type: Cone	
Height (ft): 2.00	
Slope (ft/ft) (Cone: Roof): 0.27	
<b>Structural Year Settings:</b>	
Vacuum Settings (psf): 0.00	
Pressure Settings (psf): 0.00	

Metemological Data used in Emissions Calculations: Station: California Jwy Atmospheric Pressure = 14.72 psia

TANKS 4.0.8d  
Emission Report - Detail Format  
Liquid Contents of Storage Tank

Annual Emissions - Vertical Fixed Roof Tank  
Modesto, California

Month	Daily Liquid Level (ft)			Liquid Level (ft)	Vapor Pressure (psia)	Vapor Weight (lbm)	Liquid Force	Vapor Force	Mol Weight	Daily Vapor Pressure Calculation
	Avg	Min	Max							
Jan	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Feb	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Mar	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Apr	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
May	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Jun	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Jul	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Aug	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Sep	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Oct	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Nov	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00
Dec	4.00	4.00	4.00	4.00	0.450	1.450	3.100	3.870	9.4	Option 1: VP 4.00 - 4.000 VP 4.00 - 20.00



TANKS 4.0.0d  
Emissions Report - Detail Format  
Individual Tank Emission Totals

Emissions Report for: January, February, March, April, May, June, July, August, September, October, November, December

Annual Emissions - Vertical Fixed Roof Tank  
Modesto, California

	Losses/Dry	
Component	Working Loss	Breathing Loss
Wine 12.0 % Vol Alcohol	234.21	0.02
		Total Emission:
		234.23

**Appendix D**

**Daily Emission Model Report**

**TANKS 4.0.0d**  
**Emissions Report - Detail Format**  
**Tank Identification and Physical Characteristics**

<p><b>Identification</b></p> <p>User Identification:  City:  State:  Company:  Type of Tank:  Description:</p>	<p>Daily Emissions  Modulo  California</p> <p>Vertical Flood Roof Tank  Daily Emission Modulo Runs</p>
<p><b>Tank Dimensions</b></p> <p>Shell Height (ft):  Diameter (ft):  Liquid Height (ft):  Avg. Liquid Height (ft):  Volume (gallons):  Turnover:  Net Throughput(gal/yr):  Is Tank Heated (Y/N):</p>	<p>40.00  15.00  40.00  40.00  52,878.00  1.00  52,878.00</p> <p>Y</p>
<p><b>Paint Characteristics</b></p> <p>Shell Color/Finish:  Shell Condition:  Floor Color/Finish:  Floor Condition:</p>	<p>White/White  Good  White/White  Good</p>
<p><b>Roof Characteristics</b></p> <p>Type:  Height (ft):  Slope (ft/ft) (Cone Roof)</p>	<p>Cone  2.00  0.27</p>
<p><b>Weather Vane Settings</b></p> <p>Vacuum Settings (psig):  Pressure Settings (psig)</p>	<p>0.00  0.00</p>

Metereological Data used in Emissions Calculations: Elevation, California (Avg Atmospheric Pressure = 14.72 psia)

TANKS 4.0.9d  
Emissions Report - Detail Format  
Liquid Contents of Storage Tank

Daily Emissions - Vertical Fired Roof Tank  
Modesto, California

Minor-Component	Month	Daily Liquid Surf. Temperature (deg F)		Liquid Temp (deg F)	Vapor Pressure (psia)		Vapor Mol. Weight	Liquid Molar Frac.	Vapor Molar Frac.	Mol. Weight	Emission Factor (lb/hr)
		Avg	Max		Avg	Max					
Wm - 85.5 VolA Benz	Jul	65.00	69.00	67.00	0.5000	0.5000	27.4800			5.26	Options = VFA6 = 0.687 VFA3 = 2.602

TANKS 4.0.9d  
Emissions Report - Detail Format  
Detail Calculations (AP-42)

Daily Emissions - Vertical Fired Roof Tank  
Modesto, California

Month:	January	February	March	April	May	June	July	August	September	October	November	December
Working Losses (lb):							6,300E					
Vapor Density (lb/cu ft):							17,000E					
Vapor Density (kg/cu m):							1,300E					
Vapor Density (lb/cu ft):							6,300E					
Vapor Density (kg/cu m):							2,600E					
Vertical Vapor Sublimation Factor:							0.300E					
Tank Vapor Space Volume:							1.7E+007					
Vapor Space Volume (cu ft):							4.800E					
Vapor Space Volume (m <sup>3</sup> ):							0.300E					
Vapor Space Volume (ft <sup>3</sup> ):							4.800E					
Vapor Space Volume (m <sup>3</sup> ):							0.300E					
Surface Area (sq ft):							4.200E					
Surface Area (m <sup>2</sup> ):							0.300E					
Roof Slope (deg):							0.000E					
Roof Slope (deg):							2.000E					
Roof Slope (deg):							0.000E					
Roof Slope (deg):							7.500E					
Vapor Density (lb/cu ft):							6,300E					
Vapor Density (kg/cu m):							0.400E					
Vapor Density (lb/cu ft):							0.400E					
Vapor Density (kg/cu m):							0.000E					
Surface Temperature (deg F):							48.600E					
Surface Temperature (deg C):							0.000E					
Daily Air Liquid Surface Temp (deg F):							0.000E					
Daily Air Liquid Surface Temp (deg C):							0.000E					
Daily Average Ambient Temp (deg F):							40.000E					
Daily Average Ambient Temp (deg C):							0.000E					
Latent Heat of Vaporization (Btu/lb):							48.600E					
Latent Heat of Vaporization (kJ/kg):							0.000E					
Surface Area (sq ft):							0.000E					
Surface Area (m <sup>2</sup> ):							0.000E					
Surface Area (sq ft):							0.000E					
Surface Area (m <sup>2</sup> ):							0.000E					
Daily Air Liquid Surface Temp (deg F):							48.600E					
Daily Air Liquid Surface Temp (deg C):							0.000E					
Daily Average Ambient Temp (deg F):							48.600E					
Daily Average Ambient Temp (deg C):							0.000E					
Vertical Vapor Sublimation Factor:							0.300E					
Vertical Vapor Sublimation Factor:							0.300E					
Vertical Vapor Sublimation Factor:							0.300E					
Vertical Vapor Sublimation Factor:							0.300E					
Working Losses (lb):							0.000E					
Working Losses (kg):							0.000E					
Vapor Pressure at Daily Average Liquid Temperature (psia):							0.000E					
Vapor Pressure at Daily Average Liquid Temperature (kPa):							0.000E					
Mass Fraction of Vapor:							0.000E					
Annual Emissions:							0.000E					
Maximum Liquid Volume (gal):							0.000E					
Maximum Liquid Volume (m <sup>3</sup> ):							0.000E					
Surface Area (sq ft):							0.000E					
Working Losses Product Factor:							0.000E					
Total Losses (lb):							0.000E					



TANKS 4.0.8d  
Emissions Report - Detail Format  
Individual Tank Emission Totals

Emissions Report for: July

Daily Emissions - Vertical Fixed Roof Tank  
Modesto, California

Components	Losses(tcs)		Total Emissions
	Working Loss	Breathing Loss	
Wine 16.0 % Vol Alcohol	5.85	0.00	5.85

## **Appendix C**

**BACT Guideline 5.4.13 and Top Down VOC BACT Analysis for Wine Storage Tanks**

San Joaquin Valley  
Unified Air Pollution Control District

**Best Available Control Technology (BACT) Guideline 5.4.13\***

Last Update: 9/26/2011

**Wine Storage Tank - Non-Wood Material\*\***

Pollutant	Achieved in Practice or contained in the SIP	Technologically Feasible	Alternate Basic Equipment
VOC	1. Insulation or Equivalent***, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation.	1. Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control)  2. Capture of VOCs and carbon adsorption or equivalent (95% control)  3. Capture of VOCs and absorption or equivalent (90% control)  4. Capture of VOCs and condensation or equivalent (70% control)	

\*\*This guideline is applicable to a wine storage tank that is not constructed out of wooden materials.

\*\*\*Tanks made of heat-conducting materials such as stainless steel may be insulated or stored indoors (in a completely enclosed building, except for vents, doors and other essential openings) to limit exposure of diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete (except for fittings) are considered self-insulating.

