


CENTRAL VALLEY NATURAL GAS STORAGE PROJECT	VARIANCE REQUEST FORM	
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Date Required:	Original Date: November 18, 2011	Variance Request No.:	No. 15 – Increase of Hazardous Material Stored at Compressor Station Site
Date Submitted:	Original Submittal: November 9, 2011 Resubmitted: February 8, 2012 with new variance number per CPUC request	Location:	Compressor station site located on McAusland Road
Property Owner(s):	Glassgow	Parcel No.:	012-110-095
Current Land Use:	Site is developed and supports the compressor station facility.	Sensitive Resources:	None.

Variance from: This variance requests the CPUC’s approval to increase the size of tanks and quantities of hazardous materials that will be stored at the compressor station. Table 5.8-2 in the IS/MND contains a list of hazardous materials that may be stored at the compressor station site. This table was based on the best available information at the time the IS/MND was prepared. The most current estimate of quantities required is different than what was originally estimated in the IS/MND. The tank sizes and associated maximum fill capacity are provided below in red and original IS/MND estimates from Table 5.8-2 are provided in black.

Material	Table 5.8-2 (IS/MND) Estimated Quantity Stored On-Site (gallons)	Tank Size (Maximum Fill Capacity) (gallons)
Clean tri-ethylene glycol	2,500	6,300 (5,600)
Used tri-ethylene glycol	2,500	6,300 (5,600)
Engine coolant	1,500	6,300 (5,600)
Engine lube oil	1,000	2,500 (2,500)
Compressor lube oil	1,000	2,500 (2,500)
Used lube oil	800	1,480 (1,200)
Condensate tank	Not Listed but shown in Figure 4-5	6,300 (5,600)
Lube oil transfer tank	Not Listed	450 (380)
Used engine coolant	Not Listed	6,300 (5,600)
Urea tank	Not Listed	6,500 (6,500)

Description and Justification for Variance: The engineers have recommended purchasing larger quantities of materials than originally estimated in the IS/MND.

Environmental Analysis: A brief description of the potential environmental effects associated with the increase in tank sizes is provided below.

Aesthetics. The increase in hazardous material quantities may require an increase in the size of some of the tanks. However, the visual impacts would be the same as those described in the IS/MND. No mitigation is required.

Agricultural and Forestry Resources. No impacts on agricultural or forestry resources are anticipated. No new mitigation has been identified.

Air Quality and GHG Emissions. The increase in hazardous waste material storage would not result in any new or greater impacts than were previously described in the MND. No new mitigation has been identified.

Biological Resources. No new impacts on biological resources would result from the increase in quantities of hazardous materials at the compressor station.

Cultural Resources. No impacts on cultural resources are anticipated and no mitigation has been identified.

Geology and Soils. The increase in hazardous material storage at the compressor station will not result in any effects related to geologic, soil, and seismic site conditions. No mitigation is required.

Hazards and Hazardous Materials. The increase in hazardous waste material storage is not anticipated to result in any new or greater impacts than were previously described in the MND. CVGS will implement the appropriate APMs and mitigation measures identified in the MND to avoid and minimize potential impacts, including APMs HAZ-1 and HAZ-2 and mitigation measure HAZ-3. No new mitigation has been identified.

Hydrology and Water Quality. The increase in hazardous material storage at the compressor station will not result in any effects on hydrology and water quality. No mitigation is required.

Land Use and Planning. No potentially significant impacts related to land use have been identified. No mitigation is required.

Mineral Resources. The increase in hazardous material storage at the compressor station will not have a significant effect on mineral and energy resources and would not result in the loss of the availability of the resources because none occur in the project area. No mitigation is required.

Noise. The increase in hazardous material storage at the compressor station will not result in any noise-related impacts. No mitigation is required.

Population and Housing. The increase in hazardous material storage at the compressor station would not result in any new or greater impacts than were previously described in the MND. No mitigation is required.

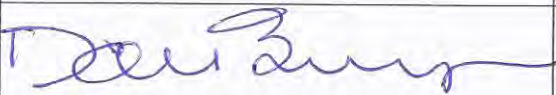

Public Services. The increase in hazardous material storage at the compressor station would not result in any new or greater impacts on public services than were discussed in the MND. No mitigation is required.

Recreation. The increase in hazardous material storage at the compressor station would not result in recreation impacts. No mitigation is required.

Transportation/Traffic. The increase in hazardous material storage at the compressor station would not result in transportation or traffic impacts. No mitigation is required.

