PROJECT ROUTING FORM

FACILITY NAME: Central Valley Cooperative Inc

FACILITY ID: C-259 PROJECT NUMBER: C-1173456

~~PERMIT #'s:~~ ERC C - 1444

DATE RECEIVED: December 11, 2017

PRELIMINARY REVIEW	ENGR	DATE	SUPR	DATE
A. Application Deemed Incomplete				
Second Information Letter				
B. Application Deemed Complete	AO	1/2/18	[signature]	1/1/18
C. Application Pending Denial				
D. Application Denied				

ENGINEERING EVALUATION	INITIAL	DATE
E. Engineering Evaluation Complete • Project triggering Federal Major Modification: [ ] Yes AND Information entered into database (AirNet) [ ] No (not Fed MMod) • District is Lead Agency for CEQA purposes AND the project GHG emissions increase exceeds 230 metric tons/year: [ ] Yes AND Information Entered in database (AirNet) [ ] Not Required	AO	4/13/18
F. Supervising Engineer Approval Direct Convert [ ] Yes [ ] No	[signature]	5/20/18
G. Compliance Division Approval [ ] Not Required		
H. Applicant's Review of Draft Authority to Construct Completed [ ] 3-day Review [ ] 10-day Review [X] No Review Requested		
I. Minor source with emission increase and SSPE2 > 80% major source threshold: [ ] Yes – send ATC synthetic minor letter and copy of ATC to EPA, [X] No		
J. Permit Services Regional Manager Approval EV 8/1/18	EV EV	8/29/18 10/16/18

DIRECTOR REVIEW [ ] Not Required	INITIAL	DATE
K. Preliminary Approval to Director		
L. Final Approval to Director		

December 11, 2017

Mr. Arnaud Marjollet
Deputy APCO
San Joaquin Valley Unified Air Pollution Control District
1990 E. Gettysburg
Fresno, CA 93726

Re: **Shutdown of Central Valley Cooperative, Inc., (C-259-1-6, C-259-2-6)**

Dear Mr. Marjollet,

Enclosed is an application to shut down the cotton ginning operations located at 9845 Hanford-Armona Road, Hanford, CA. Due to the serious reduction in cotton acreage, it is no longer economically feasible to maintain and operate these cotton gins.

Enclosed are the following:

- ❑ Check in the amount of $832 for the ERC application filing fee
- ❑ ERC application
- ❑ Supplemental Cotton Gin ERC application
- ❑ Production history (bales ginned and fuel consumed)
- ❑ Emission Calculations
- ❑ Letter forfeiting the permit to operate (w/ copy of permit to operate)

The attached documentation should provide the District with the information necessary to complete the processing of the ERC application. However, should you need additional information, please contact me at (559)816-1364, or reach Chris McGlothlin with the California Cotton Ginners and Growers Association at (559)-252-0684.

Sincerely,

Louis Giacomazzi
Manager

C: Chris McGlothlin, CCGGA

AOgden

Received
DEC 11 2017
SJVAPCD

San Joaquin Valley Air Pollution Control District

Application for

☒ EMISSION REDUCTION CREDIT (ERC) ☐ CONSOLIDATION OF ERC CERTIFICATES

1. ERC TO BE ISSUED TO: Central Valley Cooperative Inc. Facility ID: C - 259 (if known)

2. MAILING ADDRESS: Street/P.O. Box: 9845 Hanford-Armona Rd.
City: Hanford State: CA Zip Code: 93230

RECEIVED

3. LOCATION OF REDUCTION:
Street: 9845 Hanford-Armona Rd.
City: Hanford, CA
____/4 SECTION ____ TOWNSHIP ____ RANGE ____

4. DATE OF REDUCTION:
08/18/2016

DEC 11 2017
Permits Services
SJVAPCD

5. PERMIT NO(S): C-259-1-5, C-259-2-4 EXISTING ERC NO(S):

6. METHOD RESULTING IN EMISSION REDUCTION:

☒ SHUTDOWN ☐ RETROFIT ☐ PROCESS CHANGE ☐ OTHER

DESCRIPTION: Shutdown of existing cotton gin.

(Use additional sheets if necessary)

7. REQUESTED ERCs (In Pounds Per Calendar Quarter):

	VOC	NOx	CO	PM10	SOx	OTHER
1ST QUARTER						
2ND QUARTER						
3RD QUARTER						
4TH QUARTER	29.16	486	97.2	12,054.13	14.58	567.65

8. SIGNATURE OF APPLICANT: Louis Giacommazi

TYPE OR PRINT TITLE OF APPLICANT: Manager

9. TYPE OR PRINT NAME OF APPLICANT: Louis Giacommazi

DATE: 12-11-2017

TELEPHONE NO: 559-816-1364

FOR APCD USE ONLY:

DATE STAMP
RECEIVED
DEC 11 2017
FINANCE
SJVUAPCD

FILING FEE RECEIVED: $ 832.00 , # 1074
DATE PAID: 12-11-17
PROJECT NO.: C1173456 FACILITY ID.: C259

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
SUPPLEMENTAL APPLICATION FORM

COTTON GINS
Emission Reduction Credit (ERC)

(This form must be accompanied by a completed Application for Emission Reduction Credit form.)

Certificate to be Issued to:	**Central Valley Cooperative Gin**
Gin Location:	**9845 Hanford-Armona Road, Hanford, CA**

1. Are the emission reductions due to the installation of control equipment at an existing cotton gin? **n/a**

   If "yes", please list the Authority (-ies) to Construct authorizing the installation: **n/a**

2. Are the emission reductions due to the shut-down of a cotton gin? **Yes**

   If "yes", please list the applicable Permit to Operate number(s): **C-259-1-6** / C-259-2-4

3. What date did the emission reductions occur? (if #1 above applies, when was the gin first operated after control equipment was installed? If #2 applies, when was the gin last operated, or when was the Permit to Operate surrendered?)

   MM/DD/YY: **08/22/2016**

4. Submit operational data for the five consecutive seasons prior to the reduction (if the emission reductions are result of the installation of control equipment, submit for the five years prior to the issuance of the applicable ATC):

Season	2011	2012	2013	2014	2015
Start MM/DD/YY	**10/18/11**	**10/18/12**	**10/01/13**	**10/14/14**	**10/12/15**
End MM/DD/YY	**12/17/11**	**12/17/12**	**11/16/13**	**12/09/14**	**12/01/15**
No. of Bales*	**17,847**	**17,293**	**10,941**	**8,095**	**4,997**

*Number of bales after correcting to 500 pounds per bale.

(Please continue on other side)

5. Provide emission factors (EF) in pounds of PM_{10} emissions per 500 pound bale:

System	Pre-mod or Pre-shutdown EF	References
Totals	**1.02 (C-259-1-6)**	Permit/ Source Test
Totals	**0.92 (C-259-2-4)**	Permit/ Source Test

Central Valley Cooperative

Most closely matches 5 yr. average -

ERCs Today

Year	Bales	2 yr. Ave.	3 yr ave	4 yr ave	5 yr ave
2006	25766				
2007	16172	20969			
2008	10508	13340			
2009	11629	11068.5			
2010	15536	13582.5			
2011	17847	16691.5			
2012	17293	17570			
2013	10941	14117	15360.3		
2014	8095	9518	12109.7	13544.0	
2015	4997	6546	8011.0	10331.5	11834.6
Average =	**13878.4**				

ERC Calculations

Baseline Period

2012-2013	14117.0	bales/yr
	7058.5	bales/gin/year

Permit Emission Limit

PM10 =	1.02	lb PM10/bale (C-259-1-6)
	0.92	lb PM10/bale (C-259-2-6)

Historical Actual Emissions

HAE= baseline bales x emission factor

HAE=	**7,199.7**	**lb PM10/yr (C-259-1-6)**
HAE=	**6,493.8**	**lb PM10/yr (C-259-2-6)**

Actual Emission Reductions

AER = HAE

AER =	**7,199.7**	**lb PM10/yr (C-259-1-6)**
AER =	**6,493.8**	**lb PM10/yr (C-259-2-6)**

Emissions Reduction Credits

ERCs = AER - AQID

ERCs =	**6,479.7**	**lb PM10/yr (C-259-1-6)**
ERCs =	**5,844.20**	**lb PM10/yr (C-259-2-6)**

Outlook Mail

Search Mail and People

New | Reply | Delete Archive Junk | Sweep Move to Categories ...

Folders

Inbox

Junk Email 1

Drafts 16

Sent Items

Deleted Items 7

Archive

Important

Central Valley Cooperative - 10 year volume

Townsend, Greg - AMS <Greg.Townsend@ams.usda.gov>
Today, 8:00 AM
You

Good Morning Louis,

See below for total bales classed in each year, going back to 2005:

2015	4997
2014	8095
2013	10941
2012	17293
2011	17847
2010	15536
2009	11629
2008	10509
2007	16172
2006	25766
2005	36048

Let me know if I can help you with anything else,
Greg

Greg Townsend
Area Director
USDA, AMS, Cotton Program
Visalia Cotton Classing Office
7100 W. Sunnyview Ave.
Visalia, CA 93291
559-651-3015
559-651-0752 fax

Upgrade to Premium

The Gas Company

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9

SERVICE

CENTRAL VALLEY COOP

9845 HANFORD ARMONA RD

HANFORD CA 93230-6232

DATE MAILED Nov 1, 2012

Our Service

1-800-427-2000 *English*

1-800-427-6029 *Español*

www.socalgas.com

H H

Account Summary

Amount of Last Bill	$69.61
Payment Received	- .00
Current Charges	+ 2,824.81
Total Amount Due	**$2,755.20**

7% Late Payment Charge Due If Paid After NOV 28, 2012

DATE DUE Nov 26, 2012

AMOUNT DUE $2,755.20

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 (*Next scheduled read date Dec 3 2012*) Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/12 - 10/30/12	28	061512	057247	4265	0.000	1.029	4389

GAS CHARGES Amount($)

Customer Charge	28 Days x $.49315	13.81
Gas Transportation *(Details below)*	4,389 Therms	

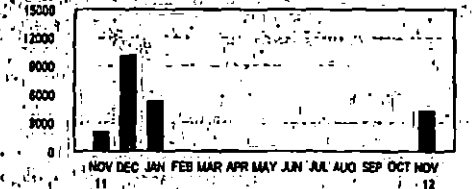
	Tier 1	Tier 2	Tier 3	
Therms used	250	3,917	222	
Rate/Therm	$.49382	$.24889	$.08467	
Charge	$123.46	+ $974.90	+ $18.80	= 1,117.16

Gas Commodity	4,389 Therms x $.31542	1,384.38
	Total Gas Charges	**$2,515.35**

TAXES & FEES ON GAS CHARGES Amount($)

State Regulatory Fee	4,389 Therms x $.00068	2.98
Public Purpose Surcharge	4,389 Therms x $.06983	306.48
	Total Taxes and Fees on Gas Charges	**$309.46**
	Total Current Charges	**$2,824.81**

Gas Usage History *(Total Therms used)*



	Nov 11	Oct 12	Nov 12
Total Therms used	2,080	0	4,389
Daily average Therms	74.3	0	156.8
Days in billing cycle	28	32	28

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on Thanksgiving Day, November 22 and Friday, November 23, 2012. Call us early to schedule service.

The Gas Company's gas commodity cost per therm for your billing period:

Nov. . . . . $.35831 Oct. . . . . $.31542

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

The Gas Company
A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9
SEF FOR
CEN RAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Dec 5, 2012
4 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

H H

Account Summary

Amount of Last Bill			$2,755.20
Payment Received	11/16/12	THANK YOU	2,755.20
Current Charges			+ 6,589.57
Total Amount Due			**$5,589.57**

7% Late Payment Charge Due If Paid After DEC 31, 2012

DATE DUE Dec 27, 2012

AMOUNT DUE $5,589.57

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Jan 3 2013)* Cycle: 2

Billing Period		Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/30/12	12/03/12	34	070486	061512	8974	0.000	1.042	9351

GAS CHARGES Amount($)

Customer Charge	34 Days x $.49315	16.77
Gas Transportation *(Details below)*	9,351 Therms	

	Tier 1	Tier 2	Tier 3	
Therms used	250	3,917	5,184	
Rate/Therm	$.49382	$.24889	$.08467	
Charge	$123.46	+ $974.90	+ $438.93	= 1,537.29

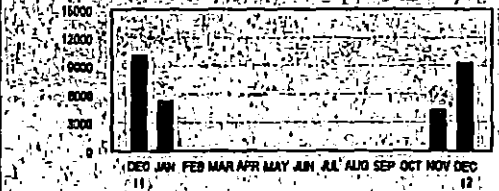
Gas Commodity	9,351 Therms x $.36105	3,376.17
	Total Gas Charges	**$4,930.23**

TAXES & FEES ON GAS CHARGES Amount($)

State Regulatory Fee	9,351 Therms x $.00068	6.36
Public Purpose Surcharge	9,351 Therms x $.06983	652.98
	Total Taxes and Fees on Gas Charges	**$659.34**

Total Current Charges $5,589.57

Gas Usage History *(Total Therms used)*



	Dec 11	Nov 12	Dec 12
Total Therms used	10,197	4,389	9,351
Daily average Therms	291.3	156.8	275.0
Days in billing cycle	35	28	34

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

"***Avoid holiday delays*** Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com"

The Gas Company's gas commodity cost per therm for your billing period:

Dec. . . . . $.40358 Nov. . . . . $.35831
Oct. . . . . $.31542

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

Sempra Energy utility®

24 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

Account Summary

Amount of Last Bill			$3.32
Payment Received	10/17/13	THANK YOU	- 3.32
Current Charges			+ 1,727.24
Total Amount Due			**$1,727.24**

7% Late Payment Charge Due If Paid After NOV 26, 2013

DATE DUE Nov 22, 2013
AMOUNT DUE $1,727.24

Current Charges

Rate: GN-10 - Non-Residential
Meter Number: 10575936 (*Next scheduled read date Dec 3 2013*) Cycle: 2

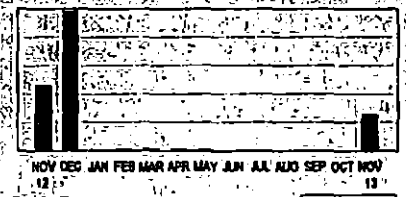
Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/13 - 10/30/13	28	073349	071022	2327	0.000	1.034	2406

GAS CHARGES		Amount($)
Customer Charge	28 Days x $.49315	13.81
Gas Transportation *(Details below)*	2,406 Therms	

	Tier 1	Tier 2		
Therms used	250	2,156		
Rate/Therm	$.51689	$.25785		
Charge	$129.22	+ $555.92	=	685.14
Gas Commodity		2,406 Therms x $.37375		899.25
			Total Gas Charges	**$1,598.20**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	2,406 Therms x $.00068	1.64
Public Purpose Surcharge	2,406 Therms x $.05295	127.40
	Total Taxes and Fees on Gas Charges	**$129.04**
	Total Current Charges	**$1,727.24**

Gas Usage History *(Total Therms used)*



	Nov 12	Oct 13	Nov 13
Total Therms used	4,389	4	2,406
Daily average Therms	156.6	.1	85.9
Days in billing cycle	28	29	28

Postage costs keep going up. Save money on stamps and start paying your bill online. Sign up through "My Account" at socalgas.com today.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on Thanksgiving Day, November 28 and Friday, November 29, 2013. Call us early to schedule service.

The Gas Company's gas commodity cost per therm for your billing period:
Nov. . . . . $.41255 Oct. . . . . $.37375

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Dec 5, 2013
24 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*

Sempra Energy utility

www.socalgas.com

H H

Account Summary

Amount of Last Bill			$1,727.24
Payment Received	11/21/13	THANK YOU	- 1,727.24
Current Charges			+ 1,962.94
Total Amount Due			**$1,962.94**

.7% Late Payment Charge Due if Paid After DEC 31, 2013

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Jan 3 2014)* Cycle: 2

Billing Period	Days	Current Reading	- Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/30/13 - 12/03/13	34	075853	073349	2504	0.000	1.040	2604

GAS CHARGES

		Amount($)
Customer Charge	34 Days x $.49315	16.77
Gas Transportation *(Details below)*	2,604 Therms	

	Tier 1	Tier 2		
Therms used	250	2,354		
Rate/Therm	$.51689	$.25785		
Charge	$129.22	+ $606.98	=	736.20

Gas Commodity	2,604 Therms x $.41103	1,070.32
	Total Gas Charges	**$1,823.29**

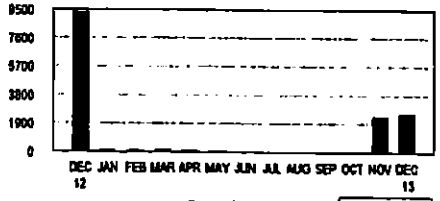
TAXES & FEES ON GAS CHARGES

		Amount($)
State Regulatory Fee	2,604 Therms x $.00068	1.77
Public Purpose Surcharge	2,604 Therms x $.05295	137.88
	Total Taxes and Fees on Gas Charges	**$139.65**
	Total Current Charges	**$1,962.94**

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

DATE DUE	Dec 27, 2013
AMOUNT DUE	$1,962.94

Gas Usage History *(Total Therms used)*



	Dec 12	Nov 13	Dec 13
Total Therms used	9,351	2,406	2,604
Daily average Therms	275.0	85.9	76.6
Days in billing cycle	34	28	34

Postage costs keep going up. Save money on stamps and start paying your bill online. Sign up through "My Account" at socalgas.com today.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com.

The Gas Company's gas commodity cost per therm for your billing period:
Dec. . . . . .$.40837 Nov. . . . . .$.41255
Oct. . . . . .$.37375

SERVICE
CENTR[illegible]VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

[illegible]ur Service
1-[illegible]-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

sempra Energy utility

Account Summary

Amount of Last Bill			$1,962.94
Payment Received	12/19/13	THANK YOU	- 1,962.94
Current Charges			+ 1,782.42
Total Amount Due			**$1,782.42**

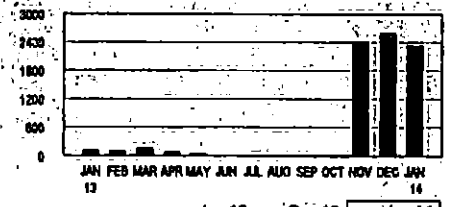
DATE DUE Feb 14, 2014

AMOUNT DUE $1,782.42

Estimated Bill - We were unable to obtain an accurate meter reading during this billing period, therefore your gas usage has been estimated. Future bills may be adjusted upward or downward based on an actual read.

..7% Late Payment Charge Due If Paid After FEB 19, 2014

Gas Usage History *(Total Therms used)*



	Jan 13	Dec 13	Jan 14
Total Therms used	118	2,604	2,338
Daily average Therms	3.8	76.6	75.4
Days in billing cycle	31	34	31

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Feb 4 2014)* Cycle: 2

Billing Period	Days	Current Reading	- Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/13 - 01/03/14	31	078136	075853	2283	0.000	1.024	2338

GAS CHARGES		Amount($)
Customer Charge	31 Days x $.49315	15.29
Gas Transportation *(Details below)*	2,338 Therms	

	Tier 1	Tier 2		
Therms used	250	2,088		
Rate/Therm	$.51802	$.25929		
Charge	$129.51	+ $541.40	=	670.91
Gas Commodity		2,338 Therms x $.41503		970.34
			Total Gas Charges	**$1,656.54**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	2,338 Therms x $.00068	1.59
Public Purpose Surcharge	2,338 Therms x $.05316	124.29
	Total Taxes and Fees on Gas Charges	**$125.88**

(Continued on next page)

CARE ***Special Discount*** You may be eligible for the California Alternate Rates for Energy (CARE) program. For more information or to apply online, go to socalgas.com (search "CARE"). Or call 1-800-427-2200 to request an application.

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.47715 Dec. . . . . $.40837

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

The Gas Company

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD,CA 93230-6232

DATE MAILED Dec 5, 2014 Page 1 of 2

24 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

Account Summary

Amount of Last Bill	$978.30
Payment Received	- 00
Current Charges	+ 2,350.38
Total Amount Due	**$1,372.08**

7% Late Payment Charge Due if Paid After DEC 31, 2014

DATE DUE Dec 29, 2014

AMOUNT DUE $1,372.08

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Jan 5 2015)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/30/14 - 12/03/14	34	079374	076430	2944	0.000	1.048	3085

GAS CHARGES Amount($)

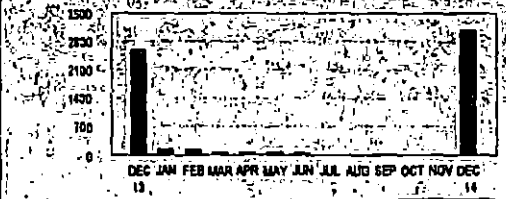
Customer Charge	34 Days x $.49315	16.77
Gas Transportation *(Details below)*	3,085 Therms	

	Tier 1	Tier 2		
Therms used	250	2,835		
Rate/Therm	$.49828	$.25524		
Charge	$124.57	+ $723.61	=	848.18
Gas Commodity		3,085 Therms x $.42574		1,313.41
			Total Gas Charges	**$2,178.36**

TAXES & FEES ON GAS CHARGES Amount($)

State Regulatory Fee	3,085 Therms x $.00068	2.10
Public Purpose Surcharge	3,085 Therms x $.05508	169.92
	Total Taxes and Fees on Gas Charges	**$172.02**
	Total Current Charges	**$2,350.38**

Gas Usage History *(Total Therms used)*



	Dec 13	Nov 14	Dec 14
Total Therms used	2,604	4	3,085
Daily average Therms	76.6	.1	90.7
Days in billing cycle	34	28	34

SoCalGas® is bringing in the New Year with a modern look. Watch for our new logo in January.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com.

The Gas Company's gas commodity cost per therm for your billing period:

Dec. . . . . $.48676 Nov. . . . . $.41899
Oct. . . . . $.44500

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PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

SoCalGas
Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Jan 6, 2015

1 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

H H

Account Summary

Amount of Last Bill			$1,372.08
Payment Received	12/11/14	THANK YOU	-1,372.08
Current Charges			+1,528.02
Total Amount Due			**$1,528.02**

DATE DUE Jan 27, 2015

AMOUNT DUE $1,528.02

7% Late Payment Charge Due If Paid After JAN 29, 2015

This bill reflects modified gas charges due to a rate change.

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Feb 4 2015)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/14 - 01/05/15	33	081140	079374	1768	0.000	1.047	1849

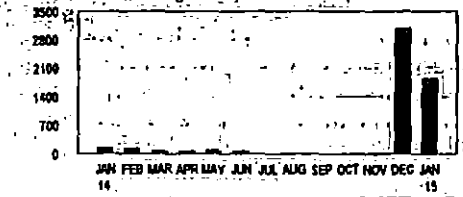
GAS CHARGES		Amount($)
Customer Charge	33 Days x $.49315	16.27
Gas Transportation *(Details below)*	1,849 Therms	

	Tier 1	Tier 2		
Therms used	250	1,599		
Rate/Therm	$.50554	$.26057		
Charge	$126.39	+ $416.65	=	543.04
Gas Commodity		1,849 Therms x $.46471		859.25
			Total Gas Charges	**$1,418.56**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	1,849 Therms x $.00068	1.26
Public Purpose Surcharge	1,849 Therms x $.05852	108.20
	Total Taxes and Fees on Gas Charges	**$109.46**

Total Current Charges $1,528.02

Gas Usage History *(Total Therms used)*



	Jan 14	Dec 14	Jan 15
Total Therms used	152	3,085	1,849
Daily average Therms	4.9	90.7	56.0
Days in billing cycle	31	34	33

Our logo has changed, but that's all. SoCalGas® is the same company you've trusted to provide safe and reliable natural gas service for over 140 years.

CARE ***Special Discount*** You may be eligible for the California Alternate Rates for Energy (CARE) program. For more information or to apply online, go to socalgas.com (search "CARE"). Or call 1-800-427-2200 to request an application.

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.34124 Dec. . . . . $.48676

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Nov 3, 2015

SoCalGas
Sempra Energy utility

24 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

Account Summary

Amount of Last Bill	$118.89
Payment Received	-.00
Current Charges	+ 914.93
Total Amount Due	**$796.04**

7% Late Payment Charge Due If Paid After NOV 30, 2015

DATE DUE Nov 24, 2015

AMOUNT DUE $796.04

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 (*Next scheduled read date Dec 3 2015*) Cycle: 2

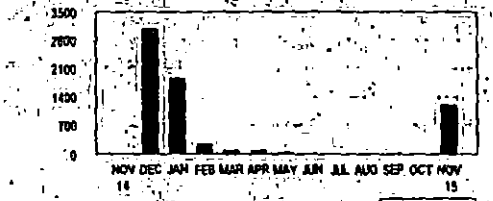
Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/15 - 10/30/15	28	082765	081595	1170	0.000	1.035	1211

GAS CHARGES			Amount($)
Customer Charge	28 Days x $.49315		13.81
Gas Transportation (*Details below*)	1,211 Therms		

	Tier 1	Tier 2		
Therms used	250	961		
Rate/Therm	$.54727	$.29141		
Charge	$136.82	+ $280.05	=	416.87
Gas Commodity	1,211 Therms x $.32136			389.17
			Total Gas Charges	**$819.85**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	1,211 Therms x $.00068	.82
Public Purpose Surcharge	1,211 Therms x $.07784	94.26
	Total Taxes and Fees on Gas Charges	**$95.08**
	Total Current Charges	**$914.93**

Gas Usage History (*Total Therms used*)



	Nov 14	Oct 15	Nov 15
Total Therms used	4	0	1,211
Daily average Therms	.1	0	43.3
Days in billing cycle	28	30	28

SoCalGas performs periodic safety inspections of its gas meters and piping around the meter. To complete these inspections, safe access to the gas meter is needed and the area around the gas meter must be clear of shrubs, trees, fences and other structures.

The Gas Company's gas commodity cost per therm for your billing period:
Nov. . . . . $.27684 Oct. . . . . $.32136

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SoCalGas
A Sempra Energy utility

ACCOUNT NUMBER: 024 917 5313 9
SERVICE FOR:
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Jan 7, 2016

Your Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

Did you overlook paying your last bill? Please pay the total amount due to avoid collection notices. Disregard this message if payment was already made. Thank you.

Account Summary

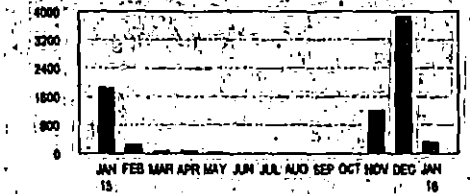
Amount of Last Bill		$3,385.38
Payment Received	12/10/15 THANK YOU	- 796.04
Current Charges		+ 314.18
Total Amount Due		**$2,903.52**

7% Late Payment Charge Due If Paid After FEB 01, 2016

This bill reflects modified gas charges due to a rate change.