BACT is the most stringent control technique for the emissions unit and class of source. Control techniques that are not achieved in practice or contained in a state implementation plan must be cost effective as well as feasible. Economic analysis to demonstrate cost effectiveness is required for all determinations that are not achieved in practice or contained in an EPA approved State Implementation Plan.

**\*This is a Summary Page for this Class of Source**

## Top Down BACT Analysis for VOCs from Wine Storage Operations

### Step 1 - Identify All Possible Control Technologies

SJVUAPCD BACT Clearinghouse guideline 5.4.13 identifies achieved in practice BACT for wine storage tanks as follows:

- 1) Insulation or Equivalent\*\*, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation.

SJVUAPCD BACT Clearinghouse guideline 5.4.13 identifies technologically feasible BACT for wine storage tanks as follows:

- 2) Capture of VOCs and thermal or catalytic oxidation or equivalent (98% control)
- 3) Capture of VOCs and carbon adsorption or equivalent (95% control)
- 4) Capture of VOCs and absorption or equivalent (90% control)
- 5) Capture of VOCs and condensation or equivalent (70% control)

*\*\*Tanks made of heat-conducting materials such as stainless steel may be insulated or stored indoors (in a completely enclosed building, except for vents, doors and other essential openings) to limit exposure to diurnal temperature variations. Tanks made entirely of non-conducting materials such as concrete and wood (except for fittings) are considered self-insulating.*

SJVUAPCD BACT Clearinghouse guideline 5.4.13 does not identify any alternate basic equipment control alternatives.

### Step 2 - Eliminate Technologically Infeasible Options

None of the above listed technologies are technologically infeasible.

### Step 3 - Rank Remaining Control Technologies by Control Effectiveness

Rank by Control Effectiveness		
Rank	Control	Overall Capture and Control Efficiency
1	Capture of VOCs and thermal oxidation or equivalent	98%*
2	Capture of VOCs and carbon adsorption or equivalent	95%
3	Capture of VOCs and absorption (scrubber) or equivalent	90%
4	Capture of VOCs and condensation or equivalent	70%
5	Insulation or Equivalent, Pressure Vacuum Relief Valve (PVRV) set within 10% of the maximum allowable working pressure of the tank; "gas-tight" tank operation; and continuous storage temperature not exceeding 75 degrees F, achieved within 60 days of completion of fermentation	Baseline (Achieved-in-Practice)

\* Following recent District practice, thermal and catalytic oxidation will be ranked together.

## Step 4 - Cost Effectiveness Analysis

A cost effective analysis must be performed for all control options that have not been determined to be achieved in practice in the list from Step 3 above, in the order of their ranking, to determine the cost effective option with the lowest emissions.

District BACT Policy APR 1305 establishes annual cost thresholds for imposed control based upon the amount of pollutants reduced by the controls. If the cost of control is at or below the threshold, it is considered a cost effective control. If the cost exceeds the threshold, it is not cost effective and the control is not required. Per District BACT Policy, the maximum cost limit for VOC reduction is \$17,500 per ton of VOC emissions reduced.

### Uncontrolled Storage Emissions

E & J Gallo Winery is proposing to install 95 new wine storage tanks within this project. Therefore, for the purposes of this cost effectiveness analysis, uncontrolled storage VOC emissions will be set equal to the total VOC emissions allowed from all of the 95 new tanks.

Uncontrolled Storage PE = 27,344 lb-VOC/year

### Collection System Capital Investment (based on ductwork and clean-in-place system)

A common feature of all thermal oxidation/carbon adsorption/absorption or condensation options is that they require installation of a collection system for delivering the VOCs from the tanks to the common control device(s).

#### Basis of Cost Information:

- The costs for the ductwork and the required clean-in-place (CIP) system are based on information from the 2005 Eichleay Study. The 2005 Eichleay study was used in development of District Rule 4694 Wine Fermentation and Storage Tanks and includes substantial information on the costs and details of the potential application of VOC controls to wineries and addresses many of the technical issues of the general site specific factors for wineries.
- The collection system consists of stainless steel place ductwork (stainless steel is required due to food grade product status) with isolation valving, connecting the tanks to a common manifold system which ducts the combined vent to the common control device. The cost of dampers and isolation valving, installed in the ductwork, will be included in the cost estimate.
- The District performed a cost survey of stainless steel ducting/piping and found that the values stated in the Eichleay report including the cost of inflation (applied as stated below) were cheaper; therefore, as a conservative estimate, the District will use the cost of ducting/piping from the Eichleay report which will include ducting, fittings, bolt up, handle, and install. A summary of the survey is included in Attachment C2.
- Eichleay's cost estimate for ducting included the duct, fittings, bolt up, handle and install. When additional costs, as allowed for in the EPA Control Cost Manual, were added onto the ducting cost estimate, the facility double counted some of the costs that Eichleay already accounted for in their estimate; therefore, the District did not allow the additional costs for foundations & supports, handling & erection, electrical, piping or painting.

- Additionally, the facility included an inflation amount of 2.75% per year from 2005 through 2015 to adjust the Eichleay cost to present value. The District found this inflation value to be unfounded and was replaced with an inflation amount of 21.93% for the period of 2005 to 2016 taken from United States Department of Labor Bureau of Labor Statistics' CIP Inflation Calculator: [http://www.bls.gov/data/inflation\\_calculator.htm](http://www.bls.gov/data/inflation_calculator.htm).
- See Attachment C1 for ducting layout diagrams and ducting cost estimates.
- One of the major concerns of a manifold duct system is microorganisms spoiling the product, and transferring from one tank to another. It is necessary to design into the system a positive disconnect of the ducting system when the tanks are not being filled. There are a number of ways this can be done. In this case, an automatic butterfly valve with a physical spool to disconnect the tank from the duct will be utilized.

Capital Cost of Ductwork

As detailed in the tank layout sketches and the ductwork cost calculations included in Attachment B2, the cost for each tank group is summarized below:

Tank Group 1:

Connection from 50k tanks to main duct = 4 tanks x 43.25 feet x \$31.09/foot = \$5,379  
 Connection from 350k tanks to main duct = 4 tanks x 54.04 feet x \$41.45/foot = \$8,960  
 Connection from 430k tanks to main duct = 8 tanks x 56.38 feet x \$41.45/foot = \$18,696  
 Connection from 640k tanks to main duct = 2 tanks x 60.75 feet x \$41.45/foot = \$5,036  
 Main duct for storage tanks = \$47,645  
 Unit installed cost for 6 inch butterfly valve = \$2,125/valve x 18 valves x 1 system = \$38,250  
 Unit installed cost one foot removable spool = \$500/tank x 18 tanks x 1 system = \$9,000  
 1 Knockout drum = \$46,000  
 Duct support allowance = \$50,000

Total for Group 1 = \$5,379 + \$8,960 + \$18,696 + \$5,036 + \$47,645 + \$38,250 + \$9,000  
 + \$46,000 + \$50,000  
 = **\$228,966**

Tank Group 2:

Connection from tank to main duct = 20 tanks x 46.54 feet x \$31.09/foot = \$28,939  
 Main duct for storage tanks = \$16,745  
 Unit installed cost for 6 inch butterfly valve = \$2,125/valve x 20 valves x 1 system = \$42,500  
 Unit installed cost one foot removable spool = \$500/tank x 20 tanks x 1 system = \$10,000  
 1 Knockout drum = \$46,000  
 Duct support allowance = \$50,000

Total for Group 2 = \$28,939 + \$16,745 + \$42,500 + \$10,000 + \$46,000 + \$50,000  
 = **\$194,184**

Tank Group 3:

Connection from 50k tanks to main duct = 4 tanks x 43.25 feet x \$31.09/foot = \$5,379  
Connection from 85k tanks to main duct = 20 tanks x 44.85 feet x \$31.09/foot = \$27,888  
Connection from 105k tanks to main duct = 1 tanks x 45.54 feet x \$31.09/foot = \$1,416  
Connection from 215k tanks to main duct = 24 tanks x 49.58 feet x \$31.09/foot = \$36,995  
Connection from 430k tanks to main duct = 8 tanks x 56.75 feet x \$31.09/foot = \$14,115  
Main duct for storage tanks = \$93,381  
Unit installed cost for 6 inch butterfly valve = \$2,125/valve x 57 valves x 1 system = \$121,125  
Unit installed cost one foot removable spool = \$500/tank x 57 tanks x 1 system = \$28,500  
1 Knockout drum = \$46,000  
Duct support allowance = \$50,000

