GRANT REQUEST FORM (GRF) CEC-270 (Revised 10/2015)



New Agreement	t <u>FPI-18-020</u>	(To be complete	d by CGL Office)								
Division			Agreement Manager:				MS- Phone				
ERDD			Chie Yee	Yang		51		916-327-1536			
Recipient's Leg								ID Number			
E & J Gallo Win	ery					94-1	0096	696			
Title of Project											
Refrigeration Co	ompressor Replacem	ent and Cont	rols Optimiza	tion							
	Start Date					Amount					
Amount 6/28/2019			3/31/2023			\$ 922,151					
	ing Information										
	greements under \$75			Director.		l s					
	ess Meeting Date	6/12/2019		L	Consent		Discussion eded: 5 minutes				
Business Meetir	ng Presenter ne list serve. Select	Kevin Uy			ı ime	Needed:	o mir	nutes			
		ion									
Agenda Item Subject and Description E & J GALLO WINERY. Proposed resolution approving Agreement FPI-18-020 with E & J Gallo Winery for a											
\$922,151 grant	to install energy effici	ient compres	sor packages	at the R	ecipient's wi	ne product					
Livingston, and	adopting staff's deter	mination that	this action is	exempt	from CEQA.						
California Envi	ronmental Quality A	Act (CEOA) C	`omnliance								
	Is Agreement considered a "Project" under CEQA? Yes (skip to question 2) No (complete the following (PRC 21065 and 14 CCR 15378)):										
Explain why	Agreement is not co	onsidered a "F	Project":								
2. If Agreemer	nt is considered a "Pr	oioot" undor (SEOA:								
	ement IS exempt. (At										
	tutory Exemption. Lis			numbe	r:						
	egorical Exemption.				ode Regs., ti	t14 15301,	153	302			
	nmon Sense Exempt										
	eason why Agreemer Each exemption is ar					nnt					
	14 C.C.R. §15301. T						nical	equipment at an			
	existing food process	sing facility in	Livingston, C	A. The p	project will re	place exist	ing i	nefficient			
	equipment at existing										
	emissions. The equip										
	cement pads that mo										
alterations of existing mechanical equipment with no expansion beyond the existing use of the food processing facility and will not have significant effect on the environment. The project falls under											
	categorical exemptio	n listed in 14	C.C.R. §1530)1.			•				
	14 C C D \$ 15202 T	This project in	valvaa tha ra	alaaama	nt of aviation	, maabania	م ام	quipment at an			
	14 C.C.R. § 15302. T existing food process										
	equipment at an exis										
	emissions. The equip										
	cement pads that mo										
located on the same site as the equipment replaced and have substantially the same purpose and capacity as the equipment replaced. The project falls under categorical exemption listed in 14											
	C.C.R. § 15302.	mont ropidoc	d. The projec	t rano ar	idoi odiogon	our oxomp		notod iii i i			
b) Agree	ement IS NOT exemp	t. (Consult w	rith the legal o	office to	determine ne	ext steps.)					
Check all tha			ı	¬	ronmontal l	noot Don-					
	al Study gative Declaration		l		ronmental Im ement of Ove			erations			
	gated Negative Decla	aration	l	State	SITIETIL OF OVE	Triuling CO	iisiu	Cialions			

List all subcontractors (major and minor) and equipment vendors: (attach additional sheets as necessary)

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Legal Company Name:				Budget						
				\$						
List all	l key pai	rtners: (attach a	dditional sheets as nece	essary)						
Legal Company		(0.110.00.00.00.00.00.00.00.00.00.00.00.0		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Budget Informa	ation									
Fund	ding Sour	ce	Funding Year of Appropriation	Budget List No.			Amount			
GGRF			17-18	301.002A		\$922,151				
R&D Program Area: EERO: IAW						TOTAL:	\$922,151			
Explanation for	"Other" s	selection								
Reimbursement	t Contrac	xt #:		Federal Agreement #:						
Recipient's Ad	ministra	tor/ Officer		Recipient's Project Manager						
Name:				Name:		Michael Blaskower				
Address: 18000 River Rd				Address:		18000 River Rd				
City, State, Zip:	Livinast	on. CA 95334-	9516	City, State	City, State, Zip: Livingston, CA 95334-9516					
City, State, Zip: Livingston, CA 95334-9516 Phone: 209-394 -6211 Fax:				Phone:		756-1078	Fax:	1	-	-
E-Mail: Adam.wenz@ejgallo.com				E-Mail:	_	nael.Blowkower@ejgallo.com				
Selection Proc	مءا اءءم				<u>'</u>		, , , , , , , , , , , , , , , , , , ,			
				Solicitation	1 #· C	3FO-18-90	13			
										