	Due By	Amount
Past Due	Now	$2,589.34
Current Charges	1/28/16	$314.18
Total Amount Due		$2,903.52

Gas Usage History *(Total Therms used)*



	Jan 15	Dec 15	Jan 16
Total Therms used	1,049	3,838	337
Daily average Therms	56.0	112.9	10.2
Days in billing cycle	33	34	33

Take advantage of our helpful conservation tips. Save energy and money this winter and all year round. Visit socalgas.com (search "WINTER").

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Feb 4 2016)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/15 - 01/05/16	33	086734	086410	324	0.000	1.040	337

GAS CHARGES		Amount($)
Customer Charge	33 Days x $.49315	16.27
Gas Transportation *(Details below)*	337 Therms	

	Tier 1	Tier 2		
Therms used	250	87		
Rate/Therm	$.55662	$.30258		
Charge	$139.16	+ $26.32	=	165.48

Gas Commodity	337 Therms x $.31545	106.30
	Total Gas Charges	**$288.05**

(Continued on next page)

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.27193 Dec. . . . . $.32322

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Emission Reduction Credit Banking Application Review

Shutdown of a Cotton Ginning Operation

Facility Name:	Central Valley Cooperative Inc.	Date:	August 1, 2018
Mailing Address:	9845 Hanford-Armona Rd Hanford, CA 93230	Engineer:	Andrea Ogden
		Lead Engineer:	Joven Refuerzo
Contact Person:	Louis Giacommazi		
Telephone:	(559) 816-1364		
Facility:	C-259		
Project #:	C-1173456		
Deemed Complete:	February 12, 2018		

I. Summary

Central Valley Cooperative Inc. operated a cotton ginning facility in Hanford, CA. On December 11, 2017, the District received an application from the operator who surrendered the Permit to Operate, C-259-1-6 and -2-6 for the cotton gin and requested Emission Reduction Credits (ERCs) for VOC, NOx, CO, PM_{10}, SOx, and CO_2e. A copy of the surrendered Permit to Operate (PTO) is attached (Attachment A) and the permit has been cancelled. During the last season of operation in 2015, the facility processed 4,997 bales of cotton.

Based on the historical operating data prior to the shutdown, the amounts of bankable ERCs (as calculated in Section V of this document) are shown in the table below. The calculations in Section V are according to the provisions of District Rules 2201 and 2301.

Bankable Emissions Reductions Credits (ERCs)				
Pollutant	1st Qtr ERC (lb/qtr)	2nd Qtr ERC (lb/qtr)	3rd Qtr ERC (lb/qtr)	4th Qtr ERC (lb/qtr)
NOx	10	0	0	85
SOx	0	0	0	0
PM_{10}	1,206	0	0	9,721
CO	2	0	0	17
VOC	1	0	0	4

The District is also proposing to issue the Greenhouse Gas (GHG) ERCs for carbon dioxide equivalent (CO_2e). The amount of bankable CO_2e emissions, shown in the table below, are calculated in Section V of this document according to the provisions of District Rules 2201 and 2301.

Bankable GHG Emissions	
Pollutant	ERC (metric tons/year)
CO_2e	56

II. Applicable Rules

Rule 2301 - Emission Reduction Credit Banking (Last amended 1/19/12)

III. Location of Reductions

Physical location of equipment: 9845 Hanford-Armona Rd in Hanford, Kings County, CA.

IV. Method of Generating Reductions

The AER's were generated by the shutting down a cotton gin. The equipment description for the units are as follows:

C-259-1-6: COTTON GIN (#1 EAST SIDE) WITH 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 3 MMBTU/HR LINT CLEANER DRYER #3 FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -2), BATTERY CONDENSER, SEED STORAGE SHELTER WITH TWO BLOWERS FOR SEED AERATION AND PNEUMATIC SEED TRANSPORTATION

C-259-2-6: COTTON GIN (#2 WEST SIDE) WITH 3 CONTINENTAL SAW GIN STANDS, 6 LINT CLEANERS AND CONDENSERS, 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 1 MMBTU/HR LINT CLEANER DRYER #3, FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -1), BATTERY CONDENSER, TRASH SYSTEM AND MODULE FEEDER

The gin was limited by permit condition to a ginning rate of not to exceed 720 bales per day for saw gin operation #1 and not to exceed 720 bales per day for saw gin operation #2. PTOs C-259-1-6 and C-259-2-6 were surrendered on December 11, 2017.

V. Calculations

A. Assumptions

Particulate Emissions from Ginning Operation:

- Annual criteria pollutant emissions are rounded to the nearest pound and annual GHG emissions are rounded to the nearest metric ton (District practice).
- Ginning rate not to exceed 720 bales, corrected to 500 lb-bales (permit limit).
- Based on applicant information for the operating seasons prior to the shutdown (from 2011 to 2015), shown below, the typical operating schedule is 24 hours per day, 54

days average per year in the fourth quarter, and 7 days average per year in the first quarter.

- $PM_{2.5}$ fraction (% of the PM_{10} that is also $PM_{2.5}$) = 1.9% (Attachment F).

Cotton Gin Operating Dates					
Season	2011	2012	2013	2014	2015
Start date	Oct 18, 2011	Oct 18,2012	Oct 1, 2013	Oct 14, 2014	Oct 12, 2015
End date	Jan 17, 2012	Jan 17, 2013	Nov 16, 2013	Dec 9, 2014	Dec 1, 2015
4th Quarter days	60	60	46	56	50
1st Quarter days	17	17	0	0	0
No of Bales	17,847	17,293	10,941	8,095	4,997

Natural Gas Combustion from Cotton Dryers:

- The cotton gins included one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. All burners were fired on natural gas.
- The GHG emission factor for fuel combustion includes emissions of CO_2, CH_4, and N_2O
- Conversion: 1,000 kg = 1 metric ton.
- Conversion: 1 MMBtu = 10 therm.

The applicant provided production and fuel usage records for the last ten years. In instances where the applicant-provided production rate or fuel quantity does not match the emissions inventory submitted for that year, the most conservative (lowest) values will be used in calculations. The following table shows the most conservative (lowest) cotton production and fuel usage data from either the applicant or the emission inventory.

Production and Fuel Use Data		
Year	Total Production (Bales)	Natural Gas Used (Therms)
2006	25,766	--
2007	16,172	--
2008	10,508	--
2009	11,629	--
2010	15,536	--
2011	17,847	--
2012	17,293	13,740
2013	10,941	7,348
2014	8,095	4,934
2015	4,997	1,548
Average	**13,878**	**6,893**

B. Emission Factors (EF)

Cotton Ginning Emissions

The PTO allowed the operation of two saw-type cotton gins and included emission limits for for both operations. The overall emission limit on the PTO for saw-type gin #1 operation was

1.02 lb-PM_{10}/bale (see Attachment A, permit condition # 8) and the overall emission limit for saw-type gin #2 operation was 0.92 lb-PM_{10}/bale (see Attachment A, permit condition # 8).

District Policy APR 1110 *Use of Revised Generally Accepted Emission Factors* establishes "criteria for the use of emission factors and to address New Source Review (NSR) and Emission Reduction Credits (ERCs) issues when using revised Generally Accepted Emission Factors". Basically, the policy directs the use of emission factors (EF) that reflect "best data" when estimating emissions. For example, where facility-specific Continuous Emissions Monitoring or source test data is available, it will be used (unless it is in violation of permit conditions or other requirements).

There are no source test results for operation of the saw-gin equipment. For equipment where there are no facility-specific source test data, the most accurate EF information is data from the California Cotton Ginners Association Handbook (CCGAH) which is based on a compilation of EFs from source tests on Valley cotton gins.

The source test results and the EFs from the CCGAH and the PTO are shown in the following table for saw-type cotton gins. The following table also summarizes the best emission factor for use in calculations. Note that no emission factor that is higher than the permit limit will be used for calculating emissions for the operations.

Saw Gin

Comparison of 2010 CCGAH Emission Factors and the Permitted Emissions Factors Saw Gin

System	Cyclone Design	Source Test Result (lb-PM_{10}/bale)	CCGAH EFs (lb-PM_{10}/bale)	EF Used for Calculations (lb-PM_{10}/bale)
Unloading	1D-3D	No Data	0.11	0.11
#1 Pre-cleaner	1D-3D	No Data	0.11	0.11
#2 Pre-cleaner	1D-3D	No Data	0.09	0.09
Overflow	1D-3D	No Data	0.04	0.04
Feeder Dust System	1D-3D	No Data	0.08	0.08
Gin Stand / Feeder Trash System	1D-3D	No Data	0.08	0.08
Lint Cleaning	1D-3D	No Data	0.09	0.09
Battery Condenser	1D-3D	No Data	0.03	0.03
Lint Trash / Robber	1D-3D	No Data	0.06	0.06
Motes	1D-3D	No Data	0.07	0.07
Motes Transfer	1D-3D	No Data	0.07	0.07
Motes Cleaner Trash	1D-3D	No Data	0.03	0.03
Total		No Data	0.86	0.86

As shown above, the total emissions factor for the saw gin operation is 0.86 lb-PM_{10}/bale based on the use of the best data in the CCGAH.

Summary of Total EFs for Saw Gin

The following table summarizes the emission factors for the saw gin for use in calculations.

Determine EF for Calculations	
	Total EF, lb-PM_{10}/ton
Saw Gin	0.86

Natural Gas Combustion:

The cotton gin included burners that provided heated air to control the moisture content of the cotton. These burners were fired on natural gas and ERCs are requested from their shutdown. The PTO indicates natural gas combustion emission factors, so the EFs from the permit shall be used.

Burner Emission Factors		
Operation	Emission Rate	Source
Natural Gas combustion in the heater	0.1 lb-NO_x/MMBtu	PTO
	0.0003 lb-SO_x/MMBtu	PTO
	0[2]	AP-42, Table 1.5-1 (10/96)
	0.02 lb-CO/MMBtu	PTO
	0.006 lb-VOC/MMBtu	PTO

[2] Since combustion emissions from the dryers are discharged through the cyclones, the dryer PM_{10} emissions are included with the ginning cyclone emission factors.

For combustion sources, GHGs include the following three "well-mixed" compounds: carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). The following greenhouse gas (GHG) EFs are from 40 CFR Part 98, Subpart C, Tables C-1 and C-2:

Greenhouse Gas Emission Factors for Natural Gas		
GHG	EF, kg/MMBtu	EF, lb/MMBtu
CO_2	53.06	116.98
CH_4	0.001	0.0022
N_2O	0.0001	0.0002

Carbon dioxide equivalents (CO_2e) are determined by multiplying the mass emission factor by the Global Warming Potential (GWP) for the GHG pollutant. The following GWPs are from District Rule 2301 (*Emission Reduction Credit Banking*):

GHG GWP	
GHG	GWP, lb-CO_2e/lb-GHG
CO_2	1
CH_4	21
N_2O	310

An overall CO_2e emission factor is determined by combining the GHG EFs with the GWP for the respective pollutant as follows:

CO_2e EF = (116.98 lb-CO_2/MMBtu x 1 lb-CO_2e/lb-CO_2) + (0.0022 lb-CH_4/MMBtu × 21 lb-CO_2e/lb-CH_4) + (0.0002 lb-N_2O/MMBtu × 310 lb-CO_2e/lb-N_2O)
= 117.09 lb-CO_2e/MMBtu
= 117.09 lb-CO_2e/MMBtu × kg/2.2046 lb × metric ton/1,000 kg
= 0.0531 metric tons-CO_2e/MMBtu

C. Baseline Period Determination and Data

Baseline Period Determination

In accordance with District Rule 2201, Section 3.8, the baseline period is the two consecutive years of operation immediately prior to the submission of the complete application, or another period of at least two consecutive years within the five years immediately prior to the submission of the complete application, if it is more representative of normal source operations.

The PTO for the cotton ginning operation was surrendered by the facility on December 11, 2017, and the application to bank the ERCs from the shutdown of the operation was received on December 11, 2017. The applicant provided Ginning Summary records from the Visalia Classing Office of the United States Department of Agriculture (USDA), Agricultural Marketing Service, Cotton Program (see Appendix C this document) that show the last production season ended in 2015 (December 1, 2015 was the end of the last production season for this site per the applicant's records).

Since cotton ginning is a seasonal operation, as shown previously in Section V.A of this document in the table "Cotton Gin Operation Dates", the periods in between operating seasons cannot be used to determine normal source operation. Therefore, the period from October 2011 through the end of 2015 will be used as the five year period of normal operation from which the baseline period will be determined.

Baseline Period Determination Data

The ginning operations were seasonal with the actual annual throughput depending on the size of the cotton harvest. Because the harvest can vary significantly from year to year, a ten-year average is used in this evaluation to determine the normal source operation (NSO). Cotton throughput and natural gas usage was provided by the operator or gathered from the emissions inventories submitted by the facility for the specific year, whichever is more conservative (as previously discussed). The appropriate cotton throughput and fuel usage values are shown in the table below.

The difference between the two-year average and NSO is calculated using the following formula:

Difference = [(Year 1 Rate + Year 2 Rate) ÷ 2] – (5-year Average Rate)

An example calculation of the difference (absolute value) is shown below for the 2011 and 2012 period.

Difference = [(17,847 bales + 17,293 bales) ÷ 2] – 11,835 bales
= 17,570 bales – 11,835 bales
= 5,735 bales/year

The calculation is repeated in the following table for cotton production and fuel usage for each two-year period in the five year period from 2011 to 2015. Note that, as previously discussed in Section V.A, production records for the past 10 years are shown for the purpose of determining the normal source operation (NSO).

Historical Production and Fuel Use Data				
Year	Throughput (bales/year)	Fuel Used (therms/year)	Difference between two-year average and NSO (bales/year)	Difference between two-year average and NSO (therms/year)
2006	25,766	–		
2007	16,172	--		
2008	10,508	--		
2009	11,629	--		
2010	15,536	--		
2011	17,847	--		
			5,735	1,356
2012	17,293	13,740		
			2,282	5,030
2013	10,941	7,348		
			-2,317	629
2014	8,095	4,934		
			-5,289	-2,273
2015	4,997	1,548		
10-year Average	13,878	5,514		

For the five years immediately preceding the shutdown (2011-2015), the period matching the normal source operation (NSO) ten-year average is 2012-2013. Therefore, the baseline period is 2012-2013.

- During the baseline period of 2012-2013, the facility was operated in the fourth and first quarters.
- The average annual cotton throughput during the baseline period of 2012-2013 was 14,117 bales [(17,293 + 10,941) ÷ 2]
- The calcualted average throughput for the baseline period of 2012-2013 resulted in PM_{10} emissions that were less than the annual limit for PM_{10} emissions. The following calculations demonstrate that the permitted emissions limits were not exceeded. For the purpose of this demonstration, the following calculations show the annual emissions using the emission limits from the PTO.

Saw gin emissions, lb/year = 0.86 lb-PM_{10}/bale × 14,117 bales/year
= 12,141 lb-PM_{10}/year < 65,127 lb-PM_{10}/year (PTO conditions #7 & 8)

- The average annual Natural Gas consumption during the baseline period of 2012-2013 was 10,544 therms [(13,740 + 7,348) ÷ 2].
- Natural Gas consumption was not limited by a permit condition (either a daily or annual limit).

D. Historical Actual Emission (HAE) Calculations

The Historical Actual Emissions (HAE) are calculated using the following formulas and the emission factors and throughputs as discussed above. Results are shown in the following tables:

Cotton Ginning HAE – Saw Gin Operation

$HAE_{saw\ ginning}$ = EF, lb/bale × 14,117 bales/year

Historical Actual Emissions ($HAE_{saw\ ginning}$)			
Pollutant	EF (lb-PM_{10}/bale)	Throughput (bales/year)	HAE lb/year
PM_{10}	0.86	14,117	12,141

Natural Gas Combustion HAE

HAE_{NG} = EF, lb/MMBtu × 0.1 MMBtu/therm × 10,544 therm/year

Historical Actual Emissions (HAE_{LPG})				
Pollutant	EF lb/MMBtu	Throughput therm/year	Conversion MMBtu/therm	HAE lb/year
NO_x	0.1	10,544	0.1	105
SO_x	0.0003	10,544	0.1	0
PM_{10}	0	10,544	0.1	0
CO	0.02	10,544	0.1	21
VOC	0.006	10,544	0.1	6

Greenhouse Gases (GHG) HAE

HAE_{GHG} = EF, lb/MMBtu × 0.094 MMBtu/therm × 102,634 therm/year

Historical Actual Emissions (HAE_{GHG})				
Pollutant	EF metric tons-CO_2e/MMBtu	Throughput therm/year	Conversion MMBtu/therm	HAE metric tons-CO_2e/year
CO_2e	0.0531	10,544	0.1	56

E. Adjustment to Historical Actual Emissions (HAE)

Emissions Adjusted for Rule 4204 - Cotton Gins

Rule 4204 (Cotton Gins) requires cotton gins to use 1D-3D cyclones, with emissions equivalent to the emission factors from the latest revision of the CCGA handbook, by July 1, 2008. Pursuant to Section 3.22 of Rule 2201, Historical Actual Emissions must be discounted for any emissions reduction which is: required or encumbered by any laws, rules, regulations, agreements, orders, or, proposed in the District Air Quality Plan for attaining the annual reductions required by the California Clean Air Act. The cotton gin was in compliance with this rule at the time of the ERC application submittal. All the cotton gin's systems were controlled by 1D-3D cyclones. Therefore, no adjustments are needed for these systems.

Emissions Adjusted for Rule 4309 - Dryers, Dehydrators, and Ovens

District Rule 4309 (Dryers, Dehydrators, and Ovens), Section 4.1.6 specifically exempts units used to dry lint cotton or cotton at cotton gins. The dryers at this facility are used to dry cotton; therefore, the dryers in this operation are exempt from requirements of this rule and no adjustment is necessary.

Total Adjusted Historical Actual Emissions (HAE)

The total adjustment is equal to the sum of the adjusted parts. There were no adjustments made to the Historical Actual Emissions for NO_x, SO_x, PM_{10}, CO, or VOC. Therefore the HAE will be equal to the values calculated in Section V.C of this evaluation.

F. Post Project Potential to Emit (PE2)

As discussed above, the subject equipment has been permanently shut down and the PTO was surrendered to the District. Therefore, the PE2 = 0 for all emissions.

G. Air Quality Improvement Deduction

The air quality improvement deduction (AQID), per Rule 2201, Section 3.6, is 10% of the Actual Emission Reductions (AER), before the AER is eligible for banking. The criteria pollutant AER are adjusted for the AQID in the following table:

$$AQID = AER \times 10\%$$

AER Calculations		
Pollutant	AER lb/year	AQID lb/year
NO_x	105	10
SO_x	0	0
PM_{10}	12,141	1,214
CO	21	2
VOC	6	1
Pollutant	HAE metric ton/year	AQID metric ton/year
CO_2e	56	0[1]

[1] The AQID requirement is part of Rule 2201 and therefore only applies to criteria pollutants that are governed by that rule. Calculations for GHG emission reductions are detailed in Rule 2301, Section 4.5, which does not include a provision for an AQID.

H. Emission Reductions Eligible for Banking

As shown previously in Section V.A of this evaluation, for the 2012 and 2013 operating seasons, the facility operated for 76 days in the 4th quarter 2012 and 15 days in the 1st quarter 2013 and 41 days in the 4th quarter 2013 and 0 days in the 1st quarter 2014. Since there were actual emissions in the 1st and 4th quarters of the baseline period, the AER will be split between the two operating quarters. Since the facility does not have operating records of bales and fuel used per quarter, the following formula will be used to determine the quantity of 1st quarter AER as a percentage of the total AER. Calculations are shown in the table below.

1st Qtr AER = (# of 1st Qtr Days ÷ Total # of days) × 100

Determine 1st Quarter % of Total Operation			
Operating Year	1st Qtr Days	Total Days	% Operation of Total in the 1st Qtr
2012	17	77	22.08
2013	0	46	0.00
Average	8.5	61.5	11.04

As calculated in the table above, 11.04% of the bankable AER will be distributed to the first quarter and the remaining 88.96% (100% - 11.04% = 88.96%) will be distributed to the fourth quarter. The bankable ERCs for criteria pollutants are presented in lb/quarter in the following tables while the bankable ERCs for GHG are expressed in metric-tons/year.

First Quarter (Criteria Pollutants)

Bankable AER 1st Quarter				
Pollutant	AER lb/year	AQID lb/year	1st Qtr Operation %	Bankable AER 1st Qtr lb/quarter
NO_x	105	10	11.04	10
SO_x	0	0	11.04	0
PM_{10}	12,141	1,214	11.04	1,206
CO	21	2	11.04	2
VOC	6	1	11.04	1

Fourth Quarter (Criteria Pollutants)

Bankable ERCs 4th Quarter				
Pollutant	AER lb/year	AQID lb/year	4th Qtr Operation %	Bankable AER 4th Qtr lb/quarter
NO_x	105	10	88.96	85
SO_x	0	0	88.96	0
PM_{10}	12,141	1,214	88.96	9,721
CO	21	2	88.96	17
VOC	6	1	88.96	4

Greenhouse Gases

Bankable GHG AER		
Pollutant	AER metric tons/year	Bankable AER metric tons/year
CO_2e	56	56

VI. Compliance

Rule 2301 - Emission Reduction Credit Banking

Section 4.0 - Eligibility of Emission Reductions

Section 4.2, specifies the criteria by which emission reductions, that have occurred after September 19, 1991, are eligible for banking. The emission reductions in this project occurred when the PTO for the cotton ginning equipment was surrendered, effective December 11, 2017. As these emission reductions occurred after September 19, 1991, the criteria in Section 4.2 must been satisfied.

Section 4.2.1 requires that the emission reductions are real, surplus, permanent, quantifiable, and enforceable. The following is a discussion of compliance with Section 4.2.1 requirements for criteria pollutant emissions.

Criteria Pollutant Emissions

Emission Reductions are Real

The emission reductions were generated by the shutdown of cotton gins consisting of one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. The real emissions were calculated from actual historic production throughput and fuel-use data and recognized emission factors. The ginning equipment has been removed from service and the permit was subsequently surrendered to the District. Therefore, the emission reductions satisfy the real requirement.

Emission Reductions are Surplus

There are no laws, rules, regulations, agreements, orders, or permits requiring any of the emission reductions which generated the ERC:

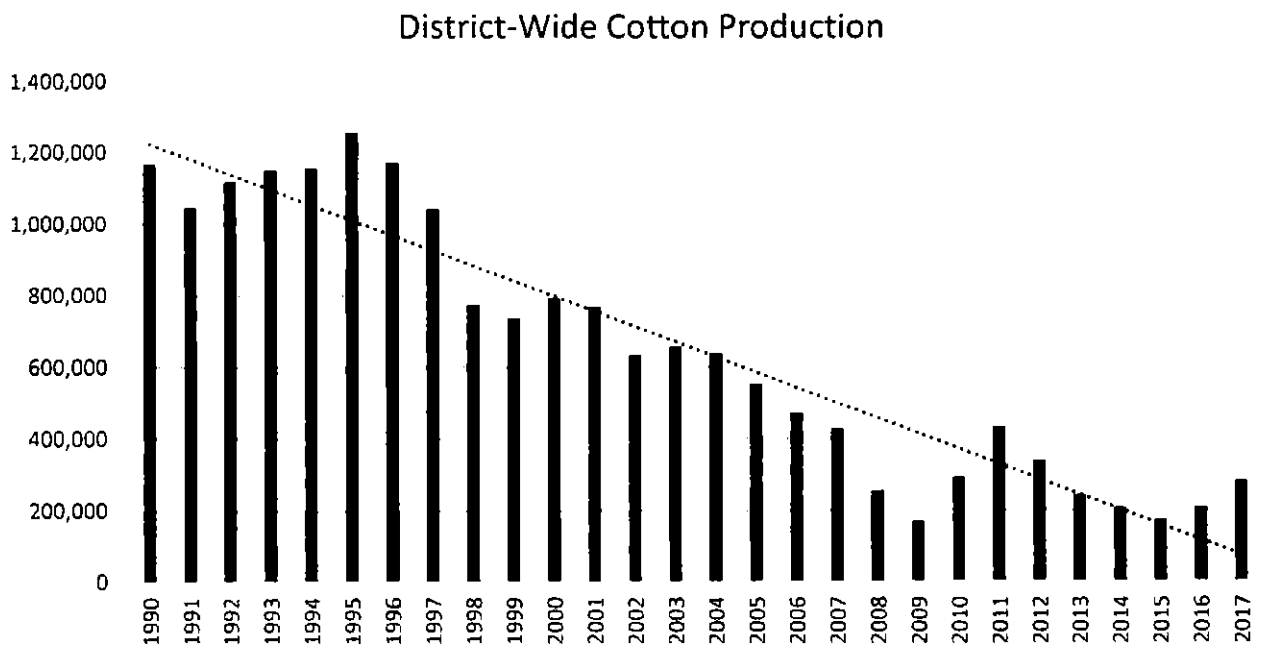
- Shutdown of the gin was voluntary and not required by any law, rule, agreement, or regulation.
- These ERCs are not needed for their current or proposed operations.
- The emission factors are not subject to additional adjustments and are therefore surplus to the requirements of the District's 2007 PM_{10} Maintenance Plan, 2008, 2012, 2015, and 2016 $PM_{2.5}$ Attainment Plans, and District Rule 4204.
- According to the attached records, the gin did not exceed the permitted baling rates and there were no limits on natural gas consumption, so no adjustments are necessary on that basis.
- There are no laws, rules, regulations, agreements, orders, or permits requiring any GHG emission reductions from cotton ginning operations.
- The emission reductions are not the result of an action taken by the permittee to comply with any requirement of Rule 4204 Cotton Gins.

Therefore, the emission reductions satisfy the surplus requirement.

Emission Reductions are Permanent

The gin has been shut down and the PTO has been surrendered. Further operation requires an application to the District for a new operating permit.

Due to the high transportation costs, it is not cost effective to ship field cotton to other locations for processing. As such, the cotton processed at this facility was produced in the surrounding area. As shown in the following table, cotton acreage in the District dropped significantly in the last 28 years. According to the applicant, this decline in cotton production led the closure of this facility. Because of the decline in cotton production, it is expected that there will be no shifting of the past emissions to a similar facility. Therefore, the emission reductions satisfy the surplus requirement.



Cotton acreage as reported by the California Cotton Ginners Association.