Total for Group 3 = \$5,379 + \$27,888 + \$1,416 + \$36,995 + \$14,115 + \$93,381 + \$112,125  
+ \$28,500 + \$46,000 + \$50,000  
= **\$415,799**

Total Capital Cost for All Tank Groups:

The total capital cost of the ductwork for all five tank groups is summarized in the table below:

Tank Group	Total Ducting Cost Including Support Allowance
1	\$228,966
2	\$194,184
3	\$415,799
Total	\$838,949

<b>Capital Cost of Ductwork for Wine Fermentation Tanks</b>	
Cost Description	Cost (\$)
Combined Duct Estimate for all Tank Groups (See Duct Sizing in Attachment C1)	\$838,979
Adjusting factor for inflation from 2005 dollars to 2016 dollars (21.93% total increase)	1.2193
Inflation adjusted duct cost	\$1,022,967
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
<b>Direct Costs</b>	
Base Equipment Costs (Ductwork) See Above	\$1,022,967
Instrumentation (not required)	-
Sales Tax - 3.31% of base equipment	\$33,860
Freight - 5% of base equipment	\$51,148
<b>Purchased equipment cost (PEC)</b>	<b>\$1,107,975</b>
Foundations & supports 8% (allowance already included in cost estimate)	-
Handling & erection 14% (already included in Eichleay cost estimate)	-
Electrical 4% (not required)	-
Piping 2% (not required)	-
Painting 1% (not required)	-
Insulation 1% of PEC	\$11,080
<b>Direct Installation Costs (DIC)</b>	<b>\$11,080</b>
<b>Total Direct Costs (DC) (PEC + DIC)</b>	<b>\$1,119,055</b>
<b>Indirect Costs</b>	
Engineering - 10% of PEC	\$110,798
Construction and field expenses - 5% of PEC	\$55,399
Contractor Fees - 10% of PEC	\$110,798
Start-up - 2% of PEC	\$22,160
Performance Test - 1% of PEC	\$11,080
<b>Total Indirect Costs (IC)</b>	<b>\$310,235</b>
<b>Subtotal Capital Investment (SCI) (DC + IC)</b>	<b>\$1,429,290</b>
Contingencies – 15% of SCI	\$214,394
<b>Total Capital Investment (TCI) (SCI + Contingency)</b>	<b>\$1,643,684</b>



### Capital Cost Clean-In-Place (CIP) System

A ducting system on a tank farm must have this system to maintain sanitation and quality of the product. The cost of operation of the CIP system has not been estimated. Operation of a CIP system, using typical cleaning agents, will raise disposal and wastewater treatment costs. Most likely, these costs will be significant.

<b>Capital Cost of Clean-In-Place (CIP) System of Ductwork for Wine Fermentation Tanks</b>	
Cost Description	Cost (\$)
Current cost of CIP system (\$100,000 x 2 lower flow collection systems and \$200,000 x 1 higher flow collection system)	\$400,000
The following cost data is taken from EPA Control Cost Manual, Sixth Edition (EPA/452/B-02-001).	
<b>Direct Costs</b>	
Base Equipment Costs (CIP System) See Above	\$400,000
Instrumentation - 10% of base equipment	\$40,000
Sales Tax - 3.31% of base equipment	\$13,240
Freight - 5% of base equipment	\$20,000
<b>Purchased equipment cost (PEC)</b>	<b>\$473,240</b>
Foundations & supports - 8% of PEC	\$37,859
Handling & erection - 14% of PEC	\$66,254
Electrical - 4% of PEC	\$18,930
Piping – accounted for in ductwork cost	-
Painting - 1% of PEC	\$4,732
Insulation - 1% of PEC	\$4,732
<b>Direct Installation Costs (DIC)</b>	<b>\$132,507</b>
<b>Total Direct Costs (DC) (PEC + DIC)</b>	<b>\$605,747</b>
<b>Indirect Costs</b>	
Engineering - 10% of PEC	\$47,324
Construction and field expenses - 5% of PEC	\$23,662
Contractor fees - 10% of PEC	\$47,324
Start-up - 2% of PEC	\$9,465
Performance test - 1% of PEC	\$4,732
<b>Total Indirect Costs (IC)</b>	<b>\$132,507</b>
<b>Subtotal Capital Investment (SCI) (DC + IC)</b>	<b>\$738,254</b>
Contingencies - 15% of SCI	\$110,738
<b>Total Capital Investment (TCI) (SCI + Contingency)</b>	<b>\$848,992</b>

### Annualized Capital Cost

$$\begin{aligned}\text{Total capital costs} &= \text{Ductwork} + \text{CIP System} \\ &= \$1,643,684 + \$848,992 \\ &= \$2,492,676\end{aligned}$$

Annualized Capital Investment = Initial Capital Investment x Amortization Factor

$$\text{Amortization Factor} = \left[ \frac{0.1(1.1)^{10}}{(1.1)^{10} - 1} \right] = 0.163 \text{ per District policy, amortizing over 10 years at 10\%}$$

Therefore,

$$\text{Total Collection System Annualized Capital Investment} = \$2,492,676 \times 0.163$$

$$\text{Total Collection System Annualized Capital Investment} = \$406,306$$

### **Option 1 - Collection of VOCs and Control by Thermal or Catalytic Oxidation (98% collection & control):**

#### Total Annual Cost

$$\begin{aligned}\text{Total Annual Cost} &= \text{Ductwork} + \text{CIP System} \\ &= \$406,306\end{aligned}$$

#### Emission Reductions

$$\begin{aligned}\text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.98 \\ &= 27,344 \text{ lb-VOC/year} \times 0.98 \\ &= 26,797 \text{ lb-VOC/year} \\ &= 13.4 \text{ tons-VOC/year}\end{aligned}$$

#### Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

$$\begin{aligned}\text{Cost Effectiveness} &= \$406,306/\text{year} \div 13.4 \text{ tons-VOC/year} \\ &= \$30,321/\text{ton-VOC}\end{aligned}$$

The analysis demonstrates that the annualized purchase cost of the required collection system ductwork equipment alone results in a cost effectiveness which exceeds the District's Guideline of \$17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

**Option 2 - Collection of VOCs and control by carbon adsorption (95% collection and control):**

Total Annual Cost

$$\begin{aligned} \text{Total Annual Cost} &= \text{Ductwork} + \text{CIP System} \\ &= \$406,306 \end{aligned}$$

Emission Reductions

$$\begin{aligned} \text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.95 \\ &= 27,344 \text{ lb-VOC/year} \times 0.95 \\ &= 25,977 \text{ lb-VOC/year} \\ &= 13.0 \text{ tons-VOC/year} \end{aligned}$$

Cost Effectiveness

$$\text{Cost Effectiveness} = \text{Total Annual Cost} \div \text{Annual Emission Reductions}$$

$$\begin{aligned} \text{Cost Effectiveness} &= \$406,306/\text{year} \div 13.0 \text{ tons-VOC/year} \\ &= \$31,254/\text{ton-VOC} \end{aligned}$$

The analysis demonstrates that the annualized purchase cost of the required collection system ductwork equipment alone results in a cost effectiveness which exceeds the District's Guideline of \$17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

**Option 3 - Collection of VOCs and Control by Absorption/Scrubber (90% collection & control):**

Total Annual Cost

$$\begin{aligned} \text{Total Annual Cost} &= \text{Ductwork} + \text{CIP System} \\ &= \$406,306 \end{aligned}$$

Emission Reductions

$$\begin{aligned} \text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.90 \\ &= 27,344 \text{ lb-VOC/year} \times 0.90 \\ &= 24,610 \text{ lb-VOC/year} \\ &= 12.3 \text{ tons-VOC/year} \end{aligned}$$

### Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

$$\begin{aligned}\text{Cost Effectiveness} &= \$406,306/\text{year} \div 12.3 \text{ tons-VOC/year} \\ &= \$33,033/\text{ton-VOC}\end{aligned}$$

The analysis demonstrates that the annualized purchase cost of the required collection system ductwork equipment alone results in a cost effectiveness which exceeds the District's Guideline of \$17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

### Option 4 - Capture of VOCs and Condensation (70% collection & control):

#### Total Annual Cost

$$\begin{aligned}\text{Total Annual Cost} &= \text{Ductwork} + \text{CIP System} \\ &= \$406,306\end{aligned}$$

#### Emission Reductions

$$\begin{aligned}\text{Annual Emission Reduction} &= \text{Uncontrolled Emissions} \times 0.70 \\ &= 27,344 \text{ lb-VOC/year} \times 0.70 \\ &= 19,141 \text{ lb-VOC/year} \\ &= 9.6 \text{ tons-VOC/year}\end{aligned}$$

### Cost Effectiveness

Cost Effectiveness = Total Annual Cost ÷ Annual Emission Reductions

$$\begin{aligned}\text{Cost Effectiveness} &= \$406,306/\text{year} \div 9.6 \text{ tons-VOC/year} \\ &= \$42,3241/\text{ton-VOC}\end{aligned}$$

The analysis demonstrates that the annualized purchase cost of the required collection system ductwork equipment alone results in a cost effectiveness which exceeds the District's Guideline of \$17,500/ton-VOC. Therefore this option is not cost-effective and will not be considered for this project.

### Option 5 - Insulation, PVRV, "Gas-Tight" Tank Operation, and Storage Temperature not Exceeding 75 deg F, Achieved within 60 days of Completion of Fermentation):

The only remaining control option in step 3 above has been deemed AIP for this class and category of source and per the District BACT policy is required regardless of the cost. Therefore, a cost effectiveness analysis is not required.

## **Step 5 – Select BACT**

All identified feasible options with control efficiencies higher than the option proposed by the facility have been shown to not be cost effective. Each of these wine storage tanks is already equipped and/or operated in a manner that complies with Option 5, insulated tank, pressure/vacuum valve set within 10% of the maximum allowable working pressure of the tank, "gas tight" tank operation and achieve and maintain a continuous storage temperature not exceeding 75°F within 60 days of completion of fermentation. These BACT requirements will be placed on the ATC as enforceable conditions.

## **Attachment C1**

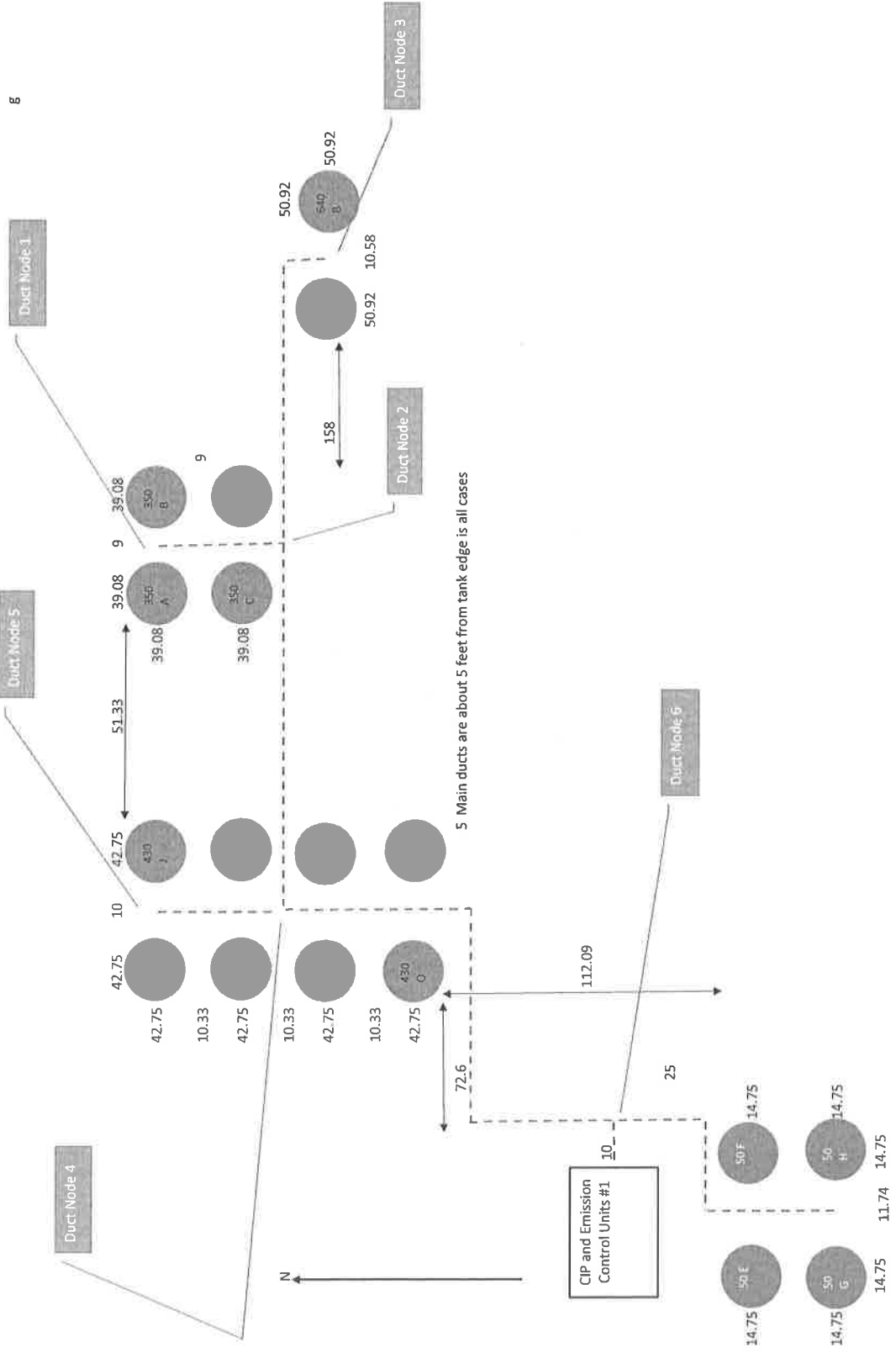
Ducting Layout Diagrams and  
Ducting Cost Estimates

# Tank Group 1 Layout

Tanks are for storage only. A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross reference the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

The tanks in this diagram are graphically shown as the same size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 18

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



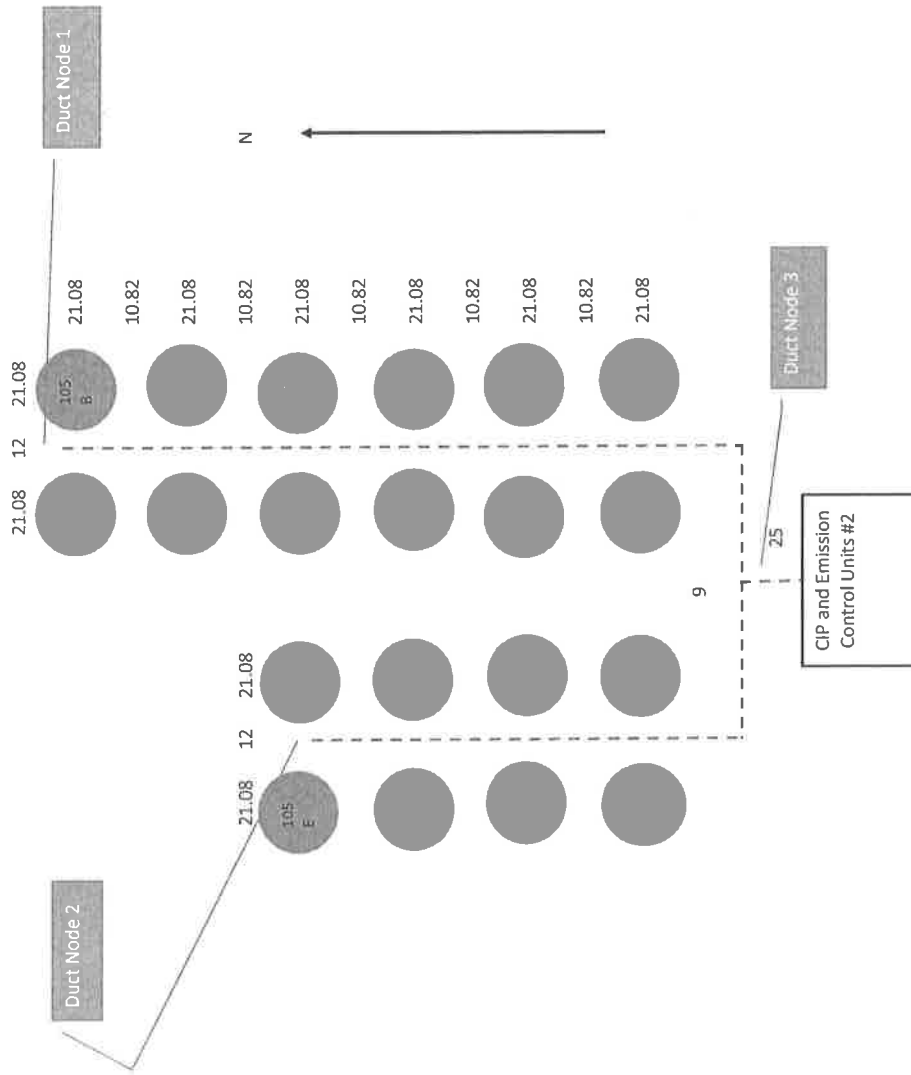
5 Main ducts are about 5 feet from tank edge in all cases