The following i	tems sh	ould be attacl	hed to this GRF							
1. Exhibit A, Sc									\square	Attached
Exhibit B, Budget Detail									$\overline{\boxtimes}$	Attached
3. CEC 105, Questionnaire for Identifying Conflicts									\boxtimes	Attached
Recipient Resolution						\boxtimes	N/A		Attached	
5. CEQA Docui	mentatio	n						N/A	\boxtimes	Attached
Agreement Mana	ager	Date	Office Manager	Dat	е	Depu	ity Directo	or		Date

I. TASK ACRONYM/TERM LISTS

A. Task List

Task #	CPR ¹	Task Name
1		General Project Tasks
2		Site Preparation and Equipment Procurement
3	Х	Equipment Installation
4		Measurement and Verification
5		Technology/Knowledge Transfer Activities

B. Acronym/Term List

Acronym/Term	Meaning
CAM	Commission Agreement Manager
CAO	Commission Agreement Officer
CPR	Critical Project Review
GHG	Greenhouse Gas Emissions
M&V	Measurement and Verification
VFD	Variable Frequency Drive

II. PURPOSE OF AGREEMENT, PROBLEM/SOLUTION STATEMENT, AND GOALS AND OBJECTIVES

A. Purpose of Agreement

The purpose of this Agreement is to install refrigeration compressor replacement packages at the E&J Gallo Winery in Livingston, CA that will reduce greenhouse gas (GHG) emissions through reductions in annual energy consumption.

B. Problem/ Solution Statement

Problem

The refrigeration screw compressor packages at the Livingston winery utilize old capacity control technology leading to less efficient refrigeration system operation, higher energy consumption, and operating costs. The existing Sullair refrigeration screw compressors are approximately 30 years old and utilize inefficient slide valve unloading to operate at part load conditions. There are available replacement technologies in the market that would provide immediate improvement to system performance.

Solution

The Recipient will replace aging compressors with newer, energy efficient compressor packages that will produce energy savings and reductions of onsite GHG emissions. One compressor at each plant will utilize variable speed capacity control with a variable speed drive (VFD), and will

¹ Please see subtask 1.3 in Part III of the Scope of Work (General Project Tasks) for a description of Critical Project Review (CPR) Meetings.

act as the lead/trim compressor. This project will exemplify and accelerate the adoption of energy efficient technologies in the food processing industry.

C. Goals and Objectives of the Agreement

Agreement Goals

The goals of this Agreement are to:

- Safely replace existing ammonia screw compressor packages serving the refrigeration load at the Gallo Livingston winery.
- Reduce GHG emissions associated with the energy consumption of the refrigeration system.
- Reduce operating costs.

Agreement Objectives

The objective of this Agreement is to:

- Install screw compressor package and VFD panels.
- Reduce annual refrigeration system energy consumption by 800,000 kWh.

III. TASK 1 GENERAL PROJECT TASKS

PRODUCTS

Subtask 1.1 Products

The goal of this subtask is to establish the requirements for submitting project products (e.g., reports, summaries, plans, and presentation materials). Unless otherwise specified by the Commission Agreement Manager (CAM), the Recipient must deliver products as required below by the dates listed in the **Project Schedule (Part V).** Products that require a draft version are indicated by marking "(draft and final)" after the product name in the "Products" section of the task/subtask. If "(draft and final)" does not appear after the product name, only a final version of the product is required. With respect to due dates within this Scope of Work, "days" means working days.

The Recipient shall:

For products that require a draft version, including the Final Report Outline and Final Report

- Submit all draft products to the CAM for review and comment in accordance with the Project Schedule (Part V). The CAM will provide written comments to the Recipient on the draft product within 15 days of receipt, unless otherwise specified in the task/subtask for which the product is required.
- Consider incorporating all CAM comments into the final product. If the Recipient disagrees
 with any comment, provide a written response explaining why the comment was not
 incorporated into the final product.
- Submit the revised product and responses to comments within 10 days of notice by the CAM, unless the CAM specifies a longer time period, or approves a request for additional time.