Emission Reductions are Quantifiable

Actual Emission Reductions (AER) amounts were calculated from historic process throughput data, source test results from similar operations, California Cotton Ginners Association emission factors, and methods according to District Rule 2201. Therefore, the reductions are quantifiable. Therefore, the emission reductions satisfy the quantifiable requirement.

Emission Reductions are Enforceable

The PTO for this facility has been surrendered and the gins cannot be operated without a valid PTO. Due to the size and complexity of the operation, the large bulk of the material processed, and the amount of lint, seeds, and waste material generated, it would be readily apparent if it were to be operated in the future. Therefore, the emission reductions satisfy the enforceable requirement.

Section 4.2.2 requires that AER be calculated in accordance with the procedure in Rule 2201 (New and Modified Stationary Source Review Rule), including any adjustments for use of Community Bank offsets. As detailed in Section V - Calculations, the AER were calculated according to the procedure in Rule 2201 and the past permitting of the facility did not include Community Bank ERC. Therefore, the emission reductions satisfy the requirements of this section.

Section 4.2.3 requires that an application be filed no later than 180 days after the reduction occurred. The ERC banking application was filed on December 11, 2017, and the PTO was surrendered on December 11, 2017. According to District Policy APR 1805, the date of the shutdown is considered to be the date on which the PTO is surrendered, unless the equipment was removed or the District determines the owner did not intend to operate again.

Since the District has no evidence that either of these were the case, the gin is considered to be operational at time of permit surrender. The application is considered timely and the requirement of this section is satisfied.

Section 4.2.4 applies to emissions from non-permitted units. The gin was permitted so this section is not applicable.

Section 4.3 applies to banking offsets which were provided for cancelled Authorities to Construct. These emissions were not previously banked so this section is not applicable.

Section 4.4 refers to source categories which are not eligible for ERC. The categories do not include gin shutdowns, so this section is not applicable.

Section 4.5 details criteria for determining eligibility of Green House Gas (GHG) emissions for banking. The applicant has requested to bank the GHG AER so this section is applicable.

Section 4.5.1 requires that the GHG emission reductions must have occurred after January 1, 2005. As stated above, the gin was shutdown effective December 11, 2017, so the GHG emission reductions satisfy the requirements of this section.

Section 4.5.2 requires that the reductions must have occurred within the San Joaquin Valley Air Pollution Control District. The emissions occurred at 19813 Madison Ave in Stratford, CA. This location is in Kings County located within the San Joaquin Valley Air Pollution Control District boundaries. Therefore, the GHG emission reductions satisfy the location requirement of this section.

Section 4.5.3 requires that the GHG emission reductions must be real, surplus, permanent, quantifiable, and enforceable. The following is a discussion of compliance with Section 4.5.3 requirements for greenhouse gas emissions

GHG Emissions:

Emission Reductions are Real

The GHG emission reductions were generated by the shutdown of cotton gins consisting of one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. The GHG emissions were calculated from actual historic production throughput and fuel-use data and recognized GHG emission factors. The ginning equipment has been removed from service and the permit was subsequently surrendered to the District. Therefore, the GHG emission reductions satisfy the real requirement.

Emission Reductions are Surplus

There are no laws, rules, regulations, agreements, orders, or permits requiring any of the GHG emission reductions which generated the ERC:

- The shutdown of the gin was voluntary and not required by any law, rule, agreement, or regulation.

- These GHG ERCs are not needed for their current or proposed operations.
- The GHG emission factors are not subject to additional adjustments and are therefore surplus to the requirements of the District's 2007 PM_{10} Maintenance Plan, 2008, 2012, 2015, and 2016 $PM_{2.5}$ Attainment Plans, and District Rule 4204.
- According to the attached records, the gin did not exceed the permitted baling rates and there were no limits on LPG consumption, so no adjustments are necessary on that basis.
- The facility is not in one of the categories subject to CARB GHG cap and trade regulations and there are no other laws, rules, regulations, agreements, orders, or permits requiring any GHG emission reductions from cotton ginning operations.
- The GHG emission reductions are not the result of an action taken by the permittee to comply with any requirement of Rule 4204 Cotton Gins.

Therefore, the GHG emission reductions satisfy the surplus requirement.

Emission Reductions are Permanent

The gin has been shut down, and the PTO has been surrendered. Further operation requires an application to the District.

Due to the high transportation costs, it is not cost effective to ship field cotton to other locations for processing. As such, the cotton processed at this facility was produced in the surrounding area. As was shown in the earlier section, cotton acreage in Kings County dropped significantly in the last 10 years. According to the applicant, this decline in cotton production led the closure of this facility. Because of the decline in production, it is expected that there will be no shifting of the past GHG emissions to a similar facility. Therefore, the GHG emission reductions satisfy the permanent requirement.

Emission Reductions are Quantifiable

Actual Emission Reductions (AER) amounts were calculated from historic process throughput data, EPA and District emission factors, and methods according to District Rules. Therefore, the GHG emission reductions satisfy the quantifiable requirement.

Emission Reductions are Enforceable

The PTO for this facility has been surrendered and the gins cannot be operated without a valid PTO. Due to the size and complexity of the operation, the large bulk of the material processed, and the amount of lint, seeds, and waste material generated, it would be readily apparent if it were to be operated in the future. Therefore, the GHG emission reductions satisfy the enforceable requirement.

Section 4.5.4 requires that GHG emission reductions be calculated as the difference between the historic annual average GHG emissions (as CO_2e) and the PE2 after the reduction is complete. The historical GHG emissions must be calculated using the consecutive 24 month period immediately prior to the date the emission reductions occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as being more representative of normal operations.

The GHG emission reductions were calculated according to the baseline period identified above. Since this is a permanent shutdown of the cotton ginning operation and its associated equipment, with none of the load being shifted to any other cotton gin within the boundaries of the San Joaquin Valley Air Pollution Control District jurisdiction, there is no post-project potential to emit GHG.

Section 4.5.5 requires that GHG emission reductions be quantified using CARB-approved emission reduction project protocols. Since the GHG emission reductions are not subject to an applicable CARB-approved emission reduction project protocol, this section is not applicable.

Section 4.5.6 requires that ERCs shall be made enforceable through permit conditions or legally binding contract. The cotton gin operators held a legal District operating permit. That permit has been surrendered to the District. Since the operation of the equipment would require new ATCs, as discussed above, the GHG emission reduction is enforceable.

Section 5.0 - ERC Application Procedures

Section 5.5 of Rule 2301 states that ERC certificate applications for reductions shall be submitted within 180 days after the emission reduction occurs. The ERC banking application was filed and the PTO was surrendered on December 11, 2017, the and the operations at this location were permanently ceased effective December 11, 2017. Therefore, the application was submitted in a timely fashion.

Section 6.0 - Registration of ERC Certificates

The APCO may only grant an ERC Certificate after the emission reductions have actually occurred upon satisfaction of the following applicable provisions:

Section 6.14 GHG emission reductions shall be banked as metric tons of CO_2e per year, rounded to the nearest metric ton.

The draft GHG ERC is identified as metric tons of CO_2e per year, rounded to the nearest metric ton.

Section 6.15 specifies the registration requirements for GHG ERCs.

This emission reduction is surplus and additional of all requirements pursuant to Section 4.5.3.4. Therefore the ERC certificate shall include the following notation:

"This emission reduction is surplus and additional to all applicable regulatory requirements."

Compliance with Rule 2301 has been demonstrated and no adjustments are required under this rule.

VII. Recommendation

Pending a successful Public Noticing period, issue Emission Reduction Credit (ERC) certificate to Central Valley Cooperative Inc. in accordance with the amounts specified on the draft ERC certificates in Attachment E.

Attachments:

Attachment A: Surrendered PTO C-259-1-6 and -2-6
Attachment B: ERC Application
Attachment C: Cotton Ginning Throughput and natural gas Usage Records
Attachment D: GHG Emission Factors (40 CFR Part 98, Tables A-1, C-1 and C-2) and Global Warming Potentials (GWP) (Rule 2301, Table 1)
Attachment E: Draft ERC Certificates
Attachment F: $PM_{2.5}$ Fraction

Attachment A

Surrendered PTO C-259-1-6 and -2-6

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-259-1-6 **EXPIRATION DATE:** 10/31/2018

EQUIPMENT DESCRIPTION:
COTTON GIN (#1 EAST SIDE) WITH 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 3 MMBTU/HR LINT CLEANER DRYER #3 FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -2), BATTERY CONDENSER, SEED STORAGE SHELTER WITH TWO BLOWERS FOR SEED AERATION AND PNEUMATIC SEED TRANSPORTATION

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201]
6. Daily ginning rate shall not exceed 180 tons of baled cotton per day (720 bales per day, corrected to 500-pound bales). [District Rule 2201]
7. Annual ginning rate shall not exceed 15,962.5 tons of baled cotton per year (63,850 bales/year, corrected to 500-pound bales). [District Rule 2201]
8. PM10 emissions shall not exceed 1.02 pounds per bale, corrected to 500-pound cotton bales. [District Rule 2201]
9. When firing on natural gas, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.0003 lb-SOx/MMBtu or 0.006 lb-VOC/MMBtu. [District Rule 2201]
10. When firing on Propane, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.008 lb-SOx/MMBtu or 0.005 lb-VOC/MMBtu. [District Rule 2201]
11. The unloading system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
12. The #1 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
13. The #2 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
14. The #3 pre-cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
15. The #1 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The #2 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
17. The #3 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
18. The battery condenser shall be controlled by three 52" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
19. The gin stand feeder trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
20. The mote system shall be controlled by one 72" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
21. The mote condenser pull shall be controlled by one 68" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
22. The mote transfer system shall be controlled by one 28" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
23. The motes cleaner trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
24. The motes condenser robber system shall be controlled by one 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
25. The overflow system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
26. The trash loading area shall be enclosed with four sides that are higher than the trash auger. Two sides shall be solid. The remaining sides shall have a combination of flexible wind barriers that extend below the top of the trash trailer sides and solid doors that remain shut while trash trailers are being loaded, except as necessary to accommodate trailer movement. [District Rule 4204]
27. Permittee shall conduct daily visual inspections of the material handling systems for leaks, breaks, or other visible signs of equipment malfunctions. [District Rule 4204]
28. Permittee shall maintain a record of the daily inspections of the material handling systems, including any equipment malfunctions discovered and corrective action taken to repair the malfunction, and any source test results. [District Rule 4204]
29. Permittee shall record daily processing rate and operating schedule. [District Rule 1070]
30. All records shall be retained on site for at least five years and made available to the District upon request. [District Rules 1070 and 4204]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-259-2-6 **EXPIRATION DATE:** 10/31/2018

EQUIPMENT DESCRIPTION:
COTTON GIN (#2 WEST SIDE) WITH 3 CONTINENTAL SAW GIN STANDS, 6 LINT CLEANERS AND CONDENSERS, 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 1 MMBTU/HR LINT CLEANER DRYER #3, FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -1), BATTERY CONDENSER, TRASH SYSTEM AND MODULE FEEDER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201]
3. Daily ginning rate shall not exceed 180 tons of baled cotton per day (720 bales per day, corrected to 500-pound bales). [District Rule 2201]
4. Annual ginning rate shall not exceed 15,962.5 tons of baled cotton per year (63,850 bales/year, corrected to 500-pound bales). [District Rule 2201]
5. PM10 emissions shall not exceed 0.92 pounds per bale, corrected to 500-pound cotton bales. [District Rule 2201]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
9. When firing on natural gas, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.0003 lb-SOx/MMBtu or 0.006 lb-VOC/MMBtu. [District Rule 2201]
10. When firing on Propane, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.008 lb-SOx/MMBtu or 0.005 lb-VOC/MMBtu. [District Rule 2201]
11. The unloading system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
12. The #1 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
13. The #2 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
14. The #3 pre-cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
15. The #1 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The #2 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
17. The #3 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
18. The battery condenser shall be controlled by three 52" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
19. The gin stand and feeder trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
20. The motes system shall be controlled by one 72" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
21. The motes transfer shall be controlled by one 28" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
22. The overflow system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
23. The trash loading area shall be enclosed with four sides that are higher than the trash auger. Two sides shall be solid. The remaining sides shall have a combination of flexible wind barriers that extend below the top of the trash trailer sides and solid doors that remain shut while trash trailers are being loaded, except as necessary to accommodate trailer movement. [District Rule 4204]
24. Permittee shall conduct daily visual inspections of the material handling systems for leaks, breaks, or other visible signs of equipment malfunctions. [District Rule 4204]
25. Permittee shall maintain a record of the daily inspections of the material handling systems, including any equipment malfunctions discovered and corrective action taken to repair the malfunction, and any source test results. [District Rule 4204]
26. Permittee shall record daily processing rate and operating schedule. [District Rule 1070]
27. All records shall be retained on site for at least five years and made available to the District upon request. [District Rules 1070 and 4204]

Attachment B

ERC Application

Received
DEC 11 2017
SJVAPCD

San Joaquin Valley Air Pollution Control District

Application for

☒ EMISSION REDUCTION CREDIT (ERC) ☐ CONSOLIDATION OF ERC CERTIFICATES

1. ERC TO BE ISSUED TO: Central Valley Cooperative Inc. Facility ID: C - 259 (if known)

2. MAILING ADDRESS: Street/P.O. Box: 9845 Hanford-Armona Rd.
City: Hanford State: CA Zip Code: 93230

RECEIVED
DEC 11 2017
Permits Services
SJVAPCD

3. LOCATION OF REDUCTION:
Street: 9845 Hanford-Armona Rd.
City: Hanford, CA
____/4 SECTION ____ TOWNSHIP ____ RANGE ____

4. DATE OF REDUCTION: 08/18/2016

5. PERMIT NO(S): C-259-1-5, C-259-2-4 EXISTING ERC NO(S):

6. METHOD RESULTING IN EMISSION REDUCTION:

☒ SHUTDOWN ☐ RETROFIT ☐ PROCESS CHANGE ☐ OTHER

DESCRIPTION: Shutdown of existing cotton gin.

(Use additional sheets if necessary)

7. REQUESTED ERCs (In Pounds Per Calendar Quarter):

	VOC	NOx	CO	PM10	SOx	OTHER
1ST QUARTER						
2ND QUARTER						
3RD QUARTER						
4TH QUARTER	29.16	486	97.2	12,054.13	14.58	567.65

8. SIGNATURE OF APPLICANT: Louis Giacommazi

TYPE OR PRINT TITLE OF APPLICANT: Manager

9. TYPE OR PRINT NAME OF APPLICANT: Louis Giacommazi

DATE: 12-11-2017

TELEPHONE NO: 559-816-1364

FOR APCD USE ONLY:

DATE RECEIVED: DEC 11 2017
FINANCE
SJVUAPCD

FILING FEE RECEIVED: $ 832.00 / # 1074
DATE PAID: 12-11-17
PROJECT NO.: C1173456 FACILITY ID.: C259

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
SUPPLEMENTAL APPLICATION FORM

COTTON GINS
Emission Reduction Credit (ERC)

(This form must be accompanied by a completed Application for Emission Reduction Credit form.)

Certificate to be Issued to:	**Central Valley Cooperative Gin**
Gin Location:	**9845 Hanford-Armona Road, Hanford, CA**

1. Are the emission reductions due to the installation of control equipment at an existing cotton gin? **n/a**

   If "yes", please list the Authority (-ies) to Construct authorizing the installation: **n/a**

2. Are the emission reductions due to the shut-down of a cotton gin? **Yes**

   If "yes", please list the applicable Permit to Operate number(s): **C-259-1-6 / C-259-2-4**

3. What date did the emission reductions occur? (if #1 above applies, when was the gin first operated after control equipment was installed? If #2 applies, when was the gin last operated, or when was the Permit to Operate surrendered?)

   MM/DD/YY: **08/22/2016**

4. Submit operational data for the five consecutive seasons prior to the reduction (if the emission reductions are result of the installation of control equipment, submit for the five years prior to the issuance of the applicable ATC):

Season	2011	2012	2013	2014	2015
Start MM/DD/YY	**10/18/11**	**10/18/12**	**10/01/13**	**10/14/14**	**10/12/15**
End MM/DD/YY	**12/17/11**	**12/17/12**	**11/16/13**	**12/09/14**	**12/01/15**
No. of Bales*	**17,847**	**17,293**	**10,941**	**8,095**	**4,997**

*Number of bales after correcting to 500 pounds per bale.

(Please continue on other side)

5. Provide emission factors (EF) in pounds of PM_{10} emissions per 500 pound bale:

System	Pre-mod or Pre-shutdown EF	References
Totals	**1.02 (C-259-1-6)**	Permit/ Source Test
Totals	**0.92 (C-259-2-4)**	Permit/ Source Test

Attachment C

Cotton Ginning Throughput and Natural Gas Usage Records

Outlook Mail

Search Mail and People

New | Reply | Delete Archive Junk | Sweep Move to Categories ...

Folders

Inbox

Junk Email 1

Drafts 16

Sent Items

Deleted Items 7

Archive

Important

Central Valley Cooperative - 10 year volume

Townsend, Greg - AMS <Greg.Townsend@ams.usda.gov>
Today, 8:00 AM
You

Good Morning Louis,

See below for total bales classed in each year, going back to 2005:

2015	4997
2014	8095
2013	10941
2012	17293
2011	17847
2010	15536
2009	11629
2008	10509
2007	16172
2006	25766
2005	36048

Let me know if I can help you with anything else,
Greg

Greg Townsend
Area Director
USDA, AMS, Cotton Program
Visalia Cotton Classing Office
7100 W. Sunnyview Ave.
Visalia, CA 93291
559-651-3015
559-651-0752 fax

Upgrade to Premium

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Nov 3, 2015
_ Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

SoCalGas
Sempra Energy utility

Account Summary

Amount of Last Bill	$118.89
Payment Received	-.00
Current Charges	+914.93
Total Amount Due	**$796.04**

7% Late Payment Charge Due If Paid After NOV 30, 2015

DATE DUE Nov 24, 2015

AMOUNT DUE $796.04

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575938 (*Next scheduled read date Dec 3 2015*) Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/15 - 10/30/15	28	082765	081595	1170	0.000	1.035	1211

GAS CHARGES		Amount($)
Customer Charge	28 Days x $.49315	13.81
Gas Transportation (*Details below*)	1,211 Therms	

	Tier 1	Tier 2		
Therms used	250	961		
Rate/Therm	$.54727	$.29141		
Charge	$136.82	+ $280.05	=	416.87
Gas Commodity		1,211 Therms x $.32136		389.17
			Total Gas Charges	**$819.85**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	1,211 Therms x $.00068	.82
Public Purpose Surcharge	1,211 Therms x $.07784	94.26
	Total Taxes and Fees on Gas Charges	$95.08
	Total Current Charges	**$914.93**

Gas Usage History (*Total Therms used*)

	Nov 14	Oct 15	Nov 15
Total Therms used	4	0	1,211
Daily average Therms	1	0	43.3
Days in billing cycle	28	30	28

SoCalGas performs periodic safety inspections of its gas meters and piping around the meter. To complete these inspections, safe access to the gas meter is needed and the area around the gas meter must be clear of shrubs, trees, fences and other structures.

The Gas Company's gas commodity cost per therm for your billing period:
Nov. . . . . $.27684 Oct. . . . . $.32136

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

SoCalGas

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9.
SERVICE FOR:
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Jan 7, 2016

Your Service
1-800-427-2000 *English*
1-800-427-6029 *Español*

www.socalgas.com

Did you overlook paying your last bill? Please pay the total amount due to avoid collection notices. Disregard this message if payment was already made. Thank you.

Account Summary

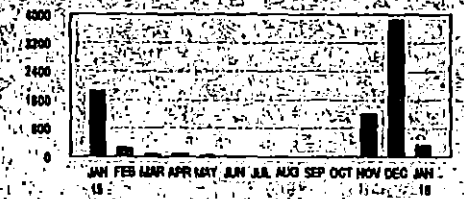
Amount of Last Bill		$3,385.38
Payment Received	12/10/15 THANK YOU	- 796.04
Current Charges		+ 314.18
Total Amount Due		**$2,903.52**

7% Late Payment Charge Due If Paid After FEB 01, 2016

This bill reflects modified gas charges due to a rate change.

	Due By	Amount
Past Due	Now	$2,589.34
Current Charges	1/28/16	$314.18
Total Amount Due		$2,903.52

Gas Usage History *(Total Therms used)*



	Jan 15	Dec 15	Jan 16
Total Therms used	1,049	3,838	337
Daily average Therms	56.0	112.9	10.2
Days in billing cycle	33	34	33

Take advantage of our helpful conservation tips. Save energy and money this winter and all year round. Visit socalgas.com (search "WINTER").

Current Charges

Rate: GN-10 - Non-Residential
Meter Number: 10575936 *(Next scheduled read date Feb 4 2016)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/15 - 01/05/16	33	086734	086410	324	0.000	1.040	337

GAS CHARGES		Amount($)
Customer Charge	33 Days x $.49315	16.27
Gas Transportation *(Details below)*	337 Therms	

	Tier 1	Tier 2	
Therms used	250	87	
Rate/Therm	$.55662	$.30258	
Charge	$139.16	+ $26.32	= 165.48

Gas Commodity	337 Therms x $.31545	106.30
	Total Gas Charges	**$288.05**

(Continued on next page)

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.27193 Dec. . . . . $.32322

SoCalGas
Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Jan 6, 2015
1 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

Account Summary

Amount of Last Bill		$1,372.08
Payment Received	12/11/14 THANK YOU	- 1,372.08
Current Charges		+ 1,528.02
Total Amount Due		**$1,528.02**

7% Late Payment Charge Due If Paid After JAN 29, 2015

This bill reflects modified gas charges due to a rate change.

DATE DUE Jan 27, 2015

AMOUNT DUE $1,528.02

Current Charges

Rate: GN-10 - Non-Residential
Meter Number: 10575936 *(Next scheduled read date Feb 4 2015)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/14 - 01/05/15	33	081140	079374	1766	0.000	1.047	1849

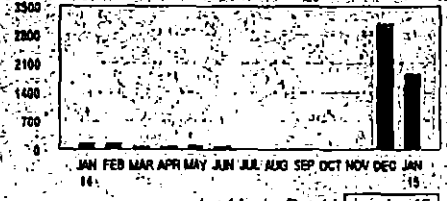
GAS CHARGES		Amount($)
Customer Charge	33 Days x $.49315	16.27
Gas Transportation *(Details below)*	1,849 Therms	

	Tier 1	Tier 2		
Therms used	250	1,599		
Rate/Therm	$.50554	$.26057		
Charge	$126.39	+ $416.65	=	543.04

Gas Commodity	1,849 Therms x $.46471	859.25
	Total Gas Charges	**$1,418.56**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	1,849 Therms x $.00068	1.26
Public Purpose Surcharge	1,849 Therms x $.05852	108.20
	Total Taxes and Fees on Gas Charges	**$109.46**
	Total Current Charges	**$1,528.02**

Gas Usage History *(Total Therms used)*



	Jan 14	Dec 14	Jan 15
Total Therms used	162	3,085	1,849
Daily average Therms	4.9	90.7	56.0
Days in billing cycle	31	34	33

Our logo has changed, but that's all. SoCalGas® is the same company you've trusted to provide safe and reliable natural gas service for over 140 years.

CARE ***Special Discount*** You may be eligible for the California Alternate Rates for Energy (CARE) program. For more information or to apply online, go to socalgas.com (search "CARE"). Or call 1-800-427-2200 to request an application.

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.34124 Dec. . . . . $.48676

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

The Gas Company

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9

SERVICE FOR

CENTRAL VALLEY COOP

9845 HANFORD ARMONA RD

HANFORD CA 93230-6232

DATE MAILED Dec 5, 2014

24 Hour Service

1-800-427-2000 *English*

1-800-427-6029 *Español*

www.socalgas.com

Account Summary

Amount of Last Bill	$978.30
Payment Received	-.00
Current Charges	+ 2,350.38
Total Amount Due	**$1,372.08**

7% Late Payment Charge Due if Paid After DEC 31, 2014

DATE DUE Dec 29, 2014

AMOUNT DUE $1,372.08

Current Charges

Rate: GN-10 Non-Residential

Meter Number: 10575936 *(Next scheduled read date Jan 5 2015)* Cycle: 2

Billing Period		Days	Current Reading		Previous Reading	=	Difference	x	Pressure Factor	x	BTU Factor	=	Total Therms
10/30/14	- 12/03/14	34	079374	-	076430		2944	x	0.000	x	1.048	=	3085

GAS CHARGES			Amount($)
Customer Charge	34 Days x $.49315	=	16.77
Gas Transportation *(Details below)*	3,085 Therms		
	Tier 1	Tier 2	
Therms used	250	2,835	
Rate/Therm	$.49828	$.25524	
Charge	$124.57	+ $723.61 =	848.18
Gas Commodity	3,085 Therms x $.42574	=	1,313.41
	Total Gas Charges		**$2,178.36**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	3,085 Therms x $.00068 =	2.10
Public Purpose Surcharge	3,085 Therms x $.05508 =	169.92
	Total Taxes and Fees on Gas Charges	**$172.02**
	Total Current Charges	**$2,350.38**

Gas Usage History *(Total Therms used)*

	Dec 13	Nov 14	Dec 14
Total Therms used	2,604	4	3,085
Daily average Therms	78.8	1	90.7
Days in billing cycle	34	28	34

SoCalGas® is bringing in the New Year with a modern look. Watch for our new logo in January.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com.

The Gas Company's gas commodity cost per therm for your billing period:

Dec. . . . . $.48676 Nov. . . . . $.41899

Oct. . . . . $.44500

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

ACCOUNT NUMBER 024 917 5313 9
SERVICE
CENTR[illegible] VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Jan 27, 2014 Page 1 of 2

2[illegible]ur Service
1[illegible]-427-2000 *English*
1-800-427-6029 *Español*

www.socalgas.com

[illegible]empra Energy utility

H H

Account Summary

Amount of Last Bill		$1,982.94
Payment Received	12/19/13 THANK YOU	-1,982.94
Current Charges		+1,782.42
Total Amount Due		**$1,782.42**

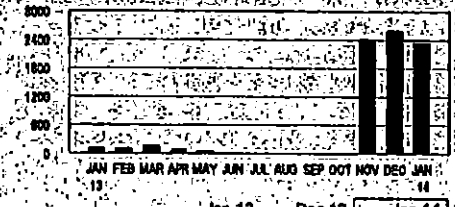
Estimated Bill - We were unable to obtain an accurate meter reading during this billing period, therefore your gas usage has been estimated. Future bills may be adjusted upward or downward based on an actual read.