## Tank Group 2 Layout

Tanks are for storage only. A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross reference the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

The tanks in this diagram are graphically shown as the same size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 20

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



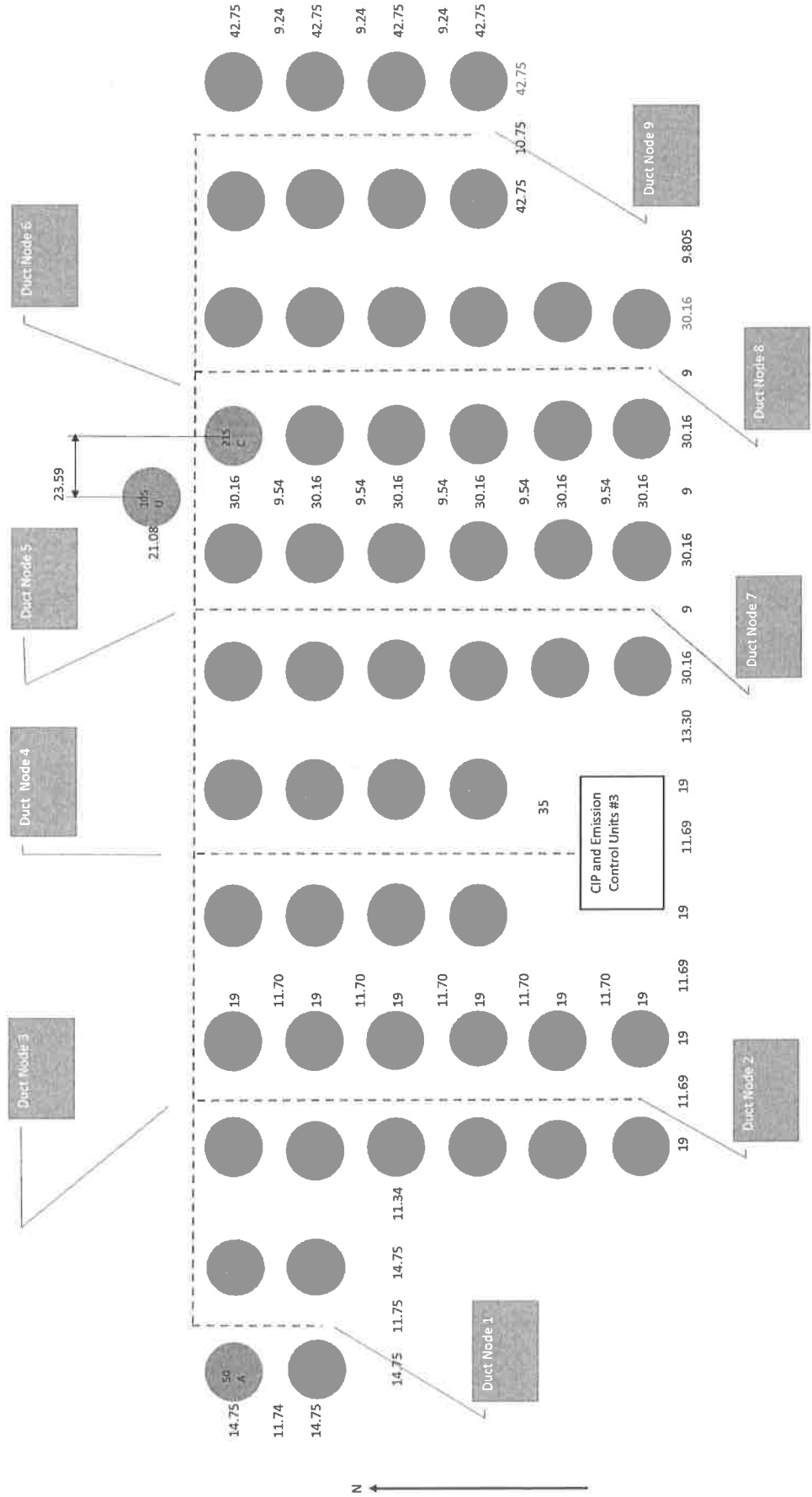


# Tank Group 3 Layout

Tanks are for storage only. A temporary number is assigned to each tank for layout purposes. Gallo will supply a table that will cross reference the numbers shown on these sketches and the final ID for inclusion in the permit to operate.

The tanks in this diagram are graphically shown as the same size for convenience of the spread sheet layout. The numbers in the cells around the tank layout reflect spacing and tank dimensions from the data base and layout Auto Cad files. Only the main duct between the tanks are shown. The connections from the tank to the main duct are priced out in the duct cost tabs. Total tanks in this sketch 57

Red dashed line is the most probable duct routing. Blue call out boxes show where a duct intersects with another duct or where a duct begins.



## Tank Group 1 Ducting Cost

Nominal duct size is the smallest duct size for which we have pricing. The adjusted duct size is the size that was selected for the calculated flow. This size was not set smaller than 3 inches to maintain some structural rigidity in the duct piping system. The adjust price is based on a ratio of the duct sized based on flow to the closest nominal size for which we have pricing. (Circumference Size 1/Circumference Size 2)

Comments	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)		Number of Tanks	Total Length of Piping in Feet	Design Duct Velocity from Eichley Feet/Second	Gas Storage Fill in CFM for One Tank	Duct size from tank to main diameter in inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components		Total Cost of Ducting to Main Duct
	Allocation at Each Tank from Previous Work	Adjusted Duct Size Inches								Cost Per Foot from Eichley (See Comments)	Cost of Ducting to Main Duct	
50,000 Gallon Tanks	43.25	4.00	4.00	172.98	40.00	9.95	0.87	6.00	4.00	\$10,500	\$31.09	\$5,377
350,000 Gallon Tanks	54.04	4.00	4.00	216.16	40.00	69.65	2.31	6.00	4.00	\$10,500	\$41.45	\$8,959
430,000 Gallon Tanks	56.38	8.00	8.00	451.00	40.00	85.57	2.56	6.00	8.00	\$21,000	\$41.45	\$18,693
640,000 Gallon Tanks	60.75	2.00	2.00	121.50	40.00	127.04	3.12	6.00	2.00	\$5,250	\$41.45	\$5,036