For products that require a final version only

 Submit the product to the CAM for acceptance. The CAM may request minor revisions or explanations prior to acceptance.

For all products

Submit all data and documents required as products in accordance with the following:

Instructions for Submitting Electronic Files and Developing Software:

Electronic File Format

Submit all data and documents required as products under this Agreement in an electronic file format that is fully editable and compatible with the Energy Commission's software and Microsoft (MS)-operating computing platforms, or with any other format approved by the CAM. Deliver an electronic copy of the full text of any Agreement data and documents in a format specified by the CAM, such as memory stick or CD-ROM.

The following describes the accepted formats for electronic data and documents provided to the Energy Commission as products under this Agreement, and establishes the software versions that will be required to review and approve all software products:

- Data sets will be in MS Access or MS Excel file format (version 2007 or later), or any other format approved by the CAM.
- Text documents will be in MS Word file format, version 2007 or later.
- Documents intended for public distribution will be in PDF file format.
- The Recipient must also provide the native Microsoft file format.
- Project management documents will be in Microsoft Project file format, version 2007 or later.

Software Application Development

Use the following standard Application Architecture components in compatible versions for any software application development required by this Agreement (e.g., databases, models, modeling tools), unless the CAM approves other software applications such as open source programs:

- Microsoft ASP.NET framework (version 3.5 and up). Recommend 4.0.
- Microsoft Internet Information Services (IIS), (version 6 and up) Recommend 7.5.
- Visual Studio.NET (version 2008 and up). Recommend 2010.
- C# Programming Language with Presentation (UI), Business Object and Data Layers.
- SQL (Structured Query Language).
- Microsoft SQL Server 2008, Stored Procedures. Recommend 2008 R2.
- Microsoft SQL Reporting Services. Recommend 2008 R2.
- XML (external interfaces).

Any exceptions to the Electronic File Format requirements above must be approved in writing by the CAM. The CAM will consult with the Energy Commission's Information Technology Services Branch to determine whether the exceptions are allowable.

MEETINGS

Subtask 1.2 Kick-off Meeting

The goal of this subtask is to establish the lines of communication and procedures for implementing this Agreement.

The Recipient shall:

Attend a "Kick-off" meeting with the CAM, the Commission Agreement Officer (CAO), and
any other Energy Commission staff relevant to the Agreement. The Recipient will bring its
Project Manager and any other individuals designated by the CAM to this meeting. The
administrative and technical aspects of the Agreement will be discussed at the meeting.
Prior to the meeting, the CAM will provide an agenda to all potential meeting participants.
The meeting may take place in person or by electronic conferencing (e.g., WebEx), with
approval of the CAM.

The <u>administrative portion</u> of the meeting will include discussion of the following:

- Terms and conditions of the Agreement;
- Administrative products (subtask 1.1);
- CPR meetings (subtask 1.3);
- Match fund documentation (subtask 1.6);
- Permit documentation (subtask 1.7);
- Subcontracts (subtask 1.8); and
- Any other relevant topics.

The technical portion of the meeting will include discussion of the following:

- The CAM's expectations for accomplishing tasks described in the Scope of Work;
- An updated Project Schedule;
- Technical products (subtask 1.1);
- Progress reports and invoices (subtask 1.5);
- o Final Report (subtask 1.6); and
- Any other relevant topics.
- Provide an Updated Project Schedule, List of Match Funds, and List of Permits, as needed to reflect any changes in the documents.

The CAM shall:

- Designate the date and location of the meeting.
- Send the Recipient a Kick-off Meeting Agenda.

Recipient Products:

- Updated Project Schedule (if applicable)
- Updated List of Match Funds (if applicable)
- Updated List of Permits (if applicable)

CAM Product:

· Kick-off Meeting Agenda

Subtask 1.3 Critical Project Review (CPR) Meetings

The goal of this subtask is to determine if the project should continue to receive Energy Commission funding, and if so whether any modifications must be made to the tasks, products, schedule, or budget. CPR meetings provide the opportunity for frank discussions between the Energy Commission and the Recipient. As determined by the CAM, discussions may include project status, challenges, successes, final report preparation, and progress on technical transfer and production readiness activities (if applicable). Participants will include the CAM and the Recipient, and may include the CAO and any other individuals selected by the CAM to provide support to the Energy Commission.