7% Late Payment Charge Due If Paid After FEB 19, 2014

DATE DUE Feb 14, 2014

AMOUNT DUE $1,782.42

Gas Usage History *(Total Therms used)*



	Jan 13	Dec 13	Jan 14
Total Therms used	118	2,604	2,338
Daily average Therms	3.8	76.6	75.4
Days in billing cycle	31	34	31

CARE ***Special Discount*** You may be eligible for the California Alternate Rates for Energy (CARE) program. For more information or to apply online, go to socalgas.com (search "CARE"). Or call 1-800-427-2200 to request an application.

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 *(Next scheduled read date Feb 4 2014)* Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
12/03/13 - 01/03/14	31	078136	075853	2283	0.000	1.024	2338

GAS CHARGES		Amount($)
Customer Charge	31 Days x $.49315	15.29
Gas Transportation *(Details below)*	2,338 Therms	

	Tier 1	Tier 2	
Therms used	250	2,088	
Rate/Therm	$.51802	$.25929	
Charge	$129.51	+ $541.40	= 670.91

Gas Commodity	2,338 Therms x $.41503	970.34
	Total Gas Charges	**$1,656.54**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	2,338 Therms x $.00068	1.59
Public Purpose Surcharge	2,338 Therms x $.05316	124.29
	Total Taxes and Fees on Gas Charges	**$125.88**

(Continued on next page)

The Gas Company's gas commodity cost per therm for your billing period:
Jan. . . . . $.47715 Dec. . . . . $.40837

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR:
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Dec 5, 2013

Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*

www.socalgas.com

H H

sempra Energy utility

Account Summary

Amount of Last Bill			$1,727.24
Payment Received	11/21/13	THANK YOU	-1,727.24
Current Charges			+ 1,962.94
Total Amount Due			**$1,962.94**

7% Late Payment Charge Due If Paid After DEC 31 2013

DATE DUE Dec 27, 2013

AMOUNT DUE $1,962.94

Current Charges

Rate: GN-10 - Non-Residential

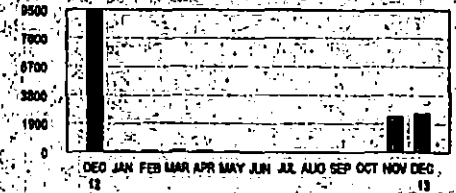
Meter Number: 10575938 (*Next scheduled read date Jan 3 2014*) Cycle: 2

Billing Period	Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/30/13 - 12/03/13	34	075853	073349	2504	0.000	1.040	2604

GAS CHARGES			Amount($)
Customer Charge	34 Days x $.49315		16.77
Gas Transportation *(Details below)*	2,604 Therms		
	Tier 1	Tier 2	
Therms used	250	2,354	
Rate/Therm	$.51689	$.25785	
Charge	$129.22	+ $606.98	= 736.20
Gas Commodity	2,604 Therms x $.41103		1,070.32
		Total Gas Charges	**$1,823.29**

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	2,604 Therms x $.00068	1.77
Public Purpose Surcharge	2,604 Therms x $.05295	137.88
	Total Taxes and Fees on Gas Charges	**$139.65**
	Total Current Charges	**$1,962.94**

Gas Usage History *(Total Therms used)*



	Dec 12	Nov 13	Dec 13
Total Therms used	9,351	2,406	2,604
Daily average Therms	276.0	85.9	76.6
Days in billing cycle	34	28	34

Postage costs keep going up. Save money on stamps and start paying your bill online. Sign up through "My Account" at socalgas.com today.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com.

The Gas Company's gas commodity cost per therm for your billing period:
Dec. . . . . $.40837 Nov. . . . . $.41255
Oct. . . . . $.37375

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

ACCOUNT NUMBER 024 917 5313 9
SERVICE FOR
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

Sempra Energy utility

DATE MAILED Nov 1, 2013 Page 1 of 2

24 Hour Service
1-800-427-2000 *English*
1-800-427-6029 *Español*

www.socalgas.com

H H

Account Summary

Amount of Last Bill			$3.32
Payment Received	10/17/13	THANK YOU	- 3.32
Current Charges			+ 1,727.24
Total Amount Due			**$1,727.24**

7% Late Payment Charge Due If Paid After NOV 26, 2013

DATE DUE Nov 22, 2013

AMOUNT DUE $1,727.24

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575936 (*Next scheduled read date Dec 3 2013*) Cycle: 2

Billing Period		Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/13	10/30/13	28	073349	071022	2327	0.000	1.034	2408

GAS CHARGES			Amount($)
Customer Charge	28 Days x $.49315		13.81
Gas Transportation *(Details below)*	2,406 Therms		
	Tier 1	Tier 2	
Therms used	250	2,156	
Rate/Therm	$.51689	$.25785	
Charge	$129.22	+ $555.92	= 685.14
Gas Commodity	2,406 Therms x $.37375		899.25
		Total Gas Charges	$1,598.20

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	2,406 Therms x $.00068	1.64
Public Purpose Surcharge	2,406 Therms x $.05295	127.40
	Total Taxes and Fees on Gas Charges	$129.04

Total Current Charges $1,727.24

Gas Usage History *(Total Therms used)*

	Nov 12	Oct 13	Nov 13
Total Therms used	4,389	4	2,406
Daily average Therms	156.8	1	85.9
Days in billing cycle	28	29	28

Postage costs keep going up. Save money on stamps and start paying your bill online. Sign up through "My Account" at socalgas.com today.

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on Thanksgiving Day, November 28 and Friday, November 29, 2013. Call us early to schedule service.

The Gas Company's gas commodity cost per therm for your billing period:
Nov. . . . . $.41255 Oct. . . . . $.37375

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

The Gas Company

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9

SERVICE FOR

CENTRAL VALLEY COOP

9845 HANFORD ARMONA RD

HANFORD CA 93230-6232

DATE MAILED Dec 5 2012 Page 1 of 4

24 Hour Service

1-800-427-2000 *English*

1-800-427-6029 *Español*

www.socalgas.com H H

Account Summary

Amount of Last Bill			$2,755.20
Payment Received	11/16/12	THANK YOU	- 2,755.20
Current Charges			+ 5,589.57
Total Amount Due			**$5,589.57**

7% Late Payment Charge Due If Paid After DEC 31, 2012

DATE DUE Dec 27 2012

AMOUNT DUE $5,589.57

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575938 *(Next scheduled read date Jan 3 2013)* Cycle: 2

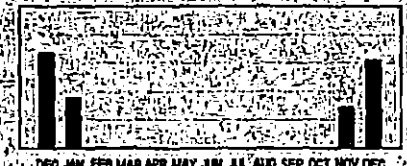
Billing Period		Days	Current Reading		Previous Reading		Difference	x	Pressure Factor	x	BTU Factor	=	Total Therms
10/30/12	12/03/12	34	070488	-	061512	=	6974	x	0.000	x	1.042	=	9351

GAS CHARGES			Amount($)
Customer Charge	34 Days x $.49315	=	16.77
Gas Transportation *(Details below)*	9,351 Therms		

	Tier 1		Tier 2		Tier 3		
Therms used	250		3,917		5,184		
Rate/Therm	$.49382		$.24889		$.08467		
Charge	$123.46	+	$974.90	+	$438.93	=	1,537.29
Gas Commodity	9,351 Therms x $.36105					=	3,376.17
					Total Gas Charges		$4,930.23

TAXES & FEES ON GAS CHARGES		Amount($)
State Regulatory Fee	9,351 Therms x $.00068	6.36
Public Purpose Surcharge	9,351 Therms x $.06983	652.98
	Total Taxes and Fees on Gas Charges	$659.34
	Total Current Charges	**$5,589.57**

Gas Usage History *(Total Therms used)*



	Dec 11	Nov 12	Dec 12
Total Therms used	10,197	4,389	9,351
Daily average Therms	291.3	156.8	275.0
Days in billing cycle	35	28	34

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

"***Avoid holiday delays*** Our offices will be closed on December 24 and 25. Go online to schedule service at socalgas.com."

The Gas Company's gas commodity cost per therm for your billing period:

Dec. . . . . $.40358 Nov. . . . . $.35831

Oct. . . . . $.31542

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

The Gas Company

A Sempra Energy utility

ACCOUNT NUMBER 024 917 5313 9
SERVICE
CENTRAL VALLEY COOP
9845 HANFORD ARMONA RD
HANFORD CA 93230-6232

DATE MAILED Nov 1, 2012

Your Service
1-800-427-2000 *English*
1-800-427-6029 *Español*
www.socalgas.com

H H

Account Summary

Amount of Last Bill	$69.61
Payment Received	-00
Current Charges	+2,824.81
Total Amount Due	**$2,755.20**

7% Late Payment Charge Due If Paid After NOV 28, 2012

DATE DUE Nov 26, 2012

AMOUNT DUE $2,755.20

Current Charges

Rate: GN-10 - Non-Residential

Meter Number: 10575938 *(Next scheduled read date Dec 3 2012)* Cycle: 2

Billing Period		Days	Current Reading	Previous Reading	= Difference	x Pressure Factor	x BTU Factor	= Total Therms
10/02/12	10/30/12	28	061512	057247	4265	0.000	1.029	4389

GAS CHARGES Amount($)

Customer Charge	28 Days x $.49315	13.81
Gas Transportation *(Details below)*	4,389 Therms	

	Tier 1	Tier 2	Tier 3	
Therms used	250	3,917	222	
Rate/Therm	$.49382	$.24889	$.08467	
Charge	$123.46	+ $974.90	+ $18.80	= 1,117.16

Gas Commodity	4,389 Therms x $.31542	1,384.38
	Total Gas Charges	**$2,515.35**

TAXES & FEES ON GAS CHARGES Amount($)

State Regulatory Fee	4,389 Therms x $.00068	2.98
Public Purpose Surcharge	4,389 Therms x $.06983	306.48
	Total Taxes and Fees on Gas Charges	**$309.46**
	Total Current Charges	**$2,824.81**

Gas Usage History *(Total Therms used)*

	Nov 11	Oct 12	Nov 12
Total Therms used	2,080	0	4,389
Daily average Therms	74.3	.0	156.8
Days in billing cycle	28	32	28

Make payments, schedule service appointments, view account history, go paperless. Register for My Account at socalgas.com today!

Avoid holiday delays Our offices will be closed on Thanksgiving Day, November 22 and Friday, November 23, 2012. Call us early to schedule service.

The Gas Company's gas commodity cost per therm for your billing period:
Nov. . . . . $.35831 Oct. . . . . $.31542

PLEASE KEEP THIS PORTION FOR YOUR RECORDS. (FAVOR DE GUARDAR ESTA PARTE PARA SUS REGISTROS.)

Attachment D

GHG Emission Factors (EFs) and Global Warming Potentials (GWP)

40 CFR Appendix Table C-1 to Subpart C of Part 98, Default CO2 Emission Factors and High Heat Values for Various Types of Fuel

Table C-1 to Subpart C of Part 98 - Default CO^2 Emission Factors and High Heat Values for Various Types of Fuel

Link to an amendment published at 81 FR 89252, Dec. 9, 2016.

DEFAULT CO^2 EMISSION FACTORS AND HIGH HEAT VALUES FOR VARIOUS TYPES OF FUEL

Fuel type	Default high heat value	Default CO^2 emission factor
Coal and coke	mmBtu/short ton	kg CO^2/mmBtu
Anthracite	25.09	103.69
Bituminous	24.93	93.28
Subbituminous	17.25	97.17
Lignite	14.21	97.72
Coal Coke	24.80	113.67
Mixed (Commercial sector)	21.39	94.27
Mixed (Industrial coking)	26.28	93.90
Mixed (Industrial sector)	22.35	94.67
Mixed (Electric Power sector)	19.73	95.52
Natural gas	mmBtu/scf	kg CO^2/mmBtu
(Weighted U.S. Average)	1.026×10^{-3}	53.06
Petroleum products	mmBtu/gallon	kg CO^2/mmBtu
Distillate Fuel Oil No. 1	0.139	73.25
Distillate Fuel Oil No. 2	0.138	73.96
Distillate Fuel Oil No. 4	0.146	75.04

Residual Fuel Oil No. 5	0.140	72.93
Residual Fuel Oil No. 6	0.150	75.10
Used Oil	0.138	74.00
Kerosene	0.135	75.20
Liquefied petroleum gases (LPG) [1]	0.092	61.71
Propane [1]	0.091	62.87
Propylene [2]	0.091	67.77
Ethane [1]	0.068	59.60
Ethanol	0.084	68.44
Ethylene [2]	0.058	65.96
Isobutane [1]	0.099	64.94
Isobutylene [1]	0.103	68.86
Butane [1]	0.103	64.77
Butylene [1]	0.105	68.72
Naphtha (<401 deg F)	0.125	68.02
Natural Gasoline	0.110	66.88
Other Oil (>401 deg F)	0.139	76.22
Pentanes Plus	0.110	70.02
Petrochemical Feedstocks	0.125	71.02
Petroleum Coke	0.143	102.41
Special Naphtha	0.125	72.34
Unfinished Oils	0.139	74.54
Heavy Gas Oils	0.148	74.92
Lubricants	0.144	74.27
Motor Gasoline	0.125	70.22
Aviation Gasoline	0.120	69.25
Kerosene-Type Jet Fuel	0.135	72.22
Asphalt and Road Oil	0.158	75.36

Crude Oil	0.138	74.54
Other fuels - solid	mmBtu/short ton	kg CO^2/mmBtu
Municipal Solid Waste	9.95 [3]	90.7
Tires	28.00	85.97
Plastics	38.00	75.00
Petroleum Coke	30.00	102.41
Other fuels - gaseous	mmBtu/scf	kg CO^2/mmBtu
Blast Furnace Gas	0.092×10^{-3}	274.32
Coke Oven Gas	0.599×10^{-3}	46.85
Propane Gas	2.516×10^{-3}	61.46
Fuel Gas [4]	1.388×10^{-3}	59.00
Biomass fuels - solid	mmBtu/short ton	kg CO^2/mmBtu
Wood and Wood Residuals (dry basis) [5]	17.48	93.80
Agricultural Byproducts	8.25	118.17
Peat	8.00	111.84
Solid Byproducts	10.39	105.51
Biomass fuels - gaseous	mmBtu/scf	kg CO^2/mmBtu
Landfill Gas	0.485×10^{-3}	52.07
Other Biomass Gases	0.655×10^{-3}	52.07
Biomass Fuels - Liquid	mmBtu/gallon	kg CO^2/mmBtu
Ethanol	0.084	68.44
Biodiesel (100%)	0.128	73.84
Rendered Animal Fat	0.125	71.06
Vegetable Oil	0.120	81.55

[1] The HHV for components of LPG determined at 60 °F and saturation pressure with the exception of ethylene.

[2] Ethylene HHV determined at 41 °F (5 °C) and saturation pressure.

[3] Use of this default HHV is allowed only for: (a) Units that combust MSW, do not generate steam, and are allowed to use Tier 1; (b) units that derive no more than 10 percent of their annual heat input from MSW and/or tires; and (c) small batch incinerators that combust no more than 1,000 tons of MSW per year.

[4] Reporters subject to subpart X of this part that are complying with § 98.243(d) or subpart Y of this part may only use the default HHV and the default CO^2 emission factor for fuel gas combustion under the conditions prescribed in § 98.243(d)(2)(i) and (d)(2)(ii) and § 98.252(a)(1) and (a)(2), respectively. Otherwise, reporters subject to subpart X or subpart Y shall use either Tier 3 (Equation C-5) or Tier 4.

[5] Use the following formula to calculate a wet basis HHV for use in Equation C-1: $HHV^w = ((100 - M)/100)*HHV^d$ where HHV^w = wet basis HHV, M = moisture content (percent) and HHV^d = dry basis HHV from Table C-1.

[78 FR 71950, Nov. 29, 2013]

40 CFR Appendix Table C-2 to Subpart C of Part 98, Default CH4 and N2O Emission Factors for Various Types of Fuel

Table C-2 to Subpart C of Part 98 - Default CH^4 and N^2O Emission Factors for Various Types of Fuel

Link to an amendment published at 81 FR 89252, Dec. 9, 2016.

Fuel type	Default CH^4 emission factor (kg CH^4/mmBtu)	Default N^2O emission factor (kg N^2O/mmBtu)
Coal and Coke (All fuel types in Table C-1)	1.1×10^{-02}	1.6×10^{-03}
Natural Gas	1.0×10^{-03}	1.0×10^{-04}
Petroleum (All fuel types in Table C-1)	3.0×10^{-03}	6.0×10^{-04}
Fuel Gas	3.0×10^{-03}	6.0×10^{-04}
Municipal Solid Waste	3.2×10^{-02}	4.2×10^{-03}
Tires	3.2×10^{-02}	4.2×10^{-03}
Blast Furnace Gas	2.2×10^{-05}	1.0×10^{-04}
Coke Oven Gas	4.8×10^{-04}	1.0×10^{-04}
Biomass Fuels - Solid (All fuel types in Table C-1, except wood and wood residuals)	3.2×10^{-02}	4.2×10^{-03}
Wood and wood residuals	7.2×10^{-03}	3.6×10^{-03}
Biomass Fuels - Gaseous (All fuel types in Table C-1)	3.2×10^{-03}	6.3×10^{-04}
Biomass Fuels - Liquid (All fuel types in Table C-1)	1.1×10^{-03}	1.1×10^{-04}

Note: Those employing this table are assumed to fall under the IPCC definitions of the "Energy Industry" or "Manufacturing Industries and Construction". In all fuels except for coal the values for these two categories are identical. For coal combustion, those who fall within the IPCC "Energy Industry" category may employ a value of 1g of CH^4/mmBtu.

[78 FR 71952, Nov. 29, 2013]

40 CFR Appendix Table A-1 to Subpart A of Part 98, Global Warming Potentials

Table A-1 to Subpart A of Part 98 - Global Warming Potentials

[100-YEAR TIME HORIZON]

Name	CAS No.	Chemical formula	Global warming potential (100 yr.)
Chemical-Specific GWPs			
Carbon dioxide	124-38-9	CO^2	1
Methane	74-82-8	CH^4	[a] 25
Nitrous oxide	10024-97-2	N^2O	[a] 298
Fully Fluorinated GHGs			
Sulfur hexafluoride	2551-62-4	SF^6	[a] 22,800
Trifluoromethyl sulphur pentafluoride	373-80-8	SF^5CF^3	17,700
Nitrogen trifluoride	7783-54-2	NF^3	17,200
PFC-14 (Perfluoromethane)	75-73-0	CF^4	[a] 7,390
PFC-116 (Perfluoroethane)	76-16-4	C^2F^6	[a] 12,200
PFC-218 (Perfluoropropane)	76-19-7	C^3F^8	[a] 8,830
Perfluorocyclopropane	931-91-9	$C\text{-}C^3F^6$	17,340
PFC-3-1-10 (Perfluorobutane)	355-25-9	C^4F^{10}	[a] 8,860
PFC-318 (Perfluorocyclobutane)	115-25-3	$C\text{-}C^4F^8$	[a] 10,300
PFC-4-1-12 (Perfluoropentane)	678-26-2	C^5F^{12}	[a] 9,160
PFC-5-1-14 (Perfluorohexane, FC-72)	355-42-0	C^6F^{14}	[a] 9,300

PFC-6-1-12	335-57-9	C^7F^{16}; $CF^3(CF^2)^5CF^3$	[b] 7,820
PFC-7-1-18	307-34-6	C^8F^{18}; $CF^3(CF^2)^6CF^3$	[b] 7,620
PFC-9-1-18	306-94-5	$C^{10}F^{18}$	7,500
PFPMIE (HT-70)	NA	$CF^3OCF(CF^3)CF^2OCF^2OCF^3$	10,300
Perfluorodecalin (cis)	60433-11-6	Z-$C^{10}F^{18}$	[b] 7,236
Perfluorodecalin (trans)	60433-12-7	E-$C^{10}F^{18}$	[b] 6,288
Saturated Hydrofluorocarbons (HFCs) With Two or Fewer Carbon-Hydrogen Bonds			
HFC-23	75-46-7	CHF^3	[a] 14,800
HFC-32	75-10-5	CH^2F^2	[a] 675
HFC-125	354-33-6	C^2HF^5	[a] 3,500
HFC-134	359-35-3	$C^2H^2F^4$	[a] 1,100
HFC-134a	811-97-2	CH^2FCF^3	[a] 1,430
HFC-227ca	2252-84-8	$CF^3CF^2CHF^2$	[b] 2640
HFC-227ea	431-89-0	C^3HF^7	[a] 3,220
HFC-236cb	677-56-5	$CH^2FCF^2CF^3$	1,340
HFC-236ea	431-63-0	CHF^2CHFCF^3	1,370
HFC-236fa	690-39-1	$C^3H^2F^6$	[a] 9,810
HFC-329p	375-17-7	$CHF^2CF^2CF^2CF^3$	[b] 2360
HFC-43-10mee	138495-42-8	$CF^3CFHCFHCF^2CF^3$	[a] 1,640
Saturated Hydrofluorocarbons (HFCs) With Three or More Carbon-Hydrogen Bonds			
HFC-41	593-53-3	CH^3F	[a] 92
HFC-143	430-66-0	$C^2H^3F^3$	[a] 353
HFC-143a	420-46-2	$C^2H^3F^3$	[a] 4,470
HFC-152	624-72-6	CH^2FCH^2F	53
HFC-152a	75-37-6	CH^3CHF^2	[a] 124
HFC-161	353-36-6	CH^3CH^2F	12

HFC-245ca	679-86-7	$C^3H^3F^5$	[a] 693
HFC-245cb	1814-88-6	$CF^3CF^2CH^3$	[b] 4620
HFC-245ea	24270-66-4	$CHF^2CHFCHF^2$	[b] 235
HFC-245eb	431-31-2	$CH^2FCHFCF^3$	[b] 290
HFC-245fa	460-73-1	$CHF^2CH^2CF^3$	1,030
HFC-263fb	421-07-8	$CH^3CH^2CF^3$	[b] 76
HFC-272ca	420-45-1	$CH^3CF^2CH^3$	[b] 144
HFC-365mfc	406-58-6	$CH^3CF^2CH^2CF^3$	794
Saturated Hydrofluoroethers (HFEs) and Hydrochlorofluoroethers (HCFEs) With One Carbon-Hydrogen Bond			
HFE-125	3822-68-2	CHF^2OCF^3	14,900
HFE-227ea	2356-62-9	$CF^3CHFOCF^3$	1,540
HFE-329mcc2	134769-21-4	$CF^3CF^2OCF^2CHF^2$	919
HFE-329me3	428454-68-6	$CF^3CFHCF^2OCF^3$	[b] 4,550
1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)-propane	3330-15-2	$CF^3CF^2CF^2OCHFCF^3$	[b] 6,490
Saturated HFEs and HCFEs With Two Carbon-Hydrogen Bonds			
HFE-134 (HG-00)	1691-17-4	CHF^2OCHF^2	6,320
HFE-236ca	32778-11-3	$CHF^2OCF^2CHF^2$	[b] 4,240
HFE-236ca12 (HG-10)	78522-47-1	$CHF^2OCF^2OCHF^2$	2,800
HFE-236ea2 (Desflurane)	57041-67-5	$CHF^2OCHFCF^3$	989
HFE-236fa	20193-67-3	$CF^3CH^2OCF^3$	487
HFE-338mcf2	156053-88-2	$CF^3CF^2OCH^2CF^3$	552
HFE-338mmz1	26103-08-2	$CHF^2OCH(CF^3)^2$	380

HFE-338pcc13 (HG-01)	188690-78-0	$CHF^2OCF^2CF^2OCHF^2$	1,500
HFE-43-10pccc (H-Galden 1040x, HG-11)	E1730133	$CHF^2OCF^2OC^2F^4OCHF^2$	1,870
HCFE-235ca2 (Enflurane)	13838-16-9	CHF^2OCF^2CHFCl	[b] 583
HCFE-235da2 (Isoflurane)	26675-46-7	$CHF^2OCHClCF^3$	350
HG-02	205367-61-9	$HF^2C-(OCF^2CF^2)^2-OCF^2H$	[b] 3,825
HG-03	173350-37-3	$HF^2C-(OCF^2CF^2)^3-OCF^2H$	[b] 3,670
HG-20	249932-25-0	$HF^2C-(OCF^2)^2-OCF^2H$	[b] 5,300
HG-21	249932-26-1	$HF^2C-OCF^2CF^2OCF^2OCF^2O-CF^2H$	[b] 3,890
HG-30	188690-77-9	$HF^2C-(OCF^2)^3-OCF^2H$	[b] 7,330
1,1,3,3,4,4,6,6,7,7,9,9,10,10,12,12,13,13,15,15-eicosafluoro-2,5,8,11,14-Pentaoxapentadecane	173350-38-4	$HCF^2O(CF^2CF^2O)^4CF^2H$	[b] 3,630
1,1,2-Trifluoro-2-(trifluoromethoxy)-ethane	84011-06-3	$CHF^2CHFOCF^3$	[b] 1,240
Trifluoro(fluoromethoxy)methane	2261-01-0	CH^2FOCF^3	[b] 751
Saturated HFEs and HCFEs With Three or More Carbon-Hydrogen Bonds			
HFE-143a	421-14-7	CH^3OCF^3	756
HFE-245cb2	22410-44-2	$CH^3OCF^2CF^3$	708
HFE-245fa1	84011-15-4	$CHF^2CH^2OCF^3$	286
HFE-245fa2	1885-48-9	$CHF^2OCH^2CF^3$	659
HFE-254cb2	425-88-7	$CH^3OCF^2CHF^2$	359
HFE-263fb2	460-43-5	$CF^3CH^2OCH^3$	11
HFE-263m1; R-E-143a	690-22-2	$CF^3OCH^2CH^3$	[b] 29
HFE-347mcc3 (HFE-7000)	375-03-1	$CH^3OCF^2CF^2CF^3$	575