Main Ducting Sizing	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping. This is set at 50%	Gas Flows CFM	Design Duct Velocity from Eichley Feet/Second	Duct size main diameter in inches	Nominal Duct Size diameter in inches (See comments)	Total Length of Piping in Feet Connecting Nodes	Adjusted duct Size Diameter Inches	Cost Per Foot from Eichley (See Comments)	Cost of Ducting for Main Duct
	3	2	2.00	1	127.04	40.00	3.12	6	288	4.00	\$41.45	\$11,947
	1	2	4.00	2	139.30	40.00	3.26	6	73	4.00	\$41.45	\$3,010
	2	4	6.00	3	266.35	40.00	4.51	6	143	6.00	\$62.17	\$8,869
	5	4	4.00	2	171.15	40.00	3.62	6	80	4.00	\$41.45	\$3,300
	4	6	14.00	7	437.49	40.00	5.78	6	313	6.00	\$62.17	\$19,486
	6	Emissions	18.00	9	457.39	40.00	5.91	8	10	8.00	\$103.25	\$1,033
												\$46,000
												\$50,000
												<b>\$228,960</b>

Knock Out Drum Eichley  
Structural Support Allowance

## Tank Group 2 Ducting Cost

Nominal duct size is the smallest duct size for which we have pricing. The adjusted duct size is the size that was selected for the calculated flow. This size was not set smaller than 3 inches to maintain some structural rigidity in the duct piping system. The adjust price is based on a ratio of the duct sized based on flow to the closest nominal size for which we have pricing. (Circumference Size 1/Circumference Size 2)

Comments	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichleay Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Adjusted Duct Size Inches	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting to Main Duct	Total Cost of Ducting to Main Duct
105,000 Gallon Tanks													

Main Ducting Sizing	Beginning Node	Ending Node	Number of tanks feeding ending node	Tanks Pumping, This is set at 50%	Design Duct Velocity from Eichleay Feet/Second	Duct size main diameter inches	Nominal Duct Size diameter in inches (See comments)	Total Length of Piping in Feet Connecting Nodes	Cost Per Foot from Eichleay (See Comments)	Cost of Ducting for Main Duct
	2	3	8.00	4	40.00	2.53	6	138	\$41.45	\$5,712
	3	Emissions	20.00	9	40.00	4.00	6	25	\$62.17	\$1,554
Knock Out Drum Eichleay Structural Support Allowance										\$46,000
										\$50,000
										\$194,180

**Total**

### Tank Group 3 Ducting Cost

Nominal duct size is the smallest duct size for which we have pricing. The adjusted duct size is the size that was selected for the calculated flow. This size was not set smaller than 3 inches to maintain some structural rigidity in the duct piping system. The adjust price is based on a ratio of the duct sized based on flow to the closest nominal size for which we have pricing. (Circumference Size 1/Circumference Size 2)

Comments	Connection Length from Tanks to Main Ducts (Main is about 10 feet from floor)	Number of Tanks	Total Length of Connection Piping in Feet	Design Duct Velocity from Eichley Feet/Second	Gas Flow Rate Storage Fill in CFM for One Tank	Duct size from tank to main diameter inches	Nominal Duct Size diameter in inches (See comments)	Number of Tanks to connect	Valving and Spool Isolation Components Allocation at Each Tank from Previous Work	Adjusted Duct Size Inches	Cost Per Foot from Eichley (See Comments)	Cost of Ducting to Main Duct
50,000 Gallon Tanks	43.25	4.00	173.00	40.00	9.95	0.87	6.00	4.00	\$10,500	3.00	\$31.09	\$5,378
85,000 Gallon Tanks	44.85	20.00	897.00	40.00	16.92	1.14	6.00	20.00	\$52,500	3.00	\$31.09	\$27,884
105,000 Gallon Tanks	45.54	1.00	45.54	40.00	20.90	1.26	6.00	1.00	\$2,625	3.00	\$31.09	\$1,416
215,000 Gallon Tanks	49.58	24.00	1,189.92	40.00	42.79	1.81	6.00	24.00	\$63,000	3.00	\$31.09	\$36,989
430,000 Gallon Tanks	56.75	8.00	454.00	40.00	85.57	2.56	6.00	8.00	\$21,000	3.00	\$31.09	\$14,113
												\$15,877.77
												\$80,383.57
												\$4,040.63
												\$99,989.10
												\$35,112.76

Main Ducting Sizing	Beginning Node	Ending Node	Number of tanks feeding node	Tanks Pumping. This is set about 50%	Design Duct Velocity from Eichley Feet/Second	Duct size main diameter inches	Nominal Duct Size diameter in inches (See comments)	Total Length of Piping in Feet Connecting Nodes	Adjusted Duct Size Diameter Inches	Cost Per Foot from Eichley (See Comments)	Cost of Ducting for Main Duct	
												Gas Flows CFM
	1	3	4.00	2	19.90	1.23	6	96	3.00	\$31.09	\$2,974	
	2	3	12.00	6	101.49	2.78	6	168	3.00	\$31.09	\$5,222	
	9	6	8.00	4	342.29	5.11	6	275	6.00	\$62.17	\$17,093	
	8	6	12.00	6	256.72	4.43	6	219	4.00	\$41.45	\$9,060	
	7	5	12.00	6	256.72	4.43	6	219	6.00	\$62.17	\$13,589	
	3	4	16.00	8	121.39	4.43	6	61	4.00	\$41.45	\$2,544	
	6	5	33.00	17	876.62	40.00	10	78	10.00	\$144.33	\$11,304	
	5	4	33.00	17	876.62	40.00	10	73	10.00	\$144.33	\$10,508	
	4	Emission Controls	57.00	29	1065.68	40.00	10	146	10.00	\$144.33	\$21,087	
												\$93,381
												\$46,000
												\$50,000
												\$424,785

Knock Out Drum Eichley  
Structural Support Allowance

## **Attachment C2**

Comparison of Stainless Steel Ducting Costs



**Supplier: Del Paso Pipe & Steel Inc.** (<http://www.delpasopipeandsteel.com/>)

Location: Sacramento, CA

Schedule 5/10 Pipe:																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price Quote: \$9/lb																					
Estimated Price/Foot	--	--	--	--	--	--	\$217.00	\$250.00	\$286.00	\$322.00	\$432.00	--	--								

**Supplier: Hayward Pipe & Supply Co. Inc.** (<http://www.haywardpipe.com/>)

Location: Hayward, CA

Note: large diameter pipe ships from Texas, FREIGHT NOT QUOTED - Additional Shipping Costs apply																					
Schedule 10 Pipe																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price (\$)	--	--	--	--	--	--	\$1,540.00	\$2,268.00	\$2,940.00	\$3,276.00	\$3,696.00	--	--								
Length (feet)	--	--	--	--	--	--	20	20	20	20	20	--	--								
Price/Foot (\$)	--	--	--	--	--	--	\$77.00	\$113.40	\$147.00	\$163.80	\$184.80	--	--								

**Supplier: OnlineMetals.com** (<http://www.onlinemetals.com/>)

Location: Nearest Warehouse - Los Angeles, CA

Schedule 10 Pipe																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price (\$)	\$78.28	\$108.97	\$160.34	\$288.00	\$520.00	--	--	--	--	--	--	--	--								
Length (feet)	8	8	8	8	8	--	--	--	--	--	--	--	--								
Price/Foot (\$)	\$9.79	\$13.62	\$20.04	\$36.00	\$65.00	--	--	--	--	--	--	--	--								
Welds Stainless Tube 304/304L (2" OD, 0.12" Wall; 3" OD, 0.12" Wall; 6" OD, 0.12")																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price (\$)	\$109.86	\$321.34	--	\$628.16	--	--	--	--	--	--	--	--	--								
Length (feet)	8	8	--	8	--	--	--	--	--	--	--	--	--								
Price/Foot (\$)	\$13.73	\$40.17	--	\$78.52	--	--	--	--	--	--	--	--	--								

**Supplier: Lone Star Supply Co**

Location: Dickinson, TX

Note: Additional shipping costs																					
Schedule 10 Welded Pipe																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price/Foot (\$)	--	--	\$16.45	\$19.60	\$21.50	\$30.50	\$39.00	--	--	\$81.25	--	--	\$230.00								

**Supplier: Global Technology and Engineering**

Location: Excelsior Springs, MO

Note: Additional shipping costs																					
11 Gauge Tubing																					
Duct Size Diameter (in.)	2"	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"								
Price (\$)	--	--	\$226.58	\$487.40	--	--	--	--	--	--	--	--	--								
Length (feet)	--	--	7	7	--	--	--	--	--	--	--	--	--								
Price/Foot (\$)	--	--	\$32.37	\$69.63	--	--	--	--	--	--	--	--	--								

All suppliers \$30.85 \$44.13 70%  
 Only suppliers that have both 3" and 6" \$30.85 \$57.26 54% 33.50034

## **Appendix D**

E & J Gallo Winery Statewide Compliance Certification



N-1237  
E&J Gallo Winery-Livingston  
Compliance Certification Statement  
For Federal Major Permit Modifications  
Compliance with District Rule 2201, Section 4.15.2

"I certify under penalty of law that all major stationary sources (Title V facilities) operated under my control in California are compliant with all applicable air emissions limitations and standards. The facilities included in this certification statement include the E&J Gallo Winery-Fresno, the E&J Gallo Winery-Livingston, and the E&J Gallo Winery-Modesto."