CPR meetings generally take place at key, predetermined points in the Agreement, as determined by the CAM and as shown in the Task List on page 1 of this Exhibit. However, the CAM may schedule additional CPR meetings as necessary. The budget will be reallocated to cover the additional costs borne by the Recipient, but the overall Agreement amount will not increase. CPR meetings generally take place at the Energy Commission, but they may take place at another location, or may be conducted via electronic conferencing (e.g., WebEx) as determined by the CAM.

The Recipient shall:

- Prepare a *CPR Report* for each CPR meeting that: (1) discusses the progress of the Agreement toward achieving its goals and objectives; and (2) includes recommendations and conclusions regarding continued work on the project.
- Submit the CPR Report along with any other *Task Products* that correspond to the technical task for which the CPR meeting is required (i.e., if a CPR meeting is required for Task 2, submit the Task 2 products along with the CPR Report).
- Attend the CPR meeting.
- Present the CPR Report and any other required information at each CPR meeting.

The CAM shall:

- Determine the location, date, and time of each CPR meeting with the Recipient's input.
- Send the Recipient a CPR Agenda and a List of Expected CPR Participants in advance
 of the CPR meeting. If applicable, the agenda will include a discussion of match funding
 and permits.
- Conduct and make a record of each CPR meeting. Provide the Recipient with a Schedule for Providing a Progress Determination on continuation of the project.
- Determine whether to continue the project, and if so whether modifications are needed to the tasks, schedule, products, or budget for the remainder of the Agreement. If the CAM concludes that satisfactory progress is not being made, this conclusion will be referred to the Deputy Director of the Energy Research and Development Division.
- Provide the Recipient with a *Progress Determination* on continuation of the project, in accordance with the schedule. The Progress Determination may include a requirement that the Recipient revise one or more products.

Recipient Products:

- CPR Report(s)
- Task Products (draft and/or final as specified in the task)

CAM Products:

CPR Agenda

- List of Expected CPR Participants
- Schedule for Providing a Progress Determination
- Progress Determination

Subtask 1.4 Final Meeting

The goal of this subtask is to complete the closeout of this Agreement.

The Recipient shall:

 Meet with Energy Commission staff to present project findings, conclusions, and recommendations. The final meeting must be completed during the closeout of this Agreement. This meeting will be attended by the Recipient and CAM, at a minimum. The (meeting may occur in person or by electronic conferencing (e.g., WebEx), with approval of the CAM.

The technical and administrative aspects of Agreement closeout will be discussed at the meeting, which may be divided into two separate meetings at the CAM's discretion.

- The technical portion of the meeting will involve the presentation of findings, conclusions, and recommended next steps (if any) for the Agreement. The CAM will determine the appropriate meeting participants.
- The administrative portion of the meeting will involve a discussion with the CAM and the CAO of the following Agreement closeout items:
 - Disposition of any state-owned equipment.
 - Need to file a Uniform Commercial Code Financing Statement (Form UCC-1) regarding the Energy Commission's interest in patented technology.
 - The Energy Commission's request for specific "generated" data (not already provided in Agreement products).
 - Need to document the Recipient's disclosure of "subject inventions" developed under the Agreement.
 - "Surviving" Agreement provisions such as repayment provisions and confidential products.
 - Final invoicing and release of retention.
- Prepare a *Final Meeting Agreement Summary* that documents any agreement made between the Recipient and Commission staff during the meeting.
- Prepare a Schedule for Completing Agreement Closeout Activities.
- Provide All Draft and Final Written Products on a CD-ROM or USB memory stick, organized by the tasks in the Agreement.

Products:

- Final Meeting Agreement Summary (if applicable)
- Schedule for Completing Agreement Closeout Activities
- All Draft and Final Written Products

REPORTS AND INVOICES

Subtask 1.5 Progress Reports and Invoices

The goals of this subtask are to: (1) periodically verify that satisfactory and continued progress is made towards achieving the project objectives of this Agreement; and (2) ensure that invoices contain all required information and are submitted in the appropriate format.