HFE-347mcf2	171182-95-9	$CF^3CF^2OCH^2CHF^2$	374
HFE-347mmy1	22052-84-2	$CH^3OCF(CF^3)^2$	343
HFE-347mmz1 (Sevoflurane)	28523-86-6	$(CF^3)^2CHOCH^2F$	[c] 216
HFE-347pcf2	406-78-0	$CHF^2CF^2OCH^2CF^3$	580
HFE-356mec3	382-34-3	$CH^3OCF^2CHFCF^3$	101
HFE-356mff2	333-36-8	$CF^3CH^2OCH^2CF^3$	[b] 17
HFE-356mmz1	13171-18-1	$(CF^3)^2CHOCH^3$	27
HFE-356pcc3	160620-20-2	$CH^3OCF^2CF^2CHF^2$	110
HFE-356pcf2	50807-77-7	$CHF^2CH^2OCF^2CHF^2$	265
HFE-356pcf3	35042-99-0	$CHF^2OCH^2CF^2CHF^2$	502
HFE-365mcf2	22052-81-9	$CF^3CF^2OCH^2CH^3$	[b] 58
HFE-365mcf3	378-16-5	$CF^3CF^2CH^2OCH^3$	11
HFE-374pc2	512-51-6	$CH^3CH^2OCF^2CHF^2$	557
HFE-449s1 (HFE-7100) Chemical blend	163702-07-6	$C^4F^9OCH^3$	297
	163702-08-7	$(CF^3)^2CFCF^2OCH^3$	
HFE-569sf2 (HFE-7200) Chemical blend	163702-05-4	$C^4F^9OC^2H^5$	59
	163702-06-5	$(CF^3)^2CFCF^2OC^2H^5$	
HG'-01	73287-23-7	$CH^3OCF^2CF^2OCH^3$	[b] 222
HG'-02	485399-46-0	$CH^3O(CF^2CF^2O)^2CH^3$	[b] 236

HG'-03	485399-48-2	$CH^3O(CF^2CF^2O)^3CH^3$	[b] 221
Difluoro(methoxy)methane	359-15-9	CH^3OCHF^2	[b] 144
2-Chloro-1,1,2-trifluoro-1-methoxyethane	425-87-6	CH^3OCF^2CHFCl	[b] 122
1-Ethoxy-1,1,2,2,3,3,3-heptafluoropropane	22052-86-4	$CF^3CF^2CF^2OCH^2CH^3$	[b] 61
2-Ethoxy-3,3,4,4,5-pentafluorotetrahydro-2,5-bis [1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-furan	920979-28-8	$C^{12}H^5F^{19}O^2$	[b] 56
1-Ethoxy-1,1,2,3,3,3-hexafluoropropane	380-34-7	$CF^3CHFCF^2OCH^2CH^3$	[b] 23
Fluoro(methoxy)methane	460-22-0	CH^3OCH^2F	[b] 13
1,1,2,2-Tetrafluoro-3-methoxy-propane; Methyl 2,2,3,3-tetrafluoropropyl ether	60598-17-6	$CHF^2CF^2CH^2OCH^3$	[b] 0.5
1,1,2,2-Tetrafluoro-1-(fluoromethoxy)ethane	37031-31-5	$CH^2FOCF^2CF^2H$	[b] 871
Difluoro(fluoromethoxy)methane	461-63-2	CH^2FOCHF^2	[b] 617
Fluoro(fluoromethoxy)methane	462-51-1	CH^2FOCH^2F	[b] 130
Fluorinated Formates			
Trifluoromethyl formate	85358-65-2	$HCOOCF^3$	[b] 588
Perfluoroethyl formate	313064-40-3	$HCOOCF^2CF^3$	[b] 580
1,2,2,2-Tetrafluoroethyl formate	481631-19-0	$HCOOCHFCF^3$	[b] 470
Perfluorobutyl formate	197218-56-7	$HCOOCF^2CF^2CF^2CF^3$	[b] 392
Perfluoropropyl formate	271257-42-2	$HCOOCF^2CF^2CF^3$	[b] 376
1,1,1,3,3,3-Hexafluoropropan-2-yl formate	856766-70-6	$HCOOCH(CF^3)^2$	[b] 333
2,2,2-Trifluoroethyl formate	32042-38-9	$HCOOCH^2CF^3$	[b] 33
3,3,3-Trifluoropropyl formate	1344118-09-7	$HCOOCH^2CH^2CF^3$	[b] 17

Fluorinated Acetates			
Methyl 2,2,2-trifluoroacetate	431-47-0	CF^3COOCH^3	[b] 52
1,1-Difluoroethyl 2,2,2-trifluoroacetate	1344118-13-3	$CF^3COOCF^2CH^3$	[b] 31
Difluoromethyl 2,2,2-trifluoroacetate	2024-86-4	$CF^3COOCHF^2$	[b] 27
2,2,2-Trifluoroethyl 2,2,2-trifluoroacetate	407-38-5	$CF^3COOCH^2CF^3$	[b] 7
Methyl 2,2-difluoroacetate	433-53-4	HCF^2COOCH^3	[b] 3
Perfluoroethyl acetate	343269-97-6	$CH^3COOCF^2CF^3$	[b] 2.1
Trifluoromethyl acetate	74123-20-9	CH^3COOCF^3	[b] 2.0
Perfluoropropyl acetate	1344118-10-0	$CH^3COOCF^2CF^2CF^3$	[b] 1.8
Perfluorobutyl acetate	209597-28-4	$CH^3COOCF^2CF^2CF^2CF^3$	[b] 1.6
Ethyl 2,2,2-trifluoroacetate	383-63-1	$CF^3COOCH^2CH^3$	[b] 1.3
Carbonofluoridates			
Methyl carbonofluoridate	1538-06-3	$FCOOCH^3$	[b] 95
1,1-Difluoroethyl carbonofluoridate	1344118-11-1	$FCOOCF^2CH^3$	[b] 27
Fluorinated Alcohols Other Than Fluorotelomer Alcohols			
Bis(trifluoromethyl)-methanol	920-66-1	$(CF^3)^2CHOH$	195
(Octafluorotetramethy-lene) hydroxymethyl group	NA	$X-(CF^2)^4CH(OH)-X$	73
2,2,3,3,3-Pentafluoropropanol	422-05-9	$CF^3CF^2CH^2OH$	42
2,2,3,3,4,4,4-Heptafluorobutan-1-ol	375-01-9	C^3F^7CH2OH	[b] 25
2,2,2-Trifluoroethanol	75-89-8	CF^3CH^2OH	[b] 20
2,2,3,4,4,4-Hexafluoro-1-butanol	382-31-0	$CF^3CHFCF^2CH^2OH$	[b] 17
2,2,3,3-Tetrafluoro-1-propanol	76-37-9	$CHF^2CF^2CH^2OH$	[b] 13
2,2-Difluoroethanol	359-13-7	CHF^2CH2OH	[b] 3
2-Fluoroethanol	371-62-0	CH^2FCH^2OH	[b] 1.1

4,4,4-Trifluorobutan-1-ol	461-18-7	$CF^3(CH^2)^2CH^2OH$	[b] 0.05
Unsaturated Perfluorocarbons (PFCs)			
PFC-1114; TFE	116-14-3	$CF^2 = CF^2$; C^2F^4	[b] 0.004
PFC-1216; Dyneon HFP	116-15-4	C^3F^6; $CF^3CF = CF^2$	[b] 0.05
PFC C-1418	559-40-0	c-C^5F^8	[b] 1.97
Perfluorobut-2-ene	360-89-4	$CF^3CF = CFCF^3$	[b] 1.82
Perfluorobut-1-ene	357-26-6	$CF^3CF^2CF = CF^2$	[b] 0.10
Perfluorobuta-1,3-diene	685-63-2	$CF^2 = CFCF = CF^2$	[b] 0.003
Unsaturated Hydrofluorocarbons (HFCs) and Hydrochlorofluorocarbons (HCFCs)			
HFC-1132a; VF2	75-38-7	$C^2H^2F^2$, $CF^2 = CH^2$	[b] 0.04
HFC-1141; VF	75-02-5	C^2H^3F, $CH^2 = CHF$	[b] 0.02
(E)-HFC-1225ye	5595-10-8	$CF^3CF = CHF$(E)	[b] 0.06
(Z)-HFC-1225ye	5528-43-8	$CF^3CF = CHF$(Z)	[b] 0.22
Solstice 1233zd(E)	102687-65-0	$C^3H^2ClF^3$; $CHCl = CHCF^3$	[b] 1.34
HFC-1234yf; HFO-1234yf	754-12-1	$C^3H^2F^4$; $CF^3CF = CH^2$	[b] 0.31
HFC-1234ze(E)	1645-83-6	$C^3H^2F^4$; trans-$CF^3CH = CHF$	[b] 0.97
HFC-1234ze(Z)	29118-25-0	$C^3H^2F^4$; cis-$CF^3CH = CHF$; $CF^3CH = CHF$	[b] 0.29
HFC-1243zf; TFP	677-21-4	$C^3H^3F^3$, $CF^3CH = CH^2$	[b] 0.12
(Z)-HFC-1336	692-49-9	$CF^3CH = CHCF^3$(Z)	[b] 1.58
HFC-1345zfc	374-27-6	$C^2F^5CH = CH^2$	[b] 0.09
Capstone 42-U	19430-93-4	$C^6H^3F^9$, $CF^3(CF^2)^3CH = CH^2$	[b] 0.16
Capstone 62-U	25291-17-2	$C^8H^3F^{13}$, $CF^3(CF^2)^5CH = CH^2$	[b] 0.11
Capstone 82-U	21652-58-4	$C^{10}H^3F^{17}$, $CF^3(CF^2)^7CH = CH^2$	[b] 0.09
Unsaturated Halogenated Ethers			
PMVE; HFE-216	1187-93-5	$CF^3OCF = CF^2$	[b] 0.17

Fluoroxene	406-90-6	$CF^3CH^2OCH = CH^2$	[b] 0.05
Fluorinated Aldehydes			
3,3,3-Trifluoro-propanal	460-40-2	CF^3CH^2CHO	[b] 0.01
Fluorinated Ketones			
Novec 1230 (perfluoro (2-methyl-3-pentanone))	756-13-8	$CF^3CF^2C(O)CF(CF3)^2$	[b] 0.1
Fluorotelomer Alcohols			
3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-1-ol	185689-57-0	$CF^3(CF^2)^4CH^2CH^2OH$	[b] 0.43
3,3,3-Trifluoropropan-1-ol	2240-88-2	$CF^3CH^2CH^2OH$	[b] 0.35
3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Pentadecafluorononan-1-ol	755-02-2	$CF^3(CF^2)^6CH^2CH^2OH$	[b] 0.33
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Nonadecafluoroundecan-1-ol	87017-97-8	$CF^3(CF^2)^8CH^2CH^2OH$	[b] 0.19
Fluorinated GHGs With Carbon-Iodine Bond(s)			
Trifluoroiodomethane	2314-97-8	CF^3I	[b] 0.4
Other Fluorinated Compounds			
Dibromodifluoromethane (Halon 1202)	75-61-6	CBR^2F^2	[b] 231
2-Bromo-2-chloro-1,1,1-trifluoroethane (Halon-2311/Halothane)	151-67-7	$CHBrClCF^3$	[b] 41

Fluorinated GHG Group [d]	Global warming potential (100 yr.)
Default GWPs for Compounds for Which Chemical-Specific GWPs Are Not Listed Above	
Fully fluorinated GHGs	10,000
Saturated hydrofluorocarbons (HFCs) with 2 or fewer carbon-hydrogen bonds	3,700
Saturated HFCs with 3 or more carbon-hydrogen bonds	930
Saturated hydrofluoroethers (HFEs) and hydrochlorofluoroethers (HCFEs) with 1 carbon-hydrogen bond	5,700
Saturated HFEs and HCFEs with 2 carbon-hydrogen bonds	2,600
Saturated HFEs and HCFEs with 3 or more carbon-hydrogen bonds	270

Fluorinated formates	350
Fluorinated acetates, carbonofluoridates, and fluorinated alcohols other than fluorotelomer alcohols	30
Unsaturated perfluorocarbons (PFCs), unsaturated HFCs, unsaturated hydrochlorofluorocarbons (HCFCs), unsaturated halogenated ethers, unsaturated halogenated esters, fluorinated aldehydes, and fluorinated ketones	1
Fluorotelomer alcohols	1
Fluorinated GHGs with carbon-iodine bond(s)	1
Other fluorinated GHGs	2,000

[a] The GWP for this compound was updated in the final rule published on November 29, 2013 [78 FR 71904] and effective on January 1, 2014.

[b] This compound was added to Table A-1 in the final rule published on December 11, 2014, and effective on January 1, 2015.

[c] The GWP for this compound was updated in the final rule published on December 11, 2014, and effective on January 1, 2015 .

[d] For electronics manufacturing (as defined in § 98.90), the term "fluorinated GHGs" in the definition of each fluorinated GHG group in § 98.6 shall include fluorinated heat transfer fluids (as defined in § 98.98), whether or not they are also fluorinated GHGs.

[79 FR 73779, Dec. 11, 2014]

From District Rule 2301,

Carbon Dioxide Equivalent (CO2E): the mass of carbon dioxide (CO2) that would have the same global warming potential as a given mass of another greenhouse gas. Conversions between GHGs and CO2Es shall be made using the conversion factors in Table 1.

Table 1
Conversion factors between GHGs and CO2E

GHG metric ton	**CO2E metric ton**
CO2	1
CH4	21
N2O	310
HFC-23 (hydrofluorocarbons)	11,700
HFC-32	650
HFC-125	2,800
HFC-134a	1,300
HFC-143a	3,800
HFC-152a	140
HFC-227ea	2,900
HFC-236fa	6,300
HFC-4310mee	1,300
CF4 (perfluorocarbons)	6,500
C2F6	9,200
C4F10	7,000
C6F14	7,400
SF6 (sulfur hexafluoride)	23,900

Attachment E

Draft ERC Certificates

San Joaquin Valley
Air Pollution Control District

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate

C-1444-1

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For VOC Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1 lbs	None	None	4 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate

DRAFT

C-1444-2

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
10 lbs	None	None	85 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Jun 13 2018 3:25PM -- OGDENA

San Joaquin Valley
Air Pollution Control District

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate

C-1444-3

DRAFT

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For CO Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2 lbs	None	None	17 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate

C-1444-4

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,206 lbs	None	None	9,721 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate

C-1444-24

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: <DRAFT>

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For CO2E Reductions In The Amount Of:

56 metric tons / year

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Emission Reduction Qualification Criteria

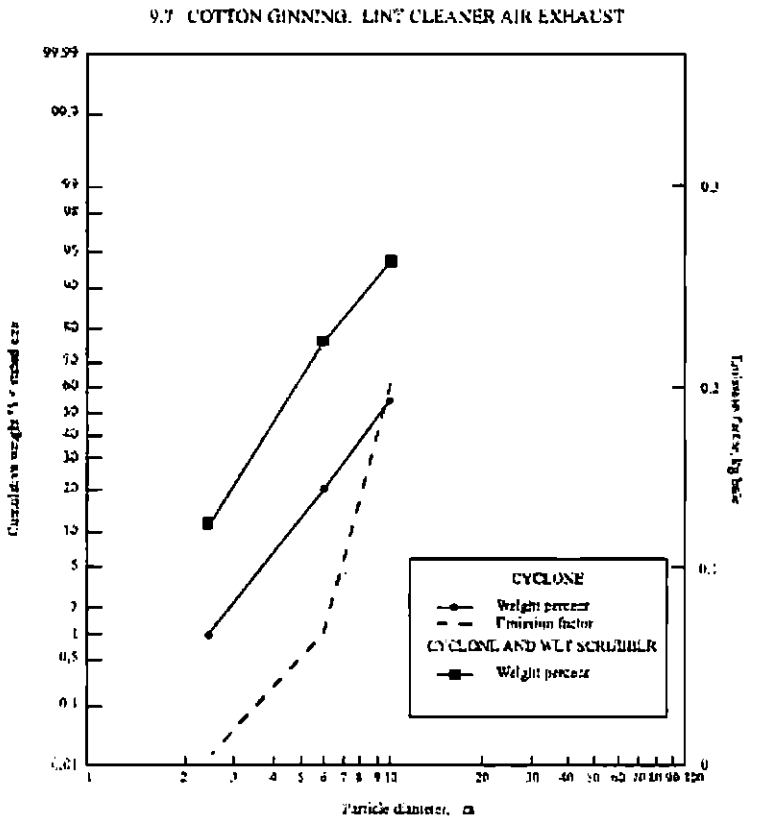
Seyed Sadredin, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Attachment F

$PM_{2.5}$ Fraction

$PM_{2.5}$ Fraction from EPA AP-42 Section 9.7 Appendix B-1



Aerodynamic particle diameter, m	Cumulative wt. % < stated size		Emission factor, kg/bale
	After cyclone	After cyclone & wet scrubber	Controlled with fabric filter
2.5	8	17	0.36
6.0	20	74	0.27
10.0	54	92	0.20

Lint cleaners are the largest source of emissions from the cotton ginning process. Therefore, the $PM_{2.5}$ fraction of the PM_{10} from lint cleaners is representative of the $PM_{2.5}$ fraction from the entire cotton gin. Based on the data in the chart above, the final $PM_{2.5}$ fraction is calculated to be:

$$PM_{2.5}Fraction = \frac{\frac{1\ lb\ PM_{2.5}}{lb\ PM}}{\frac{54\ lb\ PM_{10}}{lb\ PM}} x\ 100\% = 1.851 \rightarrow 1.9\% \frac{PM_{2.5}}{PM_{10}}$$

FIELD CROPS

Kings County Annual Crop Report

Crop	Year	Harvested Acres	Production Per Acre	Total	Unit	Value Per Unit	Total
lfalfa, Hay	2017	22,903	7.49	171,543	Ton	$177.00	$30,363,00
	2016	27,485	7.69	211,360	Ton	$142.00	$30,013,00
lfalfa, Silage	2017	557	6.56	3,654	Ton	$35.10	$128,00
	2016	3,046	4.13	12,580	Ton	$34.40	$433,00
lfalfa, Silage All Year	2017	1,620	21.35	34,587	Ton	$39.20	$1,356,00
	2016	1,137	30.18	34,315	Ton	$23.10	$793,00
arley, Silage a/	2017	7,318	13.02	95,280	Ton	$26.00	$2,477,00
	2016				Ton		
orn, Silage	2017	48,107	23.20	1,116,082	Ton	$41.80	$46,652,00
	2016	44,962	25.25	1,135,291	Ton	$40.10	$45,525,00
otton, Acala - Lint b/	2017	10,599	2.93	31,055	Bale	$396.00	$12,298,00
	2016	8,535	3.64	31,067	Bale	$427.00	$13,266,00
otton, Acala - Seed	2017			12,810	Ton	$280.00	$3,587,00
	2016			13,442	Ton	$292.50	$3,932,00
otton Pima - Lint b/	2017	101,791	2.67	271,782	Bale	$746.00	$202,749,00
	2016	80,540	3.20	257,728	Bale	$683.00	$176,028,00
otton Pima - Seed	2017			112,110	Ton	$255.00	$28,588,00
	2016			111,512	Ton	$255.00	$28,436,00
at, Hay	2017	1,039	3.04	3,159	Ton	$94.00	$297,00
	2016	892	3.01	2,685	Ton	$62.00	$166,00
asture Range	2017	337,691			Ton	$13.50	$4,559,00
	2016	311,816			Ton	$11.25	$3,508,00
orghum Silage	2017	16,897	15.16	256,159	Ton	$31.30	$8,018,00
	2016	12,412	17.97	223,044	Ton	$27.80	$6,201,00
riticale, Silage	2017	1,776	15.82	28,096	Ton	$30.40	$854,00
	2016	2,198	16.01	35,190	Ton	$24.20	$852,00

FIELD CROPS

Kings County Annual Crop Report

Crop	Year	Harvested Acres	Production Per Acre	Total	Unit	Value Per Unit	Total
lfalfa, Hay	2015	38,890	7.48	290,897	Ton	$182.00	$52,943,00
	2014	36,597	8.17	298,997	Ton	$252.00	$75,347,00
lfalfa, Silage	2015	635	4.81	3,054	Ton	$38.90	$119,00
	2014	6,432	2.63	16,916	Ton	$55.30	$935,00
lfalfa, Silage All Year	2015	2,251	38.60	86,889	Ton	$38.50	$3,345,00
	2014	1,927	35.39	68,197	Ton	$54.20	$3,696,00
lfalfa, Stubble	2015	9,723			Ton	$25.00	$243,00
	2014	9,149			Ton	$25.00	$229,00
arley, Silage a/	2015	5,965	12.42	74,085	Ton	$41.50	$3,075,00
	2014				Ton		
orn, Silage	2015	42,194	25.96	1,095,356	Ton	$52.60	$57,616,00
	2014	51,121	25.61	1,309,209	Ton	$65.20	$85,360,00
otton, Acala - Lint b/	2015	4,727	3.43	16,214	Bale	$487.00	$7,896,00
	2014	6,710	3.57	23,955	Bale	$451.00	$10,804,00
otton, Acala - Seed	2015			7,015	Ton	$411.00	$2,883,00
	2014			10,365	Ton	$380.00	$3,939,00
otton Pima - Lint b/	2015	65,015	3.07	199,596	Bale	$687.00	$137,122,00
	2014	68,353	3.12	213,261	Bale	$871.00	$185,750,00
otton Pima - Seed	2015			86,360	Ton	$340.00	$29,362,00
	2014			92,272	Ton	$337.00	$31,096,00
at, Hay	2015	1,323	3.12	4,128	Ton	$111.00	$458,00
	2014	1,085	3.74	4,058	Ton	$188.00	$763,00
at, Silage	2015	815	10.50	8,558	Ton	$97.20	$832,00
	2014	593	14.41	8,545	Ton	$42.20	$361,00
asture Range	2015	312,330			Ton	$8.03	$2,508,00
	2014	295,509			Ton	$3.00	$887,00

Kings County Annual Crop Report

FIELD CROPS

Crop	Year	Harvested Acres	Production Per Acre	Total	Unit	Value Per Unit	Total
Alfalfa, Hay	**2012**	**53,098**	**7.52**	**399,297**	**TON**	**$214.00**	**$85,450,000**
	2011	47,768	8.14	388,832	TON	$241.00	$93,709,000
Alfalfa, Silage	**2012**	**2,390**	**4.13**	**9,871**	**TON**	**$46.30**	**$457,000**
	2011	5,952	3.51	20,892	TON	$49.00	$1,024,000
Alfalfa, Silage All Year	**2012**	**2,461**	**35.17**	**86,553**	**TON**	**43.00**	**$3,722,000**
	2011	1,654	31.88	52,730	TON	$51.40	$2,710,000
Alfalfa, Stubble	**2012**	**13,275**				**$25.00**	**$332,000**
	2011	11,942				$25.00	$299,000
Barley, Silage a/	**2012**						
	2011	3,008	8.00	24,064	TON	$36.70	$883,000
Beans, Dry	**2012**	**996**	**1.53**	**1,524**	**TON**	**$1,044.00**	**$1,591,000**
	2011	764	1.25	955	TON	$745.00	$711,000
Corn Grain	**2012**	**6,523**	**6.18**	**40,312**	**TON**	**$260.80**	**$10,513,000**
	2011	4,582	4.99	22,864	TON	$233.00	$5,327,000
Corn Silage	**2012**	**58,243**	**25.94**	**1,510,823**	**TON**	**$49.50**	**$74,786,000**
	2011	57,220	25.92	1,483,142	TON	$48.60	$72,081,000
Cotton, Acala - Lint b/	**2012**	**17,501**	**3.72**	**65,104**	**495 lbs.**	**$499.00**	**$32,487,000**
	2011	22,995	3.00	68,985	495 lbs.	$569.00	$39,252,000
Cotton, Acala - Seed	**2012**			**28,176**	**TON**	**$390.00**	**$10,989,000**
	2011			29,819	TON	$315.00	$9,393,000
Cotton, Pima - Lint b/	**2012**	**99,651**	**3.57**	**355,754**	**495 lbs.**	**$641.00**	**$228,038,000**
	2011	109,900	2.68	**294,532**	495 lbs.	$806.00	$237,393,000
Cotton Pima - Seed	**2012**			**154,103**	**TON**	**$360.00**	**$55,477,000**
	2011			127,489	TON	$315.00	$40,159,000
Oat, Hay	**2012**	**4,326**	**3.22**	**13,930**	**TON**	**$163.00**	**$2,271,000**
	2011	3,723	3.04	11,318	TON	$152.00	$1,720,000

Kings County Annual Crop Report

FIELD CROPS

Crop	Year	Harvested Acres	Production Per Acre	Total	Unit	Value Per Unit	Total
Alfalfa, Hay	**2010**	**62,379**	**7.58**	**472,833**	**TON**	**$136.00**	**64,305,000**
	2009	62,423	7.71	481,281	TON	$106.00	$51,016,000
Alfalfa, Silage	**2010**	**11,360**	**3.08**	**34,989**	**TON**	**$29.20**	**$1,022,000**
	2009	5,361	4.80	25,733	TON	$23.70	$610,000
Alfalfa, Silage All Year	**2010**	**2,188**	**30.00**	**65,640**	**TON**	**$24.40**	**$1,602,000**
	2009	2,050	38.07	78,044	TON	$19.80	$1,545,000
Alfalfa, Stubble	**2010**	**15,595**				**$25.00**	**$390,000**
	2009	15,606				$25.00	$390,000
Barley, Grain b/	**2010**						
	2009	661	2.00	1,322	TON	$175.00	$231,000
Barley, Silage a/	**2010**	**700**	**9.13**	**6,391**	**TON**	**22.00**	**$141,000**
	2009				TON		
Beans, Dry	**2010**	**2,703**	**1.25**	**3,379**	**Cwt.**	**$715.00**	**$2,416,000**
	2009	2,343	1.13	2,648	Cwt.	$781.00	$2,068,000
Corn Grain	**2010**	**3,574**	**5.07**	**18,120**	**TON**	**$165.00**	**$2,990,000**
	2009	3,866	4.37	16,894	TON	$151.00	$2,551,000
Corn Silage	**2010**	**56,745**	**26.06**	**1,478,775**	**TON**	**$34.60**	**$51,166,000**
	2009	63,232	26.99	1,706,632	TON	$25.70	$43,860,000
Cotton, Acala - Lint c/	**2010**	**17,870**	**2.83**	**50,572**	**495 lbs.**	**$553.00**	**$27,966,000**
	2009	8,442	3.33	28,112	495 lbs.	$368.00	$10,345,000
Cotton, Acala - Seed	**2010**			**21,918**	**TON**	**$284.00**	**$6,225,000**
	2009			12,165	TON	$280.00	$3,406,000
Cotton, Pima - Lint c/	**2010**	**83,417**	**2.48**	**206,874**	**495 lbs.**	**$897.00**	**$185,566,000**
	2009	59,584	2.94	175,177	495 lbs.	$586.00	$102,654,000