Mr. Steve Kidd  
Vice President of Operations

06/21/16

Date

## **Appendix E**

### Quarterly Net Emissions Change (QNEC) Calculations

## Quarterly Net Emissions Change (QNEC)

The Quarterly Net Emissions Change is used to complete the emission profile screen for the District's PAS database. Since these tanks are all new emission units, the QNEC shall be calculated as follows:

QNEC = PE2 - PE1, where:

- QNEC = Quarterly Net Emissions Change for each emissions unit, lb/qtr.
- PE2 = Post Project Potential to Emit for each emissions unit, lb/qtr.
- PE1 = Pre-Project Potential to Emit for each emissions unit, lb/qtr.

Using the values in Sections VII.C.2 and VII.C.6 in the evaluation above, quarterly PE2 and quarterly PE1 can be calculated as follows:

N-1237-788 through '-795 (50,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 73 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 18.25 \text{ lb VOC/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb VOC/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	18.25	0	18.25

N-1237-796 through '-815 (85,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 125 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 31.25 \text{ lb VOC/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb VOC/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	31.25	0	31.25

N-1237-816 through '836 (105,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 154 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 38.5 \text{ lb VOC/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb VOC/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	38.5	0	38.5

N-1237-837 through '860 (215,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 315 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 78.75 \text{ lb VOC/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb VOC/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	78.75	0	78.75

N-1237-861 through '864 (350,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 514 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 128.5 \text{ lb VOC/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb VOC/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	128.5	0	128.5

N-1237-865 through '-880 (430,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 631 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 157.75 \text{ lb PM}_{10}\text{/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb PM}_{10}\text{/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	157.75	0	157.75

N-1237-881 and '-882 (640,000 gallon storage tanks):

$$\begin{aligned} \text{PE2}_{\text{quarterly}} &= \text{PE2}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 657 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 164.25 \text{ lb PM}_{10}\text{/qtr} \end{aligned}$$

$$\begin{aligned} \text{PE1}_{\text{quarterly}} &= \text{PE1}_{\text{annual}} \div 4 \text{ quarters/year} \\ &= 0 \text{ lb/year} \div 4 \text{ qtr/year} \\ &= 0 \text{ lb PM}_{10}\text{/qtr} \end{aligned}$$

Quarterly NEC [QNEC]			
Pollutant	PE2 (lb/qtr)	PE1 (lb/qtr)	QNEC (lb/qtr)
VOC	164.25	0	164.25

## **Appendix F**

Draft ATCs N-1237-788-0 through '-882-0

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-788-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

N-1237-788-0 Aug 16 2016 6 08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-789-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-789-0 Aug 16 2016 6:06AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-790-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-790-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-791-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-791-0 Aug 18 2016 6:08AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-792-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-792-0 Aug 18 2016 6:08AM -- BROWND - Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** N-1237-793-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services  
N-1237-793-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

## AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-794-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

### EQUIPMENT DESCRIPTION:

50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

## CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services

N-1237-794-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-795-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

50,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 50 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 27 lb, 2nd quarter - 27 lb, 3rd quarter - 28 lb, and fourth quarter - 28 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-795-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 14.75 feet in diameter and 40 feet in height with a proposed volume of 50,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 50,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 73 lb-VOC/year (equivalent to 500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-796-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-796-0 Aug 15 2016 6:08AM - BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-797-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-797-0 Aug 10 2016 6:05AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-798-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-798-0 Aug 16 2016 6:06AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-799-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-799-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-800-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-800-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-801-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK(TANK 85 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-801-0 Aug 18, 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-802-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-802-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-803-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjollet, Director of Permit Services**  
N-1237-803-0 Aug 16 2018 6:08AM -- BROWN - Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-804-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjollet, Director of Permit Services**  
N-1237-804-0 Aug 16 2016 6:08AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-805-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle**, Director of Permit Services  
N-1237-805-0 Aug 16 2016 6:08AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

DRAFT

PERMIT NO: N-1237-806-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services  
N-1237-806-0 Aug 16 2016 6:08AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-807-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-807-0 Aug 16 2016 6:09AM - BROWND Joint Inspection NOT Required

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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-808-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-808-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

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6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-809-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-809-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-810-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-810-0 Aug 16 2016 4:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-811-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-811-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-812-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

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Arnaud Marjolle, Director of Permit Services  
N-1237-812-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

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LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-813-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-814-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-814-0 Aug 16 2018 6:09AM -- BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-815-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
85,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 85 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 47 lb, 2nd quarter - 47 lb, 3rd quarter - 47 lb, and fourth quarter - 47 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjollet, Director of Permit Services**  
N-1237-815-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 19 feet in diameter and 40 feet in height with a proposed volume of 85,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 85,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 125 lb-VOC/year (equivalent to 850,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-816-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-816-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-817-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-817-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-818-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjollet, Director of Permit Services**  
N-1237-818-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-819-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-819-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-820-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-820-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-821-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-821-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

DRAFT

PERMIT NO: N-1237-822-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

DRAFT

Arnaud Marjolle, Director of Permit Services  
N-1237-822-0 Aug 16 2016 6:09AM - BROWND - Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-823-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-823-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-824-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-824-0 Aug 18 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

## AUTHORITY TO CONSTRUCT

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-825-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

### EQUIPMENT DESCRIPTION:

105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

## CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services

N-1237-825-0 Aug 16 2016 6:06AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-826-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-826-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-827-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-827-0 Aug 16 2016 @ 09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
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12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-828-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-828-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-829-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-829-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

DRAFT

PERMIT NO: N-1237-830-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

DRAFT

Arnaud Marjolle, Director of Permit Services  
N-1237-830-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-831-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services

N-1237-831-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-832-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK EQUIPPED (TANK 105 Q)  
WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-832-0 Aug 16 2016 6:09AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-833-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-833-0 Aug 16 2016 6:09AM -- BROWNND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-834-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-834-0 Aug 16 2016 6:10AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-835-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-835-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-836-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
105,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 105 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 57 lb, 2nd quarter - 58 lb, 3rd quarter - 58 lb, and fourth quarter - 58 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-836-0 Aug 16 2016 6 10AM - BROWNND Joint Inspection NOT Required

5. The nominal tank dimensions are 21.08 feet in diameter and 40 feet in height with a proposed volume of 105,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 105,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 154 lb-VOC/year (equivalent to 1,050,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** N-1237-837-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services  
N-1237-837-0 Aug 16 2016 6:10AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-838-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjollet, Director of Permit Services

N-1237-838-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-839-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**

N-1237-839-0 Aug 16 2016 6 10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE: DRAFT**

**PERMIT NO:** N-1237-840-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services

N-1237-840-0 Aug 16 2016 6 10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-841-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-841-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-842-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjollet, Director of Permit Services  
N-1237-842-0 Aug 19 2016 6:10AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-843-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-843-0 Aug 16 2016 6:16AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

DRAFT  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-844-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services

N-1237-844-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-845-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-845-0 Aug 16 2016 6:10AM -- BROWND - Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-846-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-846-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-847-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-847-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-848-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-848-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-849-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-849-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

DRAFT  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-850-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-850-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-851-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-851-0 Aug 16 2016 6:10AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-852-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 P) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-852-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