The Recipient shall:

- Submit a quarterly *Progress Report* to the CAM. Each progress report must:
 - Summarize progress made on all Agreement activities as specified in the scope of work for the preceding month, including accomplishments, problems, milestones, products, schedule, fiscal status, and an assessment of the ability to complete the Agreement within the current budget and any anticipated cost overruns. See the Progress Report Format Attachment for the recommended specifications.
- Submit a quarterly *Invoice* that follows the instructions in the "Payment of Funds" section of the terms and conditions, including a financial report on Match Fund and in-state expenditures.

Products:

- Progress Reports
- Invoices

Subtask 1.6 Final Report

The goal of this subtask is to prepare a comprehensive Final Report that describes the original purpose, approach, results, and conclusions of the work performed under this Agreement. The CAM will review the Final Report according to the Project Schedule. When creating the Final Report, the Recipient must use the Style Manual provided by the CAM.

The Recipient shall:

- 1) Prepare a *Final Report* for this Agreement in accordance with the Style Manual, and Final Report Template provided by the CAM with the following considerations:
 - Ensure that the report includes the following items, in the following order:
 - Cover page (required)
 - Credits page on the reverse side of cover with legal disclaimer (required)
 - Acknowledgements page (optional)
 - Table of Contents (required, followed by List of Figures and List of Tables. if needed)
 - Executive summary (**required**) following the Executive Summary Template
 - Include a summary table that includes the following information, but is not limited to (required):
 - Recipient name;
 - Project description;
 - Project location(s);
 - Census tract;
 - Dates: project selected and completed;
 - GGRF dollars allocated;
 - Leveraged and/or match funds;
 - Estimated/actual total project GHG emission reductions:
 - Estimated/actual energy saved (kWh, therms, or other fuels) for energy efficiency projects;
 - Estimated/actual energy generated (kWh or therm equivalents) for renewable energy projects;
 - Other benefits or results;
 - o Other market sectors that can benefit from the project

- Benefits to priority populations.
- Appendices Include a copy of the M&V report for each demonstration site funded by the Energy Commission grant). (required)
- Follow the Style Guide format requirements for headings, figures/tables, citations, and acronyms/abbreviations.
- Ensure that the document omits subjective comments and opinions.
 However, recommendations in the conclusion of the report are allowed.
- Submit a draft of the report to the CAM for review and comment according to the project schedule. The CAM will provide written comments to the Recipient on the draft product within 15 days of receipt
- Consider incorporating all CAM comments into the Final Report. If the Recipient disagrees
 with any comment, provide a written response explaining why the comment was not
 incorporated into the final product
- Submit the revised Final Report and responses to comments within 10 days of notice by the CAM, unless the CAM specifies a longer time period or approves a request for additional time.
- Submit one bound copy of the *Final Report* to the CAM along with *Written Responses to Comments on the Draft Final Report*.

Products:

- Final Report (draft and final)
- Written Responses to Comments on the Draft Final Report

CAM Product:

Written Comments on the Draft Final Report

MATCH FUNDS, PERMITS, AND SUBCONTRACTS

Subtask 1.7 Match Funds

The goal of this subtask is to ensure that the Recipient obtains any match funds planned for this Agreement and applies them to the Agreement during the Agreement term.

While the costs to obtain and document match funds are not reimbursable under this Agreement, the Recipient may spend match funds for this task. The Recipient may only spend match funds during the Agreement term, either concurrently or prior to the use of Energy Commission funds. Match funds must be identified in writing, and the Recipient must obtain any associated commitments before incurring any costs for which the Recipient will request reimbursement.

The Recipient shall:

 Prepare a Match Funds Status Letter that documents the match funds committed to this Agreement. If no match funds were part of the proposal that led to the Energy Commission awarding this Agreement and none have been identified at the time this Agreement starts, then state this in the letter.