Kings County Annual Crop Report

Crop	Year	Harvested Acreage	Production Per Acre	Total	Unit	Value Per Unit	Total
Alfalfa, Hay	**2008**	**75,941**	**6.51**	**494,376**	**TON**	**$208.00**	**$102,830,000**
	2007	61,255	7.45	456,350	TON	$179.00	$81,687,000
Alfalfa, Silage	**2008**	**10,204**	**4.01**	**40,918**	**TON**	**$38.70**	**$1,584,000**
	2007	16,208	6.18	100,165	TON	$39.00	$3,906,000
Alfalfa, Stubble	**2008**	**18,985**			**TON**	**$25.00**	**$475,000**
	2007	15,314			TON	$25.00	$383,000
Barley, Grain a/	**2008**				**TON**		
	2007	1,829	2.00	3,658	TON	$150.00	$549,000
Barley, Silage	**2008**	**962**	**11.10**	**10,678**	**TON**	**$31.00**	**$331,000**
	2007	800	14.00	11,200	TON	$20.00	$224,000
Corn Grain	**2008**	**2,953**	**5.29**	**15,621**	**TON**	**$196.00**	**$3,062,000**
	2007	3,415	5.74	19,602	TON	$124.00	$2,431,000
Corn Silage	**2008**	**73,944**	**27.00**	**1,996,488**	**TON**	**$48.10**	**$96,031,000**
	2007	55,383	26.96	1,493,126	TON	$33.00	$49,273,000
Cotton Acala-Lint b/	**2008**	**13,515**	**3.04**	**41,086**	**495 lbs.**	**$374.00**	**$15,366,000**
	2007	21,150	3.47	73,391	495 lbs.	$355.00	$26,054,000
Cotton Acala- Seed	**2008**			**17,751**	**TON**	**$260.00**	**$4,615,000**
	2007			31,713	TON	$290.00	$9,197,000
Cotton Pima- Lint b/	**2008**	**72,465**	**2.49**	**180,438**	**495 lbs.**	**$569.00**	**$102,669,000**
	2007	110,245	2.91	320,813	495 lbs.	$503.00	$161,369,000
Cotton Pima- Seed	**2008**			**78,165**	**TON**	**$230.00**	**$17,978,000**
	2007			138,966	TON	$275.00	$38,216,000
Forage a/	**2008**				**TON**		
	2007	1,772	14.67	25,995	TON	$25.00	$650,000

Kings County Annual Crop Report

Field Crops

Crop	Year	Harvested Acreage	Production Per Acre	Total	Unit	Value Per Unit	Total
Beans, Dry a/	**2006**	**2,671**	**0.76**	**2,030**	**TON**	**$598.00**	**$1,214,000**
	2005	2,267	1.58	3,582	TON	$616.00	$2,207,000
Corn Silage	**2006**	**66,875**	**26.04**	**1,741,425**	**TON**	**$24.00**	**$41,794,000**
	2005	65,502	25.30	1,657,201	TON	$27.30	$45,242,000
Cotton Acala-Lint b/	**2006**	**48,935**	**2.84**	**138,975**	**495 lbs**	**$341.00**	**$47,390,000**
	2005	107,229	2.64	283,085	495 lbs	$367.00	$103,892,000
Acala- Seed	**2006**			**60,204**	**TON**	**$189.00**	**$11,379,000**
	2005			122,553	TON	$175.00	$21,447,000
Cotton Upland Non-Approved-Lint	**2006**	**18,799**	**2.66**	**50,005**	**495 lbs**	**$341.00**	**$17,052,000**
	2005	16,730	2.72	45,506	495 lbs	$361.00	$16,428,000
Cotton Upland Non-Approved-Seed	**2006**			**51,562**	**TON**	**$189.00**	**$9,745,000**
	2005			46,904	TON	$175.00	$8,208,000
Cotton Pima- Lint	**2006**	**95,880**	**2.25**	**215,730**	**495 lbs**	**$519.00**	**$111,964,000**
	2005	92,250	1.46	134,685	495 lbs.	$591.00	$79,599,000
Pima- Seed	**2006**			**93,258**	**TON**	**$180.00**	**$16,786,000**
	2005			58,454	TON	$140.00	$8,184,000
Cotton Pima Non-Approved-Lint	**2006**	**1,906**	**2.32**	**4,422**	**495 lbs.**	**$519.00**	**$2,295,000**
	2005	7,645	2.01	15,366	495 lbs.	$615.00	$9,450,000
Cotton Pima Non-Approved-Seed	**2006**			**4,556**	**TON**	**$180.00**	**$820,000**
	2005			15,833	TON	$140.00	$2,217,000
Hay Alfalfa	**2006**	**69,806**	**6.72**	**469,096**	**TON**	**$128.00**	**$60,044,000**
	2005	54,887	7.20	395,186	TON	$137.00	$54,140,000
Hay, Oat b/	**2006**	**2,378**	**4.05**	**9,631**	**TON**	**$80.00**	**$770,000**
	2005	6,695	2.58	17,273	TON	$88.40	$1,527,000

Kings County Annual Crop Report

Field Crops

Crop	Year	Harvested Acreage	Production Per Acre	Total	Unit	Value Per Unit	Total
Beans, Dry a/ b/	2004	1,783	1.10	1,961	TON	$634.00	$1,243,000
	2003						
Corn Silage	2004	55,233	23.22	1,282,510	TON	$25.00	$32,063,000
	2003	50,298	24.63	1,238,840	TON	$21.36	$26,462,000
Cotton Acala-Lint c/	2004	88,890	3.06	272,003	495 lbs.	$359.00	$97,649,000
	2003	89,314	2.58	230,430	495 lbs.	$378.28	$87,167,000
Acala- Seed	2004			112,354	TON	$170.00	$19,100,000
	2003			95,062	TON	$195.00	$18,537,000
Cotton Upland Non-Approved	2004	15,696	2.99	46,931	495 lbs.	$369.00	$17,318,000
	2003	11,906	2.42	28,813	495 lbs.	$377.85	$10,887,000
Cotton Upland Non-Approved Seed	2004			19,382	TON	$170.00	$3,295,000
	2003			11,909	TON	$195.00	$2,322,000
Cotton Pima- Lint	2004	8,932	2.89	25,813	495 lbs.	$465.00	$12,003,000
	2003	56,333	1.95	109,849	495 lbs.	$603.43	$66,286,000
Pima- Seed	2004			10,665	TON	$120.00	$1,280,000
	2003			45,409	TON	$190.00	$8,628,000
Cotton Pima Non-Approved	2004	70,188	2.63	184,594	495 lbs.	$508.00	$93,774,000
	2003	4,537	2.02	9,165	495 lbs.	$602.72	$5,524,000
Cotton Pima Non-Approved Seed	2004			76,116	TON	$120.00	$9,134,000
	2003			3,790	TON	$190.00	$720,000
Hay Alfalfa	2004	59,575	7.52	448,004	TON	$113.00	$50,624,000
	2003	76,760	6.36	488,194	TON	$93.83	$45,807,000
Hay, Oat b/	2004	6,132	3.51	21,523	TON	$87.00	$1,873,000
	2003				TON		

a/ all Dry Beans.
b/ included in Others in 2003.
c/ 495 lbs. = 1 bale

ERC Banking Preliminary Review Checklist

Guiding principle: The preliminary review is limited to those tasks necessary to assure that the District has obtained all necessary information to perform the final evaluation.

Facility I.D. Number	**C-0259**
Project Number	**C-1173456**
Company Name	**Central Valley Cooperative Inc.**
Location of Reduction	**9845 Hanford-Armona Rd Hanford**
Process Engineer	**Andrea Ogden**
Date	**February 8, 2018**

Application Type		Permit Unit Number(s)
☒	Existing emissions units to be surrendered/modified	**C-259-1-6 and -2-6**
☐	Existing emissions units to be modified	

Project Proposal (complete and concise description)

The facility is proposing to shutdown the cotton gin permitted under PTOs C-259-1-6 and -2-6
See Project C-1171039 for cotton acreage records
Use Cotton Ginner's handbook for emission factors for specific pieces of equipment and processes
Date of Reduction (last operation) 8/22/16 and date received by District (12/11/17) is greater than 180 days. However APR 1805 defines shut down as when the permit was surrendered. The permits have not been surrendered and the facility could still operate the equipment if they decided to. Therefore the application has been submitted in a timely matter (within the 180 day requirement.)

	Application Content	Yes	No
1.	Does the application provide the date of reduction?	☒	☐ Incomplete
2.	Does the application provide the date received by the District?	☒	☐ Incomplete
3.	Is the date of reduction and date received by the District greater than 180 days?	☒ STOP! Emissions cannot be banked, see your supervisor.	☐
4.	Are the claimed ERCs from any of the following: • A gasoline dispensing operation, • A dry cleaning operation, • A fossil fuel-fired power plant as the result of the operation of a cogeneration facility, • An operation for which the District originally provided the required offsets, or • An operation for which offsets were originally provided but are now no longer enforceable by the District such as open burning of agricultural waste used to offset emissions from a resource recovery project?	☐ STOP! Emissions cannot be banked, see your supervisor.	☒
5.	Does the application indicate the method of emissions reduction, and include a concise and complete description of the actions taken for each emission unit to reduce emissions? • Shutdown of emissions unit(s) (as defined in District Rule 2031 Section 3.11 and discussed in District Policy APR-1805) • Retrofit of emissions unit(s) (including ATC #s authorizing retrofit if applicable) • Process change in emissions unit(s) (including ATC #s authorizing process change if applicable)	☒	☐ Incomplete
6.	Does the application include the amount of ERCs being sought by the applicant for each criteria pollutant, and how these claimed ERC values were calculated?	☒	☐ Incomplete

7.	Does the application provide the permit number(s) being surrendered or modified?	☒	☐ Incomplete
8.	Does the application include banking emissions from unpermitted equipment?	☐ See your supervisor	☒
9.	Has the applicant submitted an application for an In-House PTO for unpermitted equipment from which banked emissions are being sought, OR if the District cannot legally permit the equipment, has the applicant agreed in writing to enter into a legally binding contract with the District to provide bank emissions that will comply with Rule 2301?	☐ See your supervisor	☒
10.	Does the application have a signature?	☒	☐ Incomplete

	Supplemental Data	**Yes**	**No**
11.	If seasonal operation, have all seasonal start and stop dates been made available for the past 2 or 5 years (if the last two years are not representative of a normal operation)? ***Not applicable*** ☐	☒	☐ Incomplete
12.	Have all historical actual operational data been provided by the applicant for the past 2 – 5 years (if the last two years are not representative of a normal operation)? If No, requested the historical actual data either in days, months or quarters, only.	☒	☐ Incomplete
13.	Have all appropriate emission factor(s) been determine or obtained? If yes, check one box for source of information: ☐ Continuous Emissions Monitoring (CEM) data from the emission point(s) in question; ☐ Source test data from the emission point(s) in question; ☒ Permit emission factor(s); ☐ AP-42 or industry derived emission factors; ☐ Manufacturer's guarantee; ☒ CEM data or Source test data at similar emission points	☒	☐ Incomplete

	PAS System	**Yes**	**No**
14.	Have application(s) for each pollutant the applicant is proposing to bank ERC's for been created for this project?	☒	☐ Create Certificate(s)

	Reimbursable Overtime Fees	**Yes**	**No**
15.	Has the applicant requested reimbursable overtime processing?	☐	☒ Skip to 17
16.	Has the applicant provided a weekend contact, weekend phone number, etc.?	☐	☐ Incomplete

	Filing Fees	**Yes**	**No**
17.	Have all the filing fees been paid?	☒	☐ Incomplete, unless RO

Completeness Determination

If the application is incomplete by any of the questions in this preliminary review form, the missing information must be obtained. If the information is too comprehensive to obtain by phone, or attempts to gather the information by phone have been unsuccessful as of your due-date, then deem the application incomplete and send an incompleteness letter detailing the missing information and/or fees. OTHERWISE, deem the application complete.

Comments and References
See C-1171039 for a recent evaluation **Emissions Inventory Documents to use for comparison for baseline emissions are available in PAS**

TO: Distribution

FROM: Mark Boese, Deputy APCO

DATE: April 9, 1992

RE: POLICY ON THE INTERPRETATION OF THE DEFINITION OF SHUTDOWN (RULE 230.1, SECTION III.L)

PURPOSE: The purpose of this policy is to establish District-wide uniformity Of interpretation of the definition of Shutdown as it appears in Rule 230.1, Emission Reduction Credit Banking, Section III.L.

INTERPRETATON:

For unpermitted sources, the date of the shutdown shall be the date of the last emissions from the emissions unit.

For permitted sources, the date of the shutdown shall be the date of the surrender of the operating permit, unless the Control Officer determines that:

a) the unit has been removed or has fallen into an inoperable and unmaintained condition such that start-up would require an investment exceeding 50% of the current replacement cost; and,

b) the owner cannot demonstrate to the satisfaction of the Control Officer that the owner intended to operate again. Evidence of "intent to operate again" may include valid production contracts, orders, other agreements, or any economically based reasons which would require the operation of the emissions unit.

Should the Control Officer make determinations a) and b), the date of the shutdown shall be the date of the last emissions from the emissions unit.

Distribution: David Crow, APCO
Bob Dowell, Fresno Zone
Bill Roddy, Kern Zone
Bill Sturk, Madera Zone
Jeff Palsgard, Merced Zone
Lahkmir Grewal, San Joaquin Zone
Anthony Mendes, Stanislaus
Mark Bairstow, Tulare Zone

Tulare County Zone
San Joaquin Valley Unified Air Pollution Control district

MEMO

To: Mark Boese, Deputy APCO

From: Dave Warner, Tulare Zone

Subject:: Attached Draft Policy on Interpretation of the Definition of Shutdown (Rule 230.1, Section III.L)

RECOMMENDATION:

It is the recommendation of the Valley Engineers that the attached draft policy be implemented for the purpose of unifying the interpretation of the definition of Shutdown (Rule 230.1, Section III.L).

We further recommend that the definition be changed, by rule amendment, at the first opportunity. The wording of the attached interpretation may be appropriate for such an amendment.

REASONS FOR RECOMMENDATION:

The first and second sentences of this definition may be considered to conflict, leading to some confusion in zone offices and in the regulated industry:

"L. Shutdown: shall mean either the earlier of the permanent cessation of emissions from an emitting unit or the surrender of that unit's operating permit. If, prior to the surrender of the operating permit, the Control Officer determines that: (a) the unit has been removed or fallen into an inoperable and unmaintained condition such that start-up would require an investment exceeding 50% of the current replacement cost; and (b) the owner cannot demonstrate to the satisfaction of the Control Officer that the owner intended to operate again ..."

A cotton gin in the Tulare Zone has presented the case that the date of the "shutdown" of their gin was the date they submitted an application for emission reduction credits and surrendered their permit. They argued that the second sentence in the definition requires the District to determine the date of "permanent cessation of emissions" prior to the surrender of the operating permit.

Tulare Zone disagreed with this interpretation, stating that the first sentence provides the over-riding definition while the following sentences were intended to provide clarification and procedural guidance. However, we recognize that some ambiguity exists.

These recommendations are being made to unify the interpretation of the current definition, and secondly, to provide guidance for a future rule revision.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING

Permit to Operate

FACILITY: C-259 **EXPIRATION DATE:** 10/31/2018

LEGAL OWNER OR OPERATOR: CENTRAL VALLEY COOPERATIVE INC
MAILING ADDRESS: PO BOX 1850
HANFORD, CA 93232-1850

FACILITY LOCATION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

FACILITY DESCRIPTION: COTTON GINNING

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

This Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

Seyed Sadredin
Executive Director / APCO

Arnaud Marjollet
Director of Permit Services

Jan 2 2018 11:29AM -- OGDENA

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-259-1-6 **EXPIRATION DATE:** 10/31/2018

EQUIPMENT DESCRIPTION:
COTTON GIN (#1 EAST SIDE) WITH 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 3 MMBTU/HR LINT CLEANER DRYER #3 FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -2), BATTERY CONDENSER, SEED STORAGE SHELTER WITH TWO BLOWERS FOR SEED AERATION AND PNEUMATIC SEED TRANSPORTATION

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
5. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201]
6. Daily ginning rate shall not exceed 180 tons of baled cotton per day (720 bales per day, corrected to 500-pound bales). [District Rule 2201]
7. Annual ginning rate shall not exceed 15,962.5 tons of baled cotton per year (63,850 bales/year, corrected to 500-pound bales). [District Rule 2201]
8. PM10 emissions shall not exceed 1.02 pounds per bale, corrected to 500-pound cotton bales. [District Rule 2201]
9. When firing on natural gas, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.0003 lb-SOx/MMBtu or 0.006 lb-VOC/MMBtu. [District Rule 2201]
10. When firing on Propane, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.008 lb-SOx/MMBtu or 0.005 lb-VOC/MMBtu. [District Rule 2201]
11. The unloading system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
12. The #1 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
13. The #2 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
14. The #3 pre-cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
15. The #1 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The #2 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
17. The #3 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
18. The battery condenser shall be controlled by three 52" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
19. The gin stand feeder trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
20. The mote system shall be controlled by one 72" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
21. The mote condenser pull shall be controlled by one 68" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
22. The mote transfer system shall be controlled by one 28" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
23. The motes cleaner trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
24. The motes condenser robber system shall be controlled by one 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
25. The overflow system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
26. The trash loading area shall be enclosed with four sides that are higher than the trash auger. Two sides shall be solid. The remaining sides shall have a combination of flexible wind barriers that extend below the top of the trash trailer sides and solid doors that remain shut while trash trailers are being loaded, except as necessary to accommodate trailer movement. [District Rule 4204]
27. Permittee shall conduct daily visual inspections of the material handling systems for leaks, breaks, or other visible signs of equipment malfunctions. [District Rule 4204]
28. Permittee shall maintain a record of the daily inspections of the material handling systems, including any equipment malfunctions discovered and corrective action taken to repair the malfunction, and any source test results. [District Rule 4204]
29. Permittee shall record daily processing rate and operating schedule. [District Rule 1070]
30. All records shall be retained on site for at least five years and made available to the District upon request. [District Rules 1070 and 4204]

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-259-2-6 **EXPIRATION DATE:** 10/31/2018

EQUIPMENT DESCRIPTION:
COTTON GIN (#2 WEST SIDE) WITH 3 CONTINENTAL SAW GIN STANDS, 6 LINT CLEANERS AND CONDENSERS, 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 1 MMBTU/HR LINT CLEANER DRYER #3, FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -1), BATTERY CONDENSER, TRASH SYSTEM AND MODULE FEEDER

PERMIT UNIT REQUIREMENTS

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District Rule 4102]
2. Material removed from dust collector(s) shall be disposed of in a manner preventing entrainment into the atmosphere. [District Rule 2201]
3. Daily ginning rate shall not exceed 180 tons of baled cotton per day (720 bales per day, corrected to 500-pound bales). [District Rule 2201]
4. Annual ginning rate shall not exceed 15,962.5 tons of baled cotton per year (63,850 bales/year, corrected to 500-pound bales). [District Rule 2201]
5. PM10 emissions shall not exceed 0.92 pounds per bale, corrected to 500-pound cotton bales. [District Rule 2201]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
8. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
9. When firing on natural gas, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.0003 lb-SOx/MMBtu or 0.006 lb-VOC/MMBtu. [District Rule 2201]
10. When firing on Propane, emission from dryer burner #1, #2 or #3 shall not exceed any of the following limits: 0.1 lb-NOx/MMBtu; 0.02 lb-CO/MMBtu; 0.008 lb-SOx/MMBtu or 0.005 lb-VOC/MMBtu. [District Rule 2201]
11. The unloading system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
12. The #1 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
13. The #2 pre-cleaning system shall be controlled by three 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
14. The #3 pre-cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
15. The #1 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

16. The #2 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
17. The #3 lint cleaning system shall be controlled by four 38" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
18. The battery condenser shall be controlled by three 52" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
19. The gin stand and feeder trash system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
20. The motes system shall be controlled by one 72" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
21. The motes transfer shall be controlled by one 28" 1D-3D cyclone, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
22. The overflow system shall be controlled by two 36" 1D-3D cyclones, operating at a cyclone inlet air velocity of 3200 ñ 400 ft/min. [District Rule 2201]
23. The trash loading area shall be enclosed with four sides that are higher than the trash auger. Two sides shall be solid. The remaining sides shall have a combination of flexible wind barriers that extend below the top of the trash trailer sides and solid doors that remain shut while trash trailers are being loaded, except as necessary to accommodate trailer movement. [District Rule 4204]
24. Permittee shall conduct daily visual inspections of the material handling systems for leaks, breaks, or other visible signs of equipment malfunctions. [District Rule 4204]
25. Permittee shall maintain a record of the daily inspections of the material handling systems, including any equipment malfunctions discovered and corrective action taken to repair the malfunction, and any source test results. [District Rule 4204]
26. Permittee shall record daily processing rate and operating schedule. [District Rule 1070]
27. All records shall be retained on site for at least five years and made available to the District upon request. [District Rules 1070 and 4204]

4293459

PUBLIC NOTICE CHECK LIST

PROJECT #: C-259 PROJECT #: C-1173456

REQST.	COMPL.	
√	__	ERC PRELIMINARY PUBLIC NOTICE
√	☒	Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice)
√	__	Send email to "OA-PublicNotices" containing the following: SUBJECT: facility name, facility id#, project #, type of notice (prelim/final) BODY: project description and why it is being noticed (Emission Reduction Credit Banking)

ENCLOSED DOCUMENTS REQUIRE:

√	__	Enter Correct Date, Print All Documents from File and Obtain Director's Signature
√	✓	Determine date comment period will end, enter date on Newspaper Notice and Aviso en Español, and Email ***PRELIMINARY*** Newspaper Notice for Publication in Fresno Bee Pub Date: 9.11.18 Due Date: 10.11.18
√	✓	Mail/email ***PRELIMINARY*** Notice Letter to Applicant (email address: N/A) with the following attachments: √ Application Evaluation √ Newspaper Notice
√	✓	Email ***PRELIMINARY*** Public Notice package to EPA
√	✓	Email ***PRELIMINARY*** Public Notice package to CARB
√	✓	Email ***PRELIMINARY*** Newspaper Notice, Aviso en Español and Public Notice package to "webmaster"
√	__	After posted on website, send email with weblink of Newspaper notice, Aviso en Español, and full public notice package to: √ specific [C, S, or N] region **and** District wide permitting notification list-serves (both English and Spanish list serves) √ facility specific distribution list, (AQE – enter email address from PAS facility details notifications tab, if none enter NONE below): NONE
√	__	Mail the newspaper notice and aviso en español (NN/AE), or full public notice package (FPNP) to the persons on facility specific distribution list, as follows (entered by AQE, if none, enter NONE below): ☐NN/AE or ☐FPNP Name/address:NONE ☐NN/AE or ☐FPNP Name/address:NONE
√	✓	Send ***PRELIMINARY*** Public Notice package to EDMS
__	__	Other Special Instructions (please specify):_____

Date Completed August 1, 2018/By Andrea Ogden

CALIFORNIA NEWSPAPER SERVICE BUREAU

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ARIANA OROZCO
SAN JOAQUIN VALLEY AIR POLL CONTROL DIST
1990 E. GETTYSBURG AVE.
FRESNO, CA 93726

CNS 3170967

COPY OF NOTICE

Notice Type: GPN GOVT PUBLIC NOTICE

Ad Description: Preliminary Public Notice for Central Valley Cooperative, Inc, Project #C-1173456, Bakersfield

To the right is a copy of the notice you sent to us for publication in the THE FRESNO BEE. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

09/11/2018

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

NOTICE OF PRELIMINARY DECISION FOR THE PROPOSED ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Central Valley Cooperative, Inc for shutdown of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs proposed for banking is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.
The analysis of the regulatory basis for this proposed action, Project # C-1173456, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. For additional information, please contact the District at (559) 230-6000. Written comments on this project must be sent or postmarked by October 11, 2018 to publicnotices@valleyair.org or **ARNAUD MARJOLLET, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726 .**
9/11/18
CNS-3170967#
THE FRESNO BEE

Ariana Orozco

From:	Ariana Orozco
Sent:	Tuesday, September 4, 2018 11:00 AM
To:	'ttle@arb.ca.gov'; 'SJV_T5_Permits@epamail.epa.gov'
Subject:	Preliminary Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456
Attachments:	Prelim C-1173456.pdf; Newspaper C-1173456.pdf
Importance:	High

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Central Valley Cooperative, Inc for shutdown of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs proposed for banking is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6106

HEALTHY AIR LIVING
www.healthyairliving.com
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Ariana Orozco

From: postmaster@carb.onmicrosoft.com
To: ttle@arb.ca.gov
Sent: Tuesday, September 4, 2018 11:00 AM
Subject: Delivered: Preliminary Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456

Your message has been delivered to the following recipients:

ttle@arb.ca.gov

Subject: Preliminary Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456

Ariana Orozco

From:	Ariana Orozco
Sent:	Tuesday, September 4, 2018 11:00 AM
To:	WebTeam
Subject:	valleyair.org update: Preliminary Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456
Attachments:	Prelim C-1173456.pdf; Aviso C-1173456.pdf; Newspaper C-1173456.pdf

September 4, 2018 (Facility C-259 Project C-1173456) NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Central Valley Cooperative, Inc for shutdown of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs proposed for banking is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr. The comment period ends on October 11, 2018.

Newspaper Notice

Aviso

Public Notice Package

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6106

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Ariana Orozco

From: Ariana Orozco
Sent: Monday, September 10, 2018 10:26 AM
To: 'notices_of_permitting_actions-all_regions@lists.valleyair.org'; 'notices_of_permitting_actions-central_region@lists.valleyair.org'
Subject: Public Notice on Permitting Action C-1173456

The District has posted a new permitting public notice. The public notice can be viewed on our website at: http://www.valleyair.org/notices/Docs/2018/09-04-18_(C-1173456)/Newspaper.pdf

For a list of public notices and public notice packages, please visit our website at: http://www.valleyair.org/notices/public_notices_idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

Ariana Orozco

From: Ariana Orozco
Sent: Monday, September 10, 2018 10:26 AM
To: 'Avisos_Sobre_Acciones_de_Permisos-Todos@lists02.valleyair.org'
Subject: Aviso Publico Sobre Acciones de Permisos C-1173456

El Distrito del Aire a publicado un nuevo aviso público de permiso. El aviso público se puede ver en nuestro sitio de web en: http://www.valleyair.org/notices/Docs/2018/09-04-18_(C-1173456)/Aviso.pdf

Para obtener una lista de avisos públicos y paquetes de avisos públicos, por favor visite nuestro sitio de web en: http://www.valleyair.org/notices/public_notices_idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Gracias,

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

Aviso en Español for posting on Valleyair.org

AVISO DE DECISIÓN PRELIMINAR
PARA LA PROPUESTA OTORGACIÓN DE
CERTIFICADOS DE REDUCCIÓN DE EMISIONES

POR EL PRESENTE SE NOTIFICA que el Distrito Unificado para el Control de la Contaminación del Aire del Valle de San Joaquín está solicitando comentarios del público para la propuesta emisión de Certificados de Reducción de Emisiones (ERC, por sus siglas en inglés) a Central Valley Cooperative, Inc para el cierre de la desmotadora de algodón, en 9845 Hanford-Armona Rd, Hanford, CA. La cantidad de ERCs propuestas para almacenar es 95 lb-NOx/año, 0 lb-SOx/año, 10,927 lb-PM10/año, 19 lb-CO/año, 5 lb-VOC/año y 56 toneladas de CO2e/año.