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DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-853-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 Q) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjollet, Director of Permit Services  
N-1237-853-0 Aug 16 2019 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-854-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 R) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-854-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-855-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 S) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-855-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

DRAFT  
ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-856-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 T) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

DRAFT

Arnaud Marjolle, Director of Permit Services  
N-1237-856-0 Aug 16 2016 6:10AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
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10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-857-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 U) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjollet, Director of Permit Services**  
N-1237-857-0 Aug 16 2016 6:10AM -- BROWND - Joint Inspection NOT Required

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-858-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 V) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-858-0 Aug 16 2016 6:10AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-859-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 W) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-859-0 Aug 16 2016 6:10AM - BROWND - Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-860-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

215,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 215 X) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 118 lb, 2nd quarter - 118 lb, 3rd quarter - 118 lb, and fourth quarter - 119 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-860-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 30.16 feet in diameter and 40 feet in height with a proposed volume of 215,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 215,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 315 lb-VOC/year (equivalent to 2,150,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-861-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-861-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-862-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-862-0 Aug 16 2016 6:11AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-863-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-863-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-864-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

350,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 350 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 192 lb, 2nd quarter - 193 lb, 3rd quarter - 193 lb, and fourth quarter - 193 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-864-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 39.08 feet in diameter and 40 feet in height with a proposed volume of 350,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 350,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 514 lb-VOC/year (equivalent to 3,500,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

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San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-865-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-865-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-866-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-866-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-867-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 C) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU **MUST** NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-867-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-868-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

EQUIPMENT DESCRIPTION:  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 D) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-868-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-869-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 E) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-869-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-870-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 F) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-870-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-871-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 G) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-871-0 Aug 16 2016 6 11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-872-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 H) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-872-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-873-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 I) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-873-0 Aug 16 2016 6:11AM - BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-874-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 J) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director / APCO

**DRAFT**

Arnaud Marjolle, Director of Permit Services  
N-1237-874-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
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8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**ISSUANCE DATE:** DRAFT

**PERMIT NO:** N-1237-875-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 K) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-875-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

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San Joaquin Valley  
Air Pollution Control District

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LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 L) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 236 lb, 2nd quarter - 237 lb, 3rd quarter - 237 lb, and fourth quarter - 237 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-876-0 Aug 15 2016 6 11 AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-877-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 M) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-877-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-878-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**  
430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 N) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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CONDITIONS CONTINUE ON NEXT PAGE

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Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-878-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT

PERMIT NO: N-1237-879-0

LEGAL OWNER OR OPERATOR: E & J GALLO WINERY  
MAILING ADDRESS: ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

LOCATION: 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

430,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 430 O) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

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Seyed Sadredin, Executive Director / APCO

Arnaud Marjolle, Director of Permit Services  
N-1237-879-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-880-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

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**Arnaud Marjolle, Director of Permit Services**  
N-1237-880-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

5. The nominal tank dimensions are 42.75 feet in diameter and 40 feet in height with a proposed volume of 430,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rule 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 430,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 631 lb-VOC/year (equivalent to 4,300,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
14. The operator shall maintain records of the calculated rolling 12-month wine ethanol content and storage throughput rate (ethanol percentage by volume and gallons per rolling 12-month period, calculated monthly). [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
15. If the throughput or ethanol content calculated for any rolling 12-month period exceeds the annual throughput or ethanol content limitations of this permit, in a crush season in which the start of the crush season (defined as the day on which the facility's seasonal crushing/fermentation operations commence) occurs less than 365 days after the start of the previous crush season, then no violation of the throughput or ethanol content limits for that rolling 12-month period will be deemed to have occurred so long as the calendar year throughput and ethanol content are below the annual throughput and ethanol content limitations. [District Rule 2201] Federally Enforceable Through Title V Permit
16. Records shall be maintained that demonstrate the date of each year's start of crush season. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
17. All records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 2201 and 4694] Federally Enforceable Through Title V Permit

DRAFT



San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

**DRAFT**  
ISSUANCE DATE: DRAFT

**PERMIT NO:** N-1237-881-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 A) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Prior to operating equipment under this Authority to Construct, permittee shall surrender VOC emission reduction credits for the following quantity of emissions: 1st quarter - 246 lb, 2nd quarter - 246 lb, 3rd quarter - 247 lb, and fourth quarter - 247 lb. These amounts include the applicable offset ratio specified in Rule 2201 Section 4.8 (as amended 2/18/16). [District Rule 2201] Federally Enforceable Through Title V Permit
4. ERC Certificate Numbers S-4727-1, S-4601-1, S-4354-1, S-4442-1, S-4381-1, S-4480-1, S-4414-1, C-1071-1, C-1229-1, or N-2-1 (or a certificate split from these certificates) shall be used to supply the required offsets, unless a revised offsetting proposal is received and approved by the District, upon which this Authority to Construct shall be reissued, administratively specifying the new offsetting proposal. Original public noticing requirements, if any, shall be duplicated prior to reissuance of this Authority to Construct. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

**YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT.** This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director, APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-881-0 Aug 16 2016 6:11AM -- BROWND Jomil Inspection NOT Required

5. The nominal tank dimensions are 50.92 feet in diameter and 42 feet in height with a proposed volume of 640,000 gallons. The permittee shall submit to the District the gauge volume of the tank within 30 days of the actual tank capacity measurement. [District Rule 2201] Federally Enforceable Through Title V Permit
6. This tank shall be equipped with and operated with a pressure-vacuum relief valve, which shall operate within 10% of the maximum allowable working pressure of the tank, operate in accordance with the manufacturer's instructions, and be permanently labeled with the operating pressure settings. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
7. The pressure-vacuum relief valve and storage tank shall remain in a gas-tight condition, except when the operating pressure of the tank exceeds the valve set pressure. A gas-tight condition shall be determined by measuring the gas leak in accordance with the procedures in EPA Method 21. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
8. The temperature of the wine stored in this tank shall be maintained at or below 75 degrees Fahrenheit. The temperature of the stored wine shall be determined and recorded at least once per week. For each batch of wine, the operator shall achieve the storage temperature of 75 degrees Fahrenheit or less within 60 days after completing fermentation, and shall maintain records to show when the required storage temperature of 75 degrees Fahrenheit or less was achieved. [District Rules 2201 and 4694] Federally Enforceable Through Title V Permit
9. The weighted annual average ethanol content of wine stored in this tank, calculated on a rolling 12-month basis, shall not exceed 15 percent by volume. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum wine storage throughput in this tank shall not exceed 640,000 gallons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum wine storage emissions in this tank, calculated on a rolling 12-month basis, shall not exceed 657 lb-VOC/year (equivalent to 4,480,000 gallons of wine throughput per year). [District Rule 2201] Federally Enforceable Through Title V Permit
12. The operator shall record, on a weekly basis, the total gallons of wine contained in the tank and the maximum temperature of the stored wine. [District Rule 4694] Federally Enforceable Through Title V Permit
13. Daily throughput records, including records of filling and emptying operations, the dates of such operations, a unique identifier for each batch, the volume percent ethanol in the batch, and the volume of wine transferred, shall be maintained. [District Rules 1070 and 2201] Federally Enforceable Through Title V Permit
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DRAFT

San Joaquin Valley  
Air Pollution Control District

**AUTHORITY TO CONSTRUCT**

ISSUANCE DATE: DRAFT  
**DRAFT**

**PERMIT NO:** N-1237-882-0

**LEGAL OWNER OR OPERATOR:** E & J GALLO WINERY  
**MAILING ADDRESS:** ATTN: EHS MANAGER  
18000 W RIVER RD  
LIVINGSTON, CA 95334

**LOCATION:** 18000 W RIVER RD  
LIVINGSTON, CA 95334

**EQUIPMENT DESCRIPTION:**

640,000 GALLON NOMINAL STAINLESS STEEL ENCLOSED TOP WINE STORAGE TANK (TANK 640 B) EQUIPPED WITH INSULATION AND PRESSURE/VACUUM RELIEF VALVE

**CONDITIONS**

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Seyed Sadredin, Executive Director / APCO

**Arnaud Marjolle, Director of Permit Services**  
N-1237-882-0 Aug 16 2016 6:11AM -- BROWND Joint Inspection NOT Required

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