If match funds were a part of the proposal that led to the Energy Commission awarding this Agreement, then provide in the letter:

A list of the match funds that identifies:

- The amount of cash match funds, their source(s) (including a contact name, address, and telephone number), and the task(s) to which the match funds will be applied.
- The amount of each in-kind contribution, a description of the contribution type (e.g., property, services), the documented market or book value, the source (including a contact name, address, and telephone number), and the task(s) to which the match funds will be applied. If the in-kind contribution is equipment or other tangible or real property, the Recipient must identify its owner and provide a contact name, address, telephone number, and the address where the property is located.
- If different from the solicitation application, provide a letter of commitment from an authorized representative of each source of match funding that the funds or contributions have been secured.
- At the Kick-off meeting, discuss match funds and the impact on the project if they are significantly reduced or not obtained as committed. If applicable, match funds will be included as a line item in the progress reports and will be a topic at CPR meetings.
- Provide a Supplemental Match Funds Notification Letter to the CAM of receipt of additional match funds.
- Provide a Match Funds Reduction Notification Letter to the CAM if existing match funds are reduced during the course of the Agreement. Reduction of match funds may trigger a CPR meeting.

Products:

- Match Funds Status Letter
- Supplemental Match Funds Notification Letter (if applicable)
- Match Funds Reduction Notification Letter (if applicable)

Subtask 1.8 Permits

The goal of this subtask is to obtain all permits required for work completed under this Agreement in advance of the date they are needed to keep the Agreement schedule on track. Permit costs and the expenses associated with obtaining permits are not reimbursable under this Agreement, with the exception of costs incurred by University of California recipients. Permits must be identified and obtained before the Recipient may incur any costs related to the use of the permit(s) for which the Recipient will request reimbursement.

The Recipient shall:

- Prepare a Permit Status Letter that documents the permits required to conduct this Agreement. If <u>no permits</u> are required at the start of this Agreement, then state this in the letter. If permits will be required during the course of the Agreement, provide in the letter:
 - A list of the permits that identifies: (1) the type of permit; and (2) the name, address, and telephone number of the permitting jurisdictions or lead agencies.
 - o The schedule the Recipient will follow in applying for and obtaining the permits.

The list of permits and the schedule for obtaining them will be discussed at the Kick-off meeting (subtask 1.2), and a timetable for submitting the updated list, schedule, and copies of the permits will be developed. The impact on the project if the permits are not obtained in a timely fashion or are denied will also be discussed. If applicable, permits will be included as a line item in progress reports and will be a topic at CPR meetings.

- If during the course of the Agreement additional permits become necessary, then provide the CAM with an *Updated List of Permits* (including the appropriate information on each permit) and an *Updated Schedule for Acquiring Permits*.
- Send the CAM a Copy of Each Approved Permit.
- If during the course of the Agreement permits are not obtained on time or are denied, notify the CAM within 5 days. Either of these events may trigger a CPR meeting.

Products:

- Permit Status Letter
- Updated List of Permits (if applicable)
- Updated Schedule for Acquiring Permits (if applicable)
- Copy of Each Approved Permit (if applicable)

Subtask 1.9 Subcontracts

The goals of this subtask are to: (1) procure subcontracts required to carry out the tasks under this Agreement; and (2) ensure that the subcontracts are consistent with the terms and conditions of this Agreement.

The Recipient shall:

- Manage and coordinate subcontractor activities in accordance with the requirements of this Agreement.
- Incorporate this Agreement by reference into each subcontract.
- Include any required Energy Commission flow-down provisions in each subcontract, in addition to a statement that the terms of this Agreement will prevail if they conflict with the subcontract terms.
- If required by the CAM, submit a draft of each *Subcontract* required to conduct the work under this Agreement.
- Submit a final copy of the executed subcontract.
- Notify and receive written approval from the CAM prior to adding any new subcontractors (see the discussion of subcontractor additions in the terms and conditions).

Products:

• Subcontracts (draft if required by the CAM)

IV. TECHNICAL TASKS

Products that require a draft version are indicated by marking "(draft and final)" after the product name in the "Products" section of the task/subtask. If "(draft and final)" does not appear after the product name, only a final version of the product is required. **Subtask 1.1 (Products)** describes the procedure for submitting products to the CAM.

TASK 2 SITE PREPARATION AND EQUIPMENT PROCUREMENT

The goal of this task is to plan the necessary steps for site preparation at the Recipient's facility and procure the necessary equipment and materials for this project.