El análisis de la base regulatoria para esta acción propuesta, Proyecto # C-1173456, está disponible para la inspección pública en http://www.valleyair.org/notices/public_notices_idx.htm y en cualquiera de las oficinas del Distrito. Para más información en Español, por favor comuníquese con el Distrito al (559) 230-6000. Comentarios por escrito acerca de este proyecto deben ser sometidos o con matasellos antes del 11 de Octubre del 2018 a publicnotices@valleyair.org o a **ARNAUD MARJOLLET, DIRECTOR DEL DEPARTAMENTO DE PERMISOS, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**

NOTICE OF PRELIMINARY DECISION
FOR THE PROPOSED ISSUANCE OF
EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Unified Air Pollution Control District solicits public comment on the proposed issuance of Emission Reduction Credits to Central Valley Cooperative, Inc for shutdown of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs proposed for banking is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

The analysis of the regulatory basis for this proposed action, Project # C-1173456, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and at any District office. For additional information, please contact the District at (559) 230-6000. Written comments on this project must be sent or postmarked by October 11, 2018 to publicnotices@valleyair.org or **ARNAUD MARJOLLET, DIRECTOR OF PERMIT SERVICES, SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726.**

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

SEP – 4 2018

Louis Giacomazzi
Central Valley Cooperative, Inc
9845 Hanford-Armona Rd
Hanford, CA 93230

Re: Notice of Preliminary Decision – Emission Reduction Credits
Facility Number: C-259
Project Number: C-1173456

Dear Mr. Giacomazzi:

Enclosed for your review and comment is the District's analysis of Central Valley Cooperative, Inc's application for Emission Reduction Credits (ERCs) resulting from shutdown of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs proposed for banking is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice comment period, the District intends to the issue the ERCs. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Ms. Andrea Ogden of Permit Services at (559) 230-5886.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:ao

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

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

Emission Reduction Credit Banking Application Review

Shutdown of a Cotton Ginning Operation

Facility Name:	Central Valley Cooperative Inc.	Date:	August 1, 2018
Mailing Address:	9845 Hanford-Armona Rd Hanford, CA 93230	Engineer:	Andrea Ogden
		Lead Engineer:	Joven Refuerzo
Contact Person:	Louis Giacommazi		
Telephone:	(559) 816-1364		
Facility:	C-259		
Project #:	C-1173456		
Deemed Complete:	February 12, 2018		

I. Summary

Central Valley Cooperative Inc. operated a cotton ginning facility in Hanford, CA. On December 11, 2017, the District received an application from the operator who surrendered the Permit to Operate, C-259-1-6 and -2-6 for the cotton gin and requested Emission Reduction Credits (ERCs) for VOC, NOx, CO, PM_{10}, SOx, and CO_2e. A copy of the surrendered Permit to Operate (PTO) is attached (Attachment A) and the permit has been cancelled. During the last season of operation in 2015, the facility processed 4,997 bales of cotton.

Based on the historical operating data prior to the shutdown, the amounts of bankable ERCs (as calculated in Section V of this document) are shown in the table below. The calculations in Section V are according to the provisions of District Rules 2201 and 2301.

Bankable Emissions Reductions Credits (ERCs)				
Pollutant	1st Qtr ERC (lb/qtr)	2nd Qtr ERC (lb/qtr)	3rd Qtr ERC (lb/qtr)	4th Qtr ERC (lb/qtr)
NOx	10	0	0	85
SOx	0	0	0	0
PM_{10}	1,206	0	0	9,721
CO	2	0	0	17
VOC	1	0	0	4

The District is also proposing to issue the Greenhouse Gas (GHG) ERCs for carbon dioxide equivalent (CO_2e). The amount of bankable CO_2e emissions, shown in the table below, are calculated in Section V of this document according to the provisions of District Rules 2201 and 2301.

Bankable GHG Emissions	
Pollutant	ERC (metric tons/year)
CO_2e	56

II. Applicable Rules

Rule 2301 - Emission Reduction Credit Banking (Last amended 1/19/12)

III. Location of Reductions

Physical location of equipment: 9845 Hanford-Armona Rd in Hanford, Kings County, CA.

IV. Method of Generating Reductions

The AER's were generated by the shutting down a cotton gin. The equipment description for the units are as follows:

C-259-1-6: COTTON GIN (#1 EAST SIDE) WITH 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 3 MMBTU/HR LINT CLEANER DRYER #3 FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -2), BATTERY CONDENSER, SEED STORAGE SHELTER WITH TWO BLOWERS FOR SEED AERATION AND PNEUMATIC SEED TRANSPORTATION

C-259-2-6: COTTON GIN (#2 WEST SIDE) WITH 3 CONTINENTAL SAW GIN STANDS, 6 LINT CLEANERS AND CONDENSERS, 3 MMBTU/HR PRECLEANER DRYER #1, 3 MMBTU/HR CLEANER DRYER #2 AND ONE 1 MMBTU/HR LINT CLEANER DRYER #3, FIRED ON NATURAL GAS OR PROPANE, MOTE SYSTEM (SHARED WITH -1), BATTERY CONDENSER, TRASH SYSTEM AND MODULE FEEDER

The gin was limited by permit condition to a ginning rate of not to exceed 720 bales per day for saw gin operation #1 and not to exceed 720 bales per day for saw gin operation #2. PTOs C-259-1-6 and C-259-2-6 were surrendered on December 11, 2017.

V. Calculations

A. Assumptions

Particulate Emissions from Ginning Operation:

- Annual criteria pollutant emissions are rounded to the nearest pound and annual GHG emissions are rounded to the nearest metric ton (District practice).
- Ginning rate not to exceed 720 bales, corrected to 500 lb-bales (permit limit).
- Based on applicant information for the operating seasons prior to the shutdown (from 2011 to 2015), shown below, the typical operating schedule is 24 hours per day, 54

days average per year in the fourth quarter, and 7 days average per year in the first quarter.

- $PM_{2.5}$ fraction (% of the PM_{10} that is also $PM_{2.5}$) = 1.9% (Attachment F).

Cotton Gin Operating Dates					
Season	2011	2012	2013	2014	2015
Start date	Oct 18, 2011	Oct 18,2012	Oct 1, 2013	Oct 14, 2014	Oct 12, 2015
End date	Jan 17, 2012	Jan 17, 2013	Nov 16, 2013	Dec 9, 2014	Dec 1, 2015
4th Quarter days	60	60	46	56	50
1st Quarter days	17	17	0	0	0
No of Bales	17,847	17,293	10,941	8,095	4,997

Natural Gas Combustion from Cotton Dryers:

- The cotton gins included one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. All burners were fired on natural gas.
- The GHG emission factor for fuel combustion includes emissions of CO_2, CH_4, and N_2O
- Conversion: 1,000 kg = 1 metric ton.
- Conversion: 1 MMBtu = 10 therm.

The applicant provided production and fuel usage records for the last ten years. In instances where the applicant-provided production rate or fuel quantity does not match the emissions inventory submitted for that year, the most conservative (lowest) values will be used in calculations. The following table shows the most conservative (lowest) cotton production and fuel usage data from either the applicant or the emission inventory.

Production and Fuel Use Data		
Year	Total Production (Bales)	Natural Gas Used (Therms)
2006	25,766	--
2007	16,172	--
2008	10,508	--
2009	11,629	--
2010	15,536	--
2011	17,847	--
2012	17,293	13,740
2013	10,941	7,348
2014	8,095	4,934
2015	4,997	1,548
Average	**13,878**	**6,893**

B. Emission Factors (EF)

Cotton Ginning Emissions

The PTO allowed the operation of two saw-type cotton gins and included emission limits for for both operations. The overall emission limit on the PTO for saw-type gin #1 operation was

1.02 lb-PM_{10}/bale (see Attachment A, permit condition # 8) and the overall emission limit for saw-type gin #2 operation was 0.92 lb-PM_{10}/bale (see Attachment A, permit condition # 8).

District Policy APR 1110 *Use of Revised Generally Accepted Emission Factors* establishes "criteria for the use of emission factors and to address New Source Review (NSR) and Emission Reduction Credits (ERCs) issues when using revised Generally Accepted Emission Factors". Basically, the policy directs the use of emission factors (EF) that reflect "best data" when estimating emissions. For example, where facility-specific Continuous Emissions Monitoring or source test data is available, it will be used (unless it is in violation of permit conditions or other requirements).

There are no source test results for operation of the saw-gin equipment. For equipment where there are no facility-specific source test data, the most accurate EF information is data from the California Cotton Ginners Association Handbook (CCGAH) which is based on a compilation of EFs from source tests on Valley cotton gins.

The source test results and the EFs from the CCGAH and the PTO are shown in the following table for saw-type cotton gins. The following table also summarizes the best emission factor for use in calculations. Note that no emission factor that is higher than the permit limit will be used for calculating emissions for the operations.

Saw Gin

Comparison of 2010 CCGAH Emission Factors and the Permitted Emissions Factors Saw Gin

System	Cyclone Design	Source Test Result (lb-PM_{10}/bale)	CCGAH EFs (lb-PM_{10}/bale)	EF Used for Calculations (lb-PM_{10}/bale)
Unloading	1D-3D	No Data	0.11	0.11
#1 Pre-cleaner	1D-3D	No Data	0.11	0.11
#2 Pre-cleaner	1D-3D	No Data	0.09	0.09
Overflow	1D-3D	No Data	0.04	0.04
Feeder Dust System	1D-3D	No Data	0.08	0.08
Gin Stand / Feeder Trash System	1D-3D	No Data	0.08	0.08
Lint Cleaning	1D-3D	No Data	0.09	0.09
Battery Condenser	1D-3D	No Data	0.03	0.03
Lint Trash / Robber	1D-3D	No Data	0.06	0.06
Motes	1D-3D	No Data	0.07	0.07
Motes Transfer	1D-3D	No Data	0.07	0.07
Motes Cleaner Trash	1D-3D	No Data	0.03	0.03
Total		No Data	0.86	0.86

As shown above, the total emissions factor for the saw gin operation is 0.86 lb-PM_{10}/bale based on the use of the best data in the CCGAH.

Summary of Total EFs for Saw Gin

The following table summarizes the emission factors for the saw gin for use in calculations.

Determine EF for Calculations	
	Total EF, lb-PM_{10}/ton
Saw Gin	0.86

Natural Gas Combustion:

The cotton gin included burners that provided heated air to control the moisture content of the cotton. These burners were fired on natural gas and ERCs are requested from their shutdown. The PTO indicates natural gas combustion emission factors, so the EFs from the permit shall be used.

Burner Emission Factors		
Operation	Emission Rate	Source
Natural Gas combustion in the heater	0.1 lb-NO_x/MMBtu	PTO
	0.0003 lb-SO_x/MMBtu	PTO
	0[2]	AP-42, Table 1.5-1 (10/96)
	0.02 lb-CO/MMBtu	PTO
	0.006 lb-VOC/MMBtu	PTO

[2] Since combustion emissions from the dryers are discharged through the cyclones, the dryer PM_{10} emissions are included with the ginning cyclone emission factors.

For combustion sources, GHGs include the following three "well-mixed" compounds: carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). The following greenhouse gas (GHG) EFs are from 40 CFR Part 98, Subpart C, Tables C-1 and C-2:

Greenhouse Gas Emission Factors for Natural Gas		
GHG	EF, kg/MMBtu	EF, lb/MMBtu
CO_2	53.06	116.98
CH_4	0.001	0.0022
N_2O	0.0001	0.0002

Carbon dioxide equivalents (CO_2e) are determined by multiplying the mass emission factor by the Global Warming Potential (GWP) for the GHG pollutant. The following GWPs are from District Rule 2301 (*Emission Reduction Credit Banking*):

GHG GWP	
GHG	GWP, lb-CO_2e/lb-GHG
CO_2	1
CH_4	21
N_2O	310

An overall CO_2e emission factor is determined by combining the GHG EFs with the GWP for the respective pollutant as follows:

CO_2e EF = (116.98 lb-CO_2/MMBtu x 1 lb-CO_2e/lb-CO_2) + (0.0022 lb-CH_4/MMBtu × 21 lb-CO_2e/lb-CH_4) + (0.0002 lb-N_2O/MMBtu × 310 lb-CO_2e/lb-N_2O)
= 117.09 lb-CO_2e/MMBtu
= 117.09 lb-CO_2e/MMBtu × kg/2.2046 lb × metric ton/1,000 kg
= 0.0531 metric tons-CO_2e/MMBtu

C. Baseline Period Determination and Data

Baseline Period Determination

In accordance with District Rule 2201, Section 3.8, the baseline period is the two consecutive years of operation immediately prior to the submission of the complete application, or another period of at least two consecutive years within the five years immediately prior to the submission of the complete application, if it is more representative of normal source operations.

The PTO for the cotton ginning operation was surrendered by the facility on December 11, 2017, and the application to bank the ERCs from the shutdown of the operation was received on December 11, 2017. The applicant provided Ginning Summary records from the Visalia Classing Office of the United States Department of Agriculture (USDA), Agricultural Marketing Service, Cotton Program (see Appendix C this document) that show the last production season ended in 2015 (December 1, 2015 was the end of the last production season for this site per the applicant's records).

Since cotton ginning is a seasonal operation, as shown previously in Section V.A of this document in the table "Cotton Gin Operation Dates", the periods in between operating seasons cannot be used to determine normal source operation. Therefore, the period from October 2011 through the end of 2015 will be used as the five year period of normal operation from which the baseline period will be determined.

Baseline Period Determination Data

The ginning operations were seasonal with the actual annual throughput depending on the size of the cotton harvest. Because the harvest can vary significantly from year to year, a ten-year average is used in this evaluation to determine the normal source operation (NSO). Cotton throughput and natural gas usage was provided by the operator or gathered from the emissions inventories submitted by the facility for the specific year, whichever is more conservative (as previously discussed). The appropriate cotton throughput and fuel usage values are shown in the table below.

The difference between the two-year average and NSO is calculated using the following formula:

Difference = [(Year 1 Rate + Year 2 Rate) ÷ 2] – (5-year Average Rate)

An example calculation of the difference (absolute value) is shown below for the 2011 and 2012 period.

Difference = [(17,847 bales + 17,293 bales) ÷ 2] – 11,835 bales
= 17,570 bales – 11,835 bales
= 5,735 bales/year

The calculation is repeated in the following table for cotton production and fuel usage for each two-year period in the five year period from 2011 to 2015. Note that, as previously discussed in Section V.A, production records for the past 10 years are shown for the purpose of determining the normal source operation (NSO).

Historical Production and Fuel Use Data				
Year	Throughput (bales/year)	Fuel Used (therms/year)	Difference between two-year average and NSO (bales/year)	Difference between two-year average and NSO (therms/year)
2006	25,766	--		
2007	16,172	--		
2008	10,508	--		
2009	11,629	--		
2010	15,536	--		
2011	17,847	--		
			5,735	1,356
2012	17,293	13,740		
			2,282	5,030
2013	10,941	7,348		
			-2,317	629
2014	8,095	4,934		
			-5,289	-2,273
2015	4,997	1,548		
10-year Average	13,878	5,514		

For the five years immediately preceding the shutdown (2011-2015), the period matching the normal source operation (NSO) ten-year average is 2012-2013. Therefore, the baseline period is 2012-2013.

- During the baseline period of 2012-2013, the facility was operated in the fourth and first quarters.
- The average annual cotton throughput during the baseline period of 2012-2013 was 14,117 bales [(17,293 + 10,941) ÷ 2]
- The calcualted average throughput for the baseline period of 2012-2013 resulted in PM_{10} emissions that were less than the annual limit for PM_{10} emissions. The following calculations demonstrate that the permitted emissions limits were not exceeded. For the purpose of this demonstration, the following calculations show the annual emissions using the emission limits from the PTO.

Saw gin emissions, lb/year = 0.86 lb-PM_{10}/bale × 14,117 bales/year
= 12,141 lb-PM_{10}/year < 65,127 lb-PM_{10}/year (PTO conditions #7 & 8)

- The average annual Natural Gas consumption during the baseline period of 2012-2013 was 10,544 therms [(13,740 + 7,348) ÷ 2].
- Natural Gas consumption was not limited by a permit condition (either a daily or annual limit).

D. Historical Actual Emission (HAE) Calculations

The Historical Actual Emissions (HAE) are calculated using the following formulas and the emission factors and throughputs as discussed above. Results are shown in the following tables:

Cotton Ginning HAE – Saw Gin Operation

$HAE_{saw\ ginning}$ = EF, lb/bale × 14,117 bales/year

Historical Actual Emissions ($HAE_{saw\ ginning}$)			
Pollutant	EF (lb-PM_{10}/bale)	Throughput (bales/year)	HAE lb/year
PM_{10}	0.86	14,117	12,141

Natural Gas Combustion HAE

HAE_{NG} = EF, lb/MMBtu × 0.1 MMBtu/therm × 10,544 therm/year

Historical Actual Emissions (HAE_{LPG})				
Pollutant	EF lb/MMBtu	Throughput therm/year	Conversion MMBtu/therm	HAE lb/year
NO_x	0.1	10,544	0.1	105
SO_x	0.0003	10,544	0.1	0
PM_{10}	0	10,544	0.1	0
CO	0.02	10,544	0.1	21
VOC	0.006	10,544	0.1	6

Greenhouse Gases (GHG) HAE

HAE_{GHG} = EF, lb/MMBtu × 0.094 MMBtu/therm × 102,634 therm/year

Historical Actual Emissions (HAE_{GHG})				
Pollutant	EF metric tons-CO_2e/MMBtu	Throughput therm/year	Conversion MMBtu/therm	HAE metric tons-CO_2e/year
CO_2e	0.0531	10,544	0.1	56

E. Adjustment to Historical Actual Emissions (HAE)

Emissions Adjusted for Rule 4204 - Cotton Gins

Rule 4204 (Cotton Gins) requires cotton gins to use 1D-3D cyclones, with emissions equivalent to the emission factors from the latest revision of the CCGA handbook, by July 1, 2008. Pursuant to Section 3.22 of Rule 2201, Historical Actual Emissions must be discounted for any emissions reduction which is: required or encumbered by any laws, rules, regulations, agreements, orders, or, proposed in the District Air Quality Plan for attaining the annual reductions required by the California Clean Air Act. The cotton gin was in compliance with this rule at the time of the ERC application submittal. All the cotton gin's systems were controlled by 1D-3D cyclones. Therefore, no adjustments are needed for these systems.

Emissions Adjusted for Rule 4309 - Dryers, Dehydrators, and Ovens

District Rule 4309 (Dryers, Dehydrators, and Ovens), Section 4.1.6 specifically exempts units used to dry lint cotton or cotton at cotton gins. The dryers at this facility are used to dry cotton; therefore, the dryers in this operation are exempt from requirements of this rule and no adjustment is necessary.

Total Adjusted Historical Actual Emissions (HAE)

The total adjustment is equal to the sum of the adjusted parts. There were no adjustments made to the Historical Actual Emissions for NO_X, SO_X, PM_{10}, CO, or VOC. Therefore the HAE will be equal to the values calculated in Section V.C of this evaluation.

F. Post Project Potential to Emit (PE2)

As discussed above, the subject equipment has been permanently shut down and the PTO was surrendered to the District. Therefore, the PE2 = 0 for all emissions.

G. Air Quality Improvement Deduction

The air quality improvement deduction (AQID), per Rule 2201, Section 3.6, is 10% of the Actual Emission Reductions (AER), before the AER is eligible for banking. The criteria pollutant AER are adjusted for the AQID in the following table:

$$AQID = AER \times 10\%$$

AER Calculations		
Pollutant	AER lb/year	AQID lb/year
NO_x	105	10
SO_x	0	0
PM_{10}	12,141	1,214
CO	21	2
VOC	6	1
Pollutant	HAE metric ton/year	AQID metric ton/year
CO_2e	56	0[1]

[1] The AQID requirement is part of Rule 2201 and therefore only applies to criteria pollutants that are governed by that rule. Calculations for GHG emission reductions are detailed in Rule 2301, Section 4.5, which does not include a provision for an AQID.

H. Emission Reductions Eligible for Banking

As shown previously in Section V.A of this evaluation, for the 2012 and 2013 operating seasons, the facility operated for 76 days in the 4th quarter 2012 and 15 days in the 1st quarter 2013 and 41 days in the 4th quarter 2013 and 0 days in the 1st quarter 2014. Since there were actual emissions in the 1st and 4th quarters of the baseline period, the AER will be split between the two operating quarters. Since the facility does not have operating records of bales and fuel used per quarter, the following formula will be used to determine the quantity of 1st quarter AER as a percentage of the total AER. Calculations are shown in the table below.

1st Qtr AER = (# of 1st Qtr Days ÷ Total # of days) × 100

Determine 1st Quarter % of Total Operation			
Operating Year	1st Qtr Days	Total Days	% Operation of Total in the 1st Qtr
2012	17	77	22.08
2013	0	46	0.00
Average	8.5	61.5	11.04

As calculated in the table above, 11.04% of the bankable AER will be distributed to the first quarter and the remaining 88.96% (100% - 11.04% = 88.96%) will be distributed to the fourth quarter. The bankable ERCs for criteria pollutants are presented in lb/quarter in the following tables while the bankable ERCs for GHG are expressed in metric-tons/year.

First Quarter (Criteria Pollutants)

Bankable AER 1st Quarter				
Pollutant	AER lb/year	AQID lb/year	1st Qtr Operation %	Bankable AER 1st Qtr lb/quarter
NO_x	105	10	11.04	10
SO_x	0	0	11.04	0
PM_{10}	12,141	1,214	11.04	1,206
CO	21	2	11.04	2
VOC	6	1	11.04	1

Fourth Quarter (Criteria Pollutants)

Bankable ERCs 4th Quarter				
Pollutant	AER lb/year	AQID lb/year	4th Qtr Operation %	Bankable AER 4th Qtr lb/quarter
NO_x	105	10	88.96	85
SO_x	0	0	88.96	0
PM_{10}	12,141	1,214	88.96	9,721
CO	21	2	88.96	17
VOC	6	1	88.96	4

Greenhouse Gases

Bankable GHG AER		
Pollutant	AER metric tons/year	Bankable AER metric tons/year
CO_2e	56	56

VI. Compliance

Rule 2301 - Emission Reduction Credit Banking

Section 4.0 - Eligibility of Emission Reductions

Section 4.2, specifies the criteria by which emission reductions, that have occurred after September 19, 1991, are eligible for banking. The emission reductions in this project occurred when the PTO for the cotton ginning equipment was surrendered, effective December 11, 2017. As these emission reductions occurred after September 19, 1991, the criteria in Section 4.2 must been satisfied.

Section 4.2.1 requires that the emission reductions are real, surplus, permanent, quantifiable, and enforceable. The following is a discussion of compliance with Section 4.2.1 requirements for criteria pollutant emissions.

Criteria Pollutant Emissions

Emission Reductions are Real

The emission reductions were generated by the shutdown of cotton gins consisting of one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. The real emissions were calculated from actual historic production throughput and fuel-use data and recognized emission factors. The ginning equipment has been removed from service and the permit was subsequently surrendered to the District. Therefore, the emission reductions satisfy the real requirement.

Emission Reductions are Surplus

There are no laws, rules, regulations, agreements, orders, or permits requiring any of the emission reductions which generated the ERC:

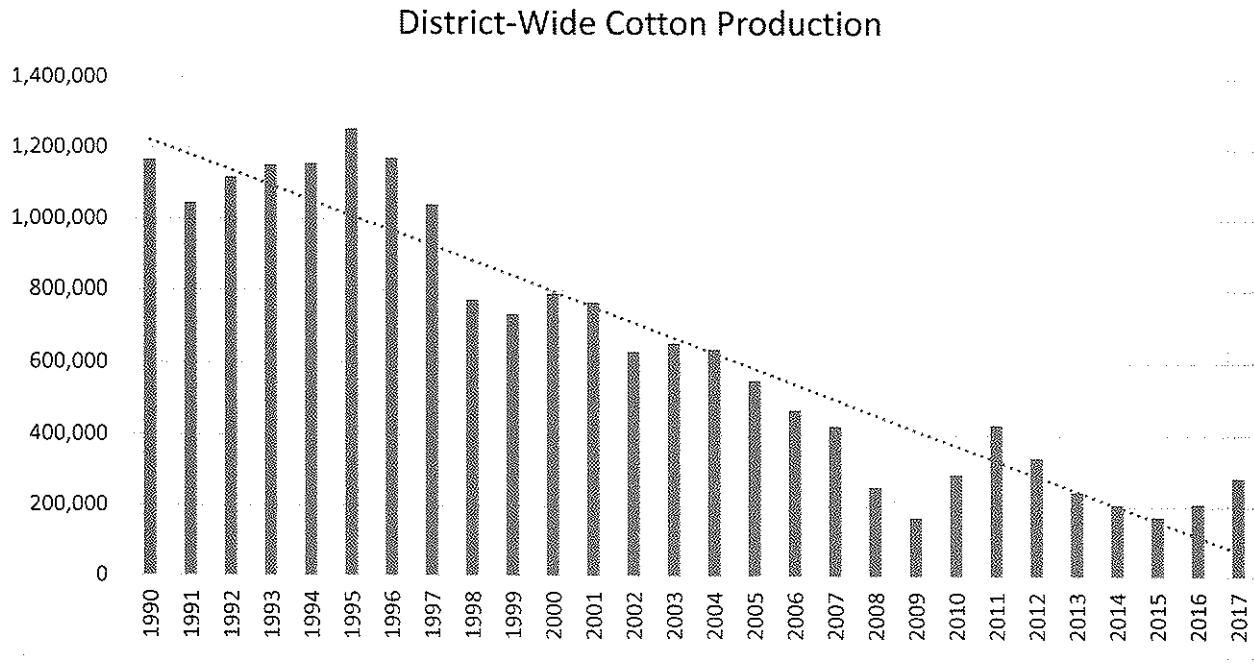
- Shutdown of the gin was voluntary and not required by any law, rule, agreement, or regulation.
- These ERCs are not needed for their current or proposed operations.
- The emission factors are not subject to additional adjustments and are therefore surplus to the requirements of the District's 2007 PM_{10} Maintenance Plan, 2008, 2012, 2015, and 2016 $PM_{2.5}$ Attainment Plans, and District Rule 4204.
- According to the attached records, the gin did not exceed the permitted baling rates and there were no limits on natural gas consumption, so no adjustments are necessary on that basis.
- There are no laws, rules, regulations, agreements, orders, or permits requiring any GHG emission reductions from cotton ginning operations.
- The emission reductions are not the result of an action taken by the permittee to comply with any requirement of Rule 4204 Cotton Gins.

Therefore, the emission reductions satisfy the surplus requirement.

Emission Reductions are Permanent

The gin has been shut down and the PTO has been surrendered. Further operation requires an application to the District for a new operating permit.

Due to the high transportation costs, it is not cost effective to ship field cotton to other locations for processing. As such, the cotton processed at this facility was produced in the surrounding area. As shown in the following table, cotton acreage in the District dropped significantly in the last 28 years. According to the applicant, this decline in cotton production led the closure of this facility. Because of the decline in cotton production, it is expected that there will be no shifting of the past emissions to a similar facility. Therefore, the emission reductions satisfy the surplus requirement.



Cotton acreage as reported by the California Cotton Ginners Association.

Emission Reductions are Quantifiable

Actual Emission Reductions (AER) amounts were calculated from historic process throughput data, source test results from similar operations, California Cotton Ginners Association emission factors, and methods according to District Rule 2201. Therefore, the reductions are quantifiable. Therefore, the emission reductions satisfy the quantifiable requirement.

Emission Reductions are Enforceable

The PTO for this facility has been surrendered and the gins cannot be operated without a valid PTO. Due to the size and complexity of the operation, the large bulk of the material processed, and the amount of lint, seeds, and waste material generated, it would be readily apparent if it were to be operated in the future. Therefore, the emission reductions satisfy the enforceable requirement.

Section 4.2.2 requires that AER be calculated in accordance with the procedure in Rule 2201 (New and Modified Stationary Source Review Rule), including any adjustments for use of Community Bank offsets. As detailed in Section V - Calculations, the AER were calculated according to the procedure in Rule 2201 and the past permitting of the facility did not include Community Bank ERC. Therefore, the emission reductions satisfy the requirements of this section.

Section 4.2.3 requires that an application be filed no later than 180 days after the reduction occurred. The ERC banking application was filed on December 11, 2017, and the PTO was surrendered on December 11, 2017. According to District Policy APR 1805, the date of the shutdown is considered to be the date on which the PTO is surrendered, unless the equipment was removed or the District determines the owner did not intend to operate again.

Since the District has no evidence that either of these were the case, the gin is considered to be operational at time of permit surrender. The application is considered timely and the requirement of this section is satisfied.

Section 4.2.4 applies to emissions from non-permitted units. The gin was permitted so this section is not applicable.

Section 4.3 applies to banking offsets which were provided for cancelled Authorities to Construct. These emissions were not previously banked so this section is not applicable.

Section 4.4 refers to source categories which are not eligible for ERC. The categories do not include gin shutdowns, so this section is not applicable.

Section 4.5 details criteria for determining eligibility of Green House Gas (GHG) emissions for banking. The applicant has requested to bank the GHG AER so this section is applicable.

Section 4.5.1 requires that the GHG emission reductions must have occurred after January 1, 2005. As stated above, the gin was shutdown effective December 11, 2017, so the GHG emission reductions satisfy the requirements of this section.

Section 4.5.2 requires that the reductions must have occurred within the San Joaquin Valley Air Pollution Control District. The emissions occurred at 19813 Madison Ave in Stratford, CA. This location is in Kings County located within the San Joaquin Valley Air Pollution Control District boundaries. Therefore, the GHG emission reductions satisfy the location requirement of this section.

Section 4.5.3 requires that the GHG emission reductions must be real, surplus, permanent, quantifiable, and enforceable. The following is a discussion of compliance with Section 4.5.3 requirements for greenhouse gas emissions

GHG Emissions:

Emission Reductions are Real

The GHG emission reductions were generated by the shutdown of cotton gins consisting of one 1 MMBtu/hr burner and five 3.0 MMBtu/hr burners for a total maximum input heat rating of 16 MMBtu/hr. The GHG emissions were calculated from actual historic production throughput and fuel-use data and recognized GHG emission factors. The ginning equipment has been removed from service and the permit was subsequently surrendered to the District. Therefore, the GHG emission reductions satisfy the real requirement.

Emission Reductions are Surplus

There are no laws, rules, regulations, agreements, orders, or permits requiring any of the GHG emission reductions which generated the ERC:

- The shutdown of the gin was voluntary and not required by any law, rule, agreement, or regulation.

- These GHG ERCs are not needed for their current or proposed operations.
- The GHG emission factors are not subject to additional adjustments and are therefore surplus to the requirements of the District's 2007 PM_{10} Maintenance Plan, 2008, 2012, 2015, and 2016 $PM_{2.5}$ Attainment Plans, and District Rule 4204.
- According to the attached records, the gin did not exceed the permitted baling rates and there were no limits on LPG consumption, so no adjustments are necessary on that basis.
- The facility is not in one of the categories subject to CARB GHG cap and trade regulations and there are no other laws, rules, regulations, agreements, orders, or permits requiring any GHG emission reductions from cotton ginning operations.
- The GHG emission reductions are not the result of an action taken by the permittee to comply with any requirement of Rule 4204 Cotton Gins.

Therefore, the GHG emission reductions satisfy the surplus requirement.

Emission Reductions are Permanent

The gin has been shut down, and the PTO has been surrendered. Further operation requires an application to the District.

Due to the high transportation costs, it is not cost effective to ship field cotton to other locations for processing. As such, the cotton processed at this facility was produced in the surrounding area. As was shown in the earlier section, cotton acreage in Kings County dropped significantly in the last 10 years. According to the applicant, this decline in cotton production led the closure of this facility. Because of the decline in production, it is expected that there will be no shifting of the past GHG emissions to a similar facility. Therefore, the GHG emission reductions satisfy the permanent requirement.

Emission Reductions are Quantifiable

Actual Emission Reductions (AER) amounts were calculated from historic process throughput data, EPA and District emission factors, and methods according to District Rules. Therefore, the GHG emission reductions satisfy the quantifiable requirement.

Emission Reductions are Enforceable

The PTO for this facility has been surrendered and the gins cannot be operated without a valid PTO. Due to the size and complexity of the operation, the large bulk of the material processed, and the amount of lint, seeds, and waste material generated, it would be readily apparent if it were to be operated in the future. Therefore, the GHG emission reductions satisfy the enforceable requirement.

Section 4.5.4 requires that GHG emission reductions be calculated as the difference between the historic annual average GHG emissions (as CO_2e) and the PE2 after the reduction is complete. The historical GHG emissions must be calculated using the consecutive 24 month period immediately prior to the date the emission reductions occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as being more representative of normal operations.

The GHG emission reductions were calculated according to the baseline period identified above. Since this is a permanent shutdown of the cotton ginning operation and its associated equipment, with none of the load being shifted to any other cotton gin within the boundaries of the San Joaquin Valley Air Pollution Control District jurisdiction, there is no post-project potential to emit GHG.

Section 4.5.5 requires that GHG emission reductions be quantified using CARB-approved emission reduction project protocols. Since the GHG emission reductions are not subject to an applicable CARB-approved emission reduction project protocol, this section is not applicable.

Section 4.5.6 requires that ERCs shall be made enforceable through permit conditions or legally binding contract. The cotton gin operators held a legal District operating permit. That permit has been surrendered to the District. Since the operation of the equipment would require new ATCs, as discussed above, the GHG emission reduction is enforceable.

Section 5.0 - ERC Application Procedures

Section 5.5 of Rule 2301 states that ERC certificate applications for reductions shall be submitted within 180 days after the emission reduction occurs. The ERC banking application was filed and the PTO was surrendered on December 11, 2017, the and the operations at this location were permanently ceased effective December 11, 2017. Therefore, the application was submitted in a timely fashion.

Section 6.0 - Registration of ERC Certificates

The APCO may only grant an ERC Certificate after the emission reductions have actually occurred upon satisfaction of the following applicable provisions:

Section 6.14 GHG emission reductions shall be banked as metric tons of CO_2e per year, rounded to the nearest metric ton.

The draft GHG ERC is identified as metric tons of CO_2e per year, rounded to the nearest metric ton.

Section 6.15 specifies the registration requirements for GHG ERCs.

This emission reduction is surplus and additional of all requirements pursuant to Section 4.5.3.4. Therefore the ERC certificate shall include the following notation:

"This emission reduction is surplus and additional to all applicable regulatory requirements."

Compliance with Rule 2301 has been demonstrated and no adjustments are required under this rule.

VII. Recommendation

Pending a successful Public Noticing period, issue Emission Reduction Credit (ERC) certificate to Central Valley Cooperative Inc. in accordance with the amounts specified on the draft ERC certificates in Attachment E.

Attachments:

Attachment A: Surrendered PTO C-259-1-6 and -2-6
Attachment B: ERC Application
Attachment C: Cotton Ginning Throughput and natural gas Usage Records
Attachment D: GHG Emission Factors (40 CFR Part 98, Tables A-1, C-1 and C-2) and Global Warming Potentials (GWP) (Rule 2301, Table 1)
Attachment E: Draft ERC Certificates
Attachment F: $PM_{2.5}$ Fraction

Attachment A

Surrendered PTO C-259-1-6 and -2-6

Attachment B

ERC Application

Attachment C

Cotton Ginning Throughput and Natural Gas Usage Records

Attachment D

GHG Emission Factors (EFs) and Global Warming Potentials (GWP)

Attachment E

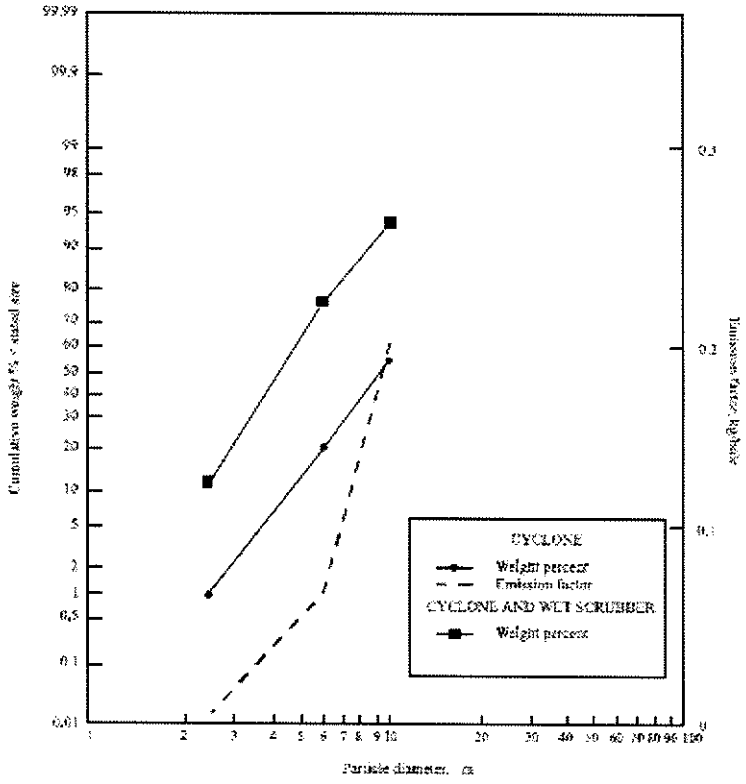
Draft ERC Certificates

Attachment F

$PM_{2.5}$ Fraction

$PM_{2.5}$ Fraction from EPA AP-42 Section 9.7 Appendix B-1

9.7 COTTON GINNING: LINT CLEANER AIR EXHAUST



Aerodynamic particle diameter, m	Cumulative wt. % ≤ stated size		Emission factor, kg/bale
	After cyclone	After cyclone & wet scrubber	Controlled with fabric filter
2.5	3	11	0.064
6.0	20	74	0.43
10.0	56	92	0.20

Lint cleaners are the largest source of emissions from the cotton ginning process. Therefore, the $PM_{2.5}$ fraction of the PM_{10} from lint cleaners is representative of the $PM_{2.5}$ fraction from the entire cotton gin. Based on the data in the chart above, the final $PM_{2.5}$ fraction is calculated to be:

$$PM_{2.5}Fraction = \frac{\frac{1\ lb\ PM_{2.5}}{lb\ PM}}{\frac{54\ lb\ PM_{10}}{lb\ PM}} x\ 100\% = 1.851 \rightarrow 1.9\% \frac{PM_{2.5}}{PM_{10}}$$

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

FEB 12 2018

Louis Giacomazzi
Central Valley Cooperative Inc
PO Box 1850
Hanford, CA 93232-1850

Re: Notice of Receipt of Complete Application - Emission Reduction Credits Banking
Facility Number: C-259
Project Number: C-1173456

Dear Mr. Giacomazzi:

The District has completed a preliminary review of your application for Emission Reduction Credits (ERCs) Banking resulting from the shutdown of the cotton gin at 9845 Hanford-Armona Rd, Hanford.

Based on this preliminary review, the application appears to be complete. However, during processing of your application, the District may request additional information to clarify, correct, or otherwise supplement, the information on file.

Pursuant to District Rule 3060, your application may be subject to an hourly Engineering Evaluation Fee. If the applicable fees exceed the submitted application filing fee, the District will notify you at the conclusion of our review.

Thank you for your cooperation. Should you have any questions, please contact Ms. Andrea Ogden at (559) 230-5886.

Sincerely,

Arnaud Marjollet
Director of Permit Services

Errol Villegas
Permit Services Manager

AM: ao

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

43166622

PUBLIC NOTICE CHECK LIST

PROJECT #: C-259 PROJECT #: C-1173456

REQST.	COMPL.	
√	—	ERC FINAL PUBLIC NOTICE
√	☒	Newspaper Notice Emailed to Clerical (Check box and tab to generate Notice)
√	✓	Send email to "OA-PublicNotices" containing the following: SUBJECT: facility name, facility id#, project #, type of notice (prelim/final) BODY: project description and why it is being noticed (Emission Reduction Credit banking)

ENCLOSED DOCUMENTS REQUIRE:

√	✓	Enter Correct Date, Print All Documents from File and Obtain Director's Signature and District Seal Embossed on ERC Certificates
√	✓	Email ***FINAL*** Newspaper Notice for Publication in Hanford Sentinel Pub Date: 10-24-18
√	—	~~Mail~~ ***FINAL*** Notice Letter ~~to~~ for Pick-up by Applicant by Certified Mail including the following attachments: √ Original ERC Certificates √ Newspaper Notice
√	✓	Email ***FINAL*** Public Notice package to EPA
√	✓	Email ***FINAL*** Public Notice package to CARB
√	✓	Email ***FINAL*** Newspaper Notice, Aviso en Español and Public Notice package to "webmaster"
√	—	After posted on website, send email with weblink of Newspaper notice, Aviso en Español, and full public notice package to: √ specific [C, S, or N] region **and** District wide permitting notification list-serves (both English and Spanish list serves) √ facility specific distribution list, (AQE – enter email address from PAS facility details notifications tab, if none enter NONE below): NONE
√	—	Mail the newspaper notice and aviso en español (NN/AE), or full public notice package (FPNP) to the persons on facility specific distribution list, as follows (entered by AQE, if none, enter NONE below): ☐NN/AE or ☐FPNP Name/address:NONE ☐NN/AE or ☐FPNP Name/address:NONE
√	✓	Send ***FINAL*** Public Notice package to EDMS
√	✓	Assign Mailing Date
—	—	Other Special Instructions (please specify): Applicant to pick-up final ERCs - please do NOT Mail.

Date Completed October 11, 2018/By Andrea Ogden

CALIFORNIA NEWSPAPER SERVICE BUREAU

DAILY JOURNAL CORPORATION

Mailing Address : 915 E FIRST ST, LOS ANGELES, CA 90012
Telephone (213) 229-5300 / Fax (213) 229-5481
Visit us @ WWW.LEGALADSTORE.COM

ARIANA OROZCO
SAN JOAQUIN VALLEY AIR POLL CONTROL DIST
1990 E. GETTYSBURG AVE.
FRESNO, CA 93726

CNS 3186932

COPY OF NOTICE

Notice Type: GPN GOVT PUBLIC NOTICE

Ad Description: Final Public Notice for Central Valley Cooperative, Inc, Project #C-1173456, Hanford

To the right is a copy of the notice you sent to us for publication in the THE HANFORD SENTINEL. Please read this notice carefully and call us with any corrections. The Proof of Publication will be filed with the County Clerk, if required, and mailed to you after the last date below. Publication date(s) for this notice is (are):

10/24/2018

The charge(s) for this order is as follows. An invoice will be sent after the last date of publication. If you prepaid this order in full, you will not receive an invoice.

NOTICE OF FINAL ACTION FOR THE ISSUANCE OF EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Central Valley Cooperative, Inc for emission reductions generated by the shut down of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs to be issued is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

No comments were received following the District's preliminary decision on this project.

The application review for Project # C-1173456 is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726, and at any other District office. For additional information, please contact the District at (559) 230-6000.

10/24/18
CNS-3186932#
THE HANFORD SENTINEL

* A 0 0 0 0 0 0 4 8 9 2 8 5 4 *

Ariana Orozco

From:	Ariana Orozco
Sent:	Friday, October 19, 2018 10:15 AM
To:	'SJV_T5_Permits@epamail.epa.gov'; 'ttle@arb.ca.gov'
Subject:	Final Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456
Attachments:	Final C-1173456.pdf; Newspaper C-1173456.pdf
Importance:	High

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Central Valley Cooperative, Inc for emission reductions generated by the shut down of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs to be issued is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

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www.healthyairliving.com
Make one change for clean air!

Ariana Orozco

From: postmaster@carb.onmicrosoft.com
To: ttle@arb.ca.gov
Sent: Friday, October 19, 2018 10:15 AM
Subject: Delivered: Final Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456

Your message has been delivered to the following recipients:

ttle@arb.ca.gov

Subject: Final Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456

Ariana Orozco

From:	Ariana Orozco
Sent:	Friday, October 19, 2018 10:15 AM
To:	WebTeam
Subject:	valleyair.org update: Final Public Notice for Central Valley Cooperative, Inc, Facility ID #C-259, Project #C-1173456
Attachments:	Final C-1173456.pdf; Newspaper C-1173456.pdf; Aviso C-1173456.pdf

October 19, 2018 (Facility C-259 Project C-1173456) NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Central Valley Cooperative, Inc for emission reductions generated by the shut down of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs to be issued is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

Newspaper Notice

Aviso

Public Notice Package

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

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www.healthyairliving.com

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Ariana Orozco

From: Ariana Orozco
Sent: Monday, October 22, 2018 1:35 PM
To: 'notices_of_permitting_actions-all_regions@lists.valleyair.org'; 'notices_of_permitting_actions-central_region@lists.valleyair.org'
Subject: Public Notice on Permitting Action C-1173456

The District has posted a new permitting public notice. The public notice can be viewed on our website at: http://www.valleyair.org/notices/Docs/2018/10-19-18_(C-1173456)/Newspaper.pdf

For a list of public notices and public notice packages, please visit our website at: http://www.valleyair.org/notices/public_notices_idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

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Ariana Orozco

From: Ariana Orozco
Sent: Monday, October 22, 2018 1:35 PM
To: 'Avisos_Sobre_Acciones_de_Permisos-Todos@lists02.valleyair.org'
Subject: Aviso Publico Sobre Acciones de Permisos C-1173456

El Distrito del Aire a publicado un nuevo aviso público de permiso. El aviso público se puede ver en nuestro sitio de web en: http://www.valleyair.org/notices/Docs/2018/10-19-18_(C-1173456)/Aviso.pdf

Para obtener una lista de avisos públicos y paquetes de avisos públicos, por favor visite nuestro sitio de web en: http://www.valleyair.org/notices/public_notices_idx.htm#PermittingandEmissionReductionCreditCertificateNotices

Gracias,

Ariana Orozco

Senior Office Assistant
San Joaquin Valley Air Pollution Control District
1990 E. Gettysburg Ave I Fresno CA I 93726 I 559-230-6036

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Aviso en Español for posting on Valleyair.org

AVISO DE DECISIÓN FINAL
PARA LA OTORGACIÓN DE
CERTIFICADOS DE REDUCCIÓN DE EMISIONES

POR EL PRESENTE SE NOTIFICA que el Oficial para el Control de la Contaminación del Aire a otorgado Certificados de Reducción de Emisiones (ERCs, por sus siglas en inglés) a Central Valley Cooperative, Inc por la reducción de emisiones generadas, en 9845 Hanford-Armona Rd, Hanford, CA. La cantidad de ERCs que serán otorgados son 95 lb-NOx/año, 0 lb-SOx/año, 10,927 lb-PM10/año, 19 lb-CO/año, 5 lb-VOC/año y 56 toneladas de CO2e/año.

No se recibieron comentarios acerca de este proyecto despues del aviso de decisión preliminar del Distrito.

La revisión de la solicitud del Proyecto # C-1173456 está disponible para la inspección del público en http://www.valleyair.org/notices/public_notices_idx.htm, el DISTRITO PARA EL CONTROL DE LA CONTAMINACIÓN DEL AIRE DEL VALLE DE SAN JOAQUIN, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726, y en cualquiera de las oficinas del Distrito. Para más información en Español, por favor comuníquese con el Distrito al (559) 230-6000.

NOTICE OF FINAL ACTION
FOR THE ISSUANCE OF
EMISSION REDUCTION CREDITS

NOTICE IS HEREBY GIVEN that the Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Central Valley Cooperative, Inc for emission reductions generated by the shut down of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs to be issued is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

No comments were received following the District's preliminary decision on this project.

The application review for Project # C-1173456 is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm, the SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT, 1990 EAST GETTYSBURG AVENUE, FRESNO, CA 93726, and at any other District office. For additional information, please contact the District at (559) 230-6000.

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

OCT 19 2018

Louis Giacomazzi
Central Valley Cooperative, Inc
9845 Hanford-Armona Rd
Hanford, CA 93230

RE: Notice of Final Action – Emission Reduction Credits
Facility Number: C-259
Project Number: C-1173456

Dear Mr. Giacomazzi:

The Air Pollution Control Officer has issued Emission Reduction Credits (ERCs) to Central Valley Cooperative, Inc for emission reductions generated by the shut down of the cotton gin, at 9845 Hanford-Armona Rd, Hanford, CA. The quantity of ERCs to be issued is 95 lb-NOx/yr, 0 lb-SOx/yr, 10,927 lb-PM10/yr, 19 lb-CO/yr, 5 lb-VOC/yr and 56 metric tons CO2e/yr.

Enclosed are the ERC Certificates and a copy of the notice of final action to be published approximately three days from the date of this letter.

Notice of the District's preliminary decision to issue the ERC Certificates was published on September 11, 2018. The District's analysis of the proposal was also sent to CARB and US EPA Region IX on September 4, 2018. No comments were received following the District's preliminary decision on this project.

Also enclosed is an invoice for the engineering evaluation fees pursuant to District Rule 3010. Please remit the amount owed, along with a copy of the attached invoice, within 60 days.

Samir Sheikh
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Errol Villegas at (559) 230-6000.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:ao

Enclosures

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

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate
C-1444-1

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: October 11, 2018

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For VOC Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1 lbs	None	None	4 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Oct 11 2018 11:10AM – OGDENA

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate
C-1444-2

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: October 11, 2018

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For NOx Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
10 lbs	None	None	85 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Oct 11 2018 11:10AM – OGDENA

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate
C-1444-3

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: October 11, 2018

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For CO Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
2 lbs	None	None	17 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Oct 11 2018 11:10AM – OGDENA

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate
C-1444-4

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: October 11, 2018

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For PM10 Reductions In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,206 lbs	None	None	9,721 lbs

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Samir Sheikh, Executive Director / APCO

Arnaud Marjollet, Director of Permit Services

Oct 11 2018 11:10AM – OGDENA

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

Central Regional Office • 1990 E. Gettysburg Ave. • Fresno, CA 93726

Emission Reduction Credit Certificate
C-1444-24

ISSUED TO: CENTRAL VALLEY COOPERATIVE INC

ISSUED DATE: October 11, 2018

LOCATION OF REDUCTION: 9845 HANFORD-ARMONA RD
HANFORD, CA 93230

For CO2E Reductions In The Amount Of:

56 metric tons / year

Method Of Reduction

[X] Shutdown of Entire Stationary Source
[ ] Shutdown of Emissions Units
[ ] Other

Shut Down of Cotton Gin

Emission Reduction Qualification Criteria

Samir Sheikh, Executive Director / APCO

P. Arnaud Marjollet

Arnaud Marjollet, Director of Permit Services

Oct 11 2018 11:10AM – OGDENA

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

Due Date	Amount Due
11/13/2018	$ 2,356.60

Amount Enclosed

ERCFEE C1173456
259 C282951 10/11/2018

RETURN THIS TOP PORTION ONLY, WITH REMITTANCE TO:

CENTRAL VALLEY COOPERATIVE INC
PO BOX 1850
HANFORD, CA 93230-1850

SJVAPCD
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244

Thank You!

San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

SJVAPCD Tax ID: 77-0262563

Facility ID	Invoice Date	Invoice Number
C259	10/11/2018	C282951

Invoice Type
Project: C1173456

CENTRAL VALLEY COOPERATIVE INC
9845 HANFORD-ARMONA RD
HANFORD, CA 93230

PROJECT NUMBER: 1173456

APPLICATION FILING FEES	$ 832.00
ENGINEERING TIME FEES	$ 2,356.60
TOTAL FEES	$ 3,188.60
LESS PREVIOUSLY PAID PROJECT FEES APPLIED TO THIS INVOICE	($ 832.00)
PROJECT FEES DUE (Enclosed is a detailed statement outlining the fees for each item.)	**$ 2,356.60**

San Joaquin Valley Air Pollution Control District

Invoice Detail

Facility ID: C259

CENTRAL VALLEY COOPERATIVE INC
9845 HANFORD-ARMONA RD
HANFORD, CA 93230

Invoice Nbr: C282951
Invoice Date: 10/11/2018
Page: 1

Application Filing Fees

Project Nbr	Permit Number	Description	Application Fee
C1173456	C-259-1173456-0	Emission Reduction Credit Banking Evaluation Fee	$ 832.00
		Total Application Filing Fees:	**$ 832.00**

Engineering Time Fees

Project Nbr	Quantity	Rate	Description	Fee
C1173456	29.8 hours	$ 107.00 /h	Standard Engineering Time	$ 3,188.60
			Less Credit For Application Filing Fees	($ 832.00)
			Standard Engineering Time SubTotal	$ 2,356.60
			Total Engineering Time Fees:	**$ 2,356.60**