The Recipient shall:

- Prepare mechanical, electrical, and structural engineering drawings and submit to Merced County for plan check
- Develop request for proposed materials based on the engineering drawings to get installation bids from refrigeration and electrical contractors
- Update drawings based on plan check comments and pull authority to construct permits related to mechanical, structural, and electrical installation
- Enter into contract with equipment vendor to account for the screw compressor lead time
- Provide a Site Preparation and Equipment Procurement Memo (Plant 2 and 6) that shall include, but not be limited to:
 - Summary of the steps to prepare the site
 - o Copy of the performance specifications for each equipment purchased for the grant
 - Summary of the bids received and from whom
 - o Copies of all required permits needed for installation at each site
 - Status of the planned installation including preliminary schedule for equipment delivery and installation for each site.
- Provide a Site Preparation and Equipment Procurement Memo (Plant North Alley and South Alley) that shall include, but not be limited to:
 - Summary of the steps to prepare the site
 - Copy of the performance specifications for each equipment purchased for the grant
 - Summary of the bids received and from whom
 - o Copies of all required permits needed for installation at each site
 - Status of the planned installation including preliminary schedule for equipment delivery and installation for each site.

Products:

- Site Preparation and Equipment Procurement Memo (Plant 2 and 6)
- Site Preparation and Equipment Procurement Memo (Plant North Alley and South Alley)

TASK 3 EQUIPMENT INSTALLATION

The goal of this task is to install the necessary equipment for this project.

Startup and commissioning requirements will include vibration testing with equipment vendor startup personnel, verifying communications between the compressor controller and the main refrigeration system PLC controller, and observations to ensure that the slide valve remains at 100% and capacity is controlled through varying compressor motor speed.

The Recipient shall:

- Pump down the refrigeration systems and safely isolate the existing compressors
- Disconnect electrical connections and cut refrigeration piping connections in order to remove existing compressors
- Demolish existing concrete housekeeping pad
- Pour new concrete housekeeping pad per compressor manufacturer requirements
- Install new compressor package and VFD, welding all piping connections and completing power and control wiring utilizing existing electrical feeders
- Modify existing PLC program to place the new VFD compressors as the lead/trim compressor in the compressor sequencing logic
- Start-up and commission equipment and make adjustments as needed to meet stated performance specification (includes vibration testing with vendor startup personnel)
- Provide an Equipment Installation Memo (Plant 2 and Plant 6) that shall include, but not be limited to:
 - Summary of the equipment installation requirements for each demonstration site;
 - Identification of barriers involved during installation and discuss the steps taken to overcome those barriers;
 - Discuss results of equipment start-up and commissioning at each site with respect to whether the equipment as installed meets the stated performance specifications.
- Provide an Equipment Installation Memo (Plant North Alley and Plant South Alley) that shall include, but not be limited to:
 - o Summary of the equipment installation requirements for each demonstration site;
 - Identification of barriers involved during installation and discuss the steps taken to overcome those barriers;
 - Discuss results of equipment start-up and commissioning at each site with respect to whether the equipment as installed meets the stated performance specifications.
- Prepare CPR Report and participate in CPR meeting.

Products:

- Equipment Installation Memo (Plant 2 and Plant 6) (draft and final)
- Equipment Installation Memo (Plant North Alley and Plant South Alley) (draft and final)
- CPR Report #1

TASK 4 MEASUREMENT AND VERIFICATION

The goal of this task is to report the benefits resulting from this project. Project team may use inhouse expertise of the project demonstration site or use third party vendor for measurement and verification (M&V) of greenhouse gas and energy consumption reduction.

The Recipient shall:

- Enter into agreement with M&V subcontractor per Task 1.9.
- Coordinate site visits with the M&V subcontractor at the demonstration sites.
- Develop M&V protocol for pre-installation measurement (and calculations) following Section II.B.2 of the grant solicitation manual²:
 - Electric, natural gas and/or other fossil fuel consumption and greenhouse gas emissions (use appropriate emissions factor from Attachment 8 of the grant solicitation) of the equipment/process/system(s)/sub-system(s) that are to be upgraded and/or replaced and/or modified.
 - If necessary, ensure installation of sub-metering equipment and data loggers for pre/post data analysis.
- Prepare and provide a detailed Measurement and Verification Plan for project demonstration sites to include but not be limited to:
 - A description of the monitoring equipment and instrumentation which will be used.
 - A description of the key input parameters and output metrics which will be measured.
 - A description of the M&V protocol and analysis methods to be employed.
- Perform three months (or shorter period as approved in writing by the CAM) of preinstallation measurements (and calculations) based on the M&V protocol for pre-install
- Prepare and provide a Pre-Installation Measurement and Verification Findings Report for each demonstration site that includes M&V protocol, pre-install measurements (and calculations), analysis, and results performed in this task.
- Develop M&V protocol for Post-Installation measurements (or calculations) of:
 - Electric, natural gas and/or other fossil fuel consumption and greenhouse gas emissions (use appropriate emissions factor from Attachment 8 of the grant solicitation) of the equipment/process/system(s)/sub-system(s) that will be upgraded and/or replaced and/or modified
- Perform 12 months (or shorter period as approved in writing by the CAM) of post-installation measurements based on M&V protocol for post-installation.
- Provide a summary of post-installation M&V progress in Progress Report(s) (see subtask
 1.5) which shall include but not be limited to:
 - A narrative on operational highlights from the reporting period, including any stoppages in operation and why; and
 - A summary of M&V findings from the reporting period.
- Analyze post-installation electrical, natural gas and/or other fossil fuel consumption and greenhouse gas emissions.
- Prepare and provide a Post-Installation Measurement and Verification Findings Report for each demonstration site that includes M&V protocol, pre and post install measurements (and calculations), analysis, and results performed in this task. Results should at a minimum report on the reduction of electricity, natural gas and/or other fossil fuel usage and reductions of greenhouse gas emissions that directly result from this project.

²GFO-18-903, Food Production Investment Program, California Energy Commission, November 2018 https://www.energy.ca.gov/contracts/GFO-18-903/

- Provide all key assumptions used to estimate and determine energy and greenhouse gas reductions (and additions, if applicable).
- Provide all key assumptions used to estimate projected benefits, including targeted market sector (e.g., population and geographic location), projected market penetration, baseline and projected energy use and cost, operating conditions, emission reduction calculations, and benefits to disadvantaged communities.

Products:

- Measurement and Verification Plan (draft and final)
- Pre-Installation Measurement and Verification Findings Report (draft and final)
- Post-Installation Measurement and Verification Findings Report(s) (draft and final)

TASK 5 TECHNOLOGY/KNOWLEDGE TRANSFER ACTIVITIES

The goal of this task is to make the knowledge gained, project results, and lessons learned available to the public and key decision makers.

The Recipient shall:

- When directed by the CAM, develop *Presentation Materials* for an Energy Commission-sponsored conference/workshop(s) on the project.
- When directed by the CAM, participate in workshops symposium(s) sponsored by the California Energy Commission.
- Provide at least (6) six High Quality Digital Photographs (minimum resolution of 1300x500 pixels in landscape ratio) of pre and post technology installation at the project site(s) or related project photographs.

Products:

- Presentation Materials (draft and final)
- High Quality Digital Photographs

V. PROJECT SCHEDULE

Please see the attached Excel spreadsheet.

RESOLUTION NO: 2019-0612-11f

STATE OF CALIFORNIA

STATE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

RESOLUTION - RE: E & J GALLO WINERY

RESOLVED, that the State Energy Resources Conservation and Development Commission (Energy Commission) adopts the staff CEQA findings contained in the Agreement or Amendment Request Form (as applicable); and

RESOLVED, that the Energy Commission approves Agreement FPI-18-020 with E & J Gallo Winery for a \$922,151 grant to install energy efficient compressor packages at the Recipient's wine production facility in Livingston, and adopting staff's determination that this action is exempt from CEQA; and

FURTHER BE IT RESOLVED, that the Executive Director or his/her designee shall execute the same on behalf of the Energy Commission.

<u>CERTIFICATION</u>

The undersigned Secretariat to the Commission does hereby certify that the foregoing is a full, true, and correct copy of a Resolution duly and regularly adopted at a meeting of the California Energy Commission held on June 12, 2019.

AYE: [List of Commissioners]
NAY: [List of Commissioners]
ABSENT: [List of Commissioners]
ABSTAIN: [List of Commissioners]

Cody Goldthrite, Secretariat