Utilities and Service Systems. The increase in hazardous material storage at the compressor station would not require an expansion or improvement in utilities or service systems, including wastewater and water supply treatment or delivery. No mitigation is required.

Site Conditions/Comments: None.

Approvals	Date	Name (print)	Signature	Comments
CPUC Compliance Mgr				
Central Valley Construction Manager	2/8/12	Dirk de Bruyn		
Central Valley Environmental Manager	2/8/12	Susan Bushnell Bergfalk		None

Prepared by: Susan Bushnell Bergfalk, Environmental Manager, ICF International **Date:** February 8, 2012

Scott Eckardt

From: Bushnell-Bergfalk, Susan <SBushnell-Bergfalk@icfi.com>
Sent: Tuesday, January 17, 2012 12:24 PM
To: Scott Eckardt
Cc: 'Chiang, Eric'; James Kiefer; John Boehme; David Hochart
Subject: RE: Variance Request #14 for Increase in Tank Sizes - CVGS Responses

Hi Scott –

Please see responses below to each of your questions/clarifications.

Sue

From: Scott Eckardt [<mailto:seckardt@dudek.com>]
Sent: Wednesday, November 16, 2011 12:23 PM
To: Bushnell-Bergfalk, Susan; David Hochart
Cc: 'Chiang, Eric'; Jim Kiefer; John Boehme; RSchneg@NICOR.COM
Subject: RE: Variance Request #14 for Increase in Tank Sizes

Hi Sue,

The CPUC has completed a review of Variance Request #14 and has determined the following data is required to complete a review of the variance request:

- 1) Please provide the dimensions and precise location of the tanks that will be constructed onsite. The description should include the materials and coloring of the tanks.

CVGS Response:

- o Tank dimensions are in the following response.
 - o Tanks are located [on the drawing attached.] Tanks location was modified at the request of operations personnel. Delivery of liquids at the original tank location would have potentially blocked access to the facility during the delivery. The new location is located on an internal plant loop, and does not have the potential of blocking traffic. Further, the proposed tank location is substantially behind buildings, and visibility off site will be limited.
 - o Tank construction will be carbon steel, all welded.
 - o Tank color will be similar to all pipe and buildings, which is a earth tone shade.
- 2) Please clarify whether the tanks will be single-walled or double-walled. In the event single-walled tanks are proposed, please provide the dimensions and footprint of the containment area.

CVGS Response: All tanks will be double walled tanks. Footprint of the containment area is applicable to single wall tanks with containment, so that does not apply. Dimensions are as follows:

<u>Tank</u>	<u>Proposed Volume, Gallons</u>	<u>PEA Content</u>	<u>Diameter. Ft.</u>	<u>Height, Ft.</u>	<u>Service</u>
1	5600	2500	9.5	12	Clean Tri-ethylene glycol

2	5600	2500	9.5	12	Used Tri-ethylene glycol
3	5600	1500	9.5	12	Clean engine coolant
4	5600	NA	9.5	12	Used engine coolant
5	1200	800	6	7	Used oil
6	2500	1000	7	10	Clean compressor oil
7	2500	1000	7	10	Clean engine oil
	5600	1000	9.5	12	Water Accumulation (Condensate)
	995	1000			Methanol

3) Please identify the approximate number of increased truck trips that would result based on the increase in hazardous materials stored onsite.

CVGS Response: Increasing tank sizes will allow a greater interval between re-stocking. This will have a net result in reducing the number of liquid deliveries on an annual basis. For example if the CVGS facility uses 1,000 gallons of compressor lubricating oil per quarter, the delivery requirement and associated truck traffic will drop from once per quarter, to once per 5 or 6 quarters. Along with reduced truck traffic, there will be a reduction in emissions, noise, and also operating cost.

4) Please clarify whether the Operation Safety and Emergency Response Plan will be revised to include the increased storage of hazardous materials onsite.

CVGS Response: Yes, the plan is being revised and will be provided to the CPUC.

5) Please indicate whether Colusa County has been informed of the increased tank size. In the event Colusa County will issue a permit for the construction of the tanks, please indicate the permit conditions that have been included.

CVGS Response: Colusa County has been informed of the size increase on tanks. No special permit conditions were included.

6) Please provide an overview as to whether the local Fire District has been informed of the increase in storage of hazardous materials onsite from those originally proposed at the time the FMND was adopted by the CPUC.

CVGS Response: Colusa County Building and Planning has retained the use of an outside consultant familiar with fire plan reviews. CVGS has submitted full tank sizes to the Colusa County fire consultant.

Scott

From: Bushnell-Bergfalk, Susan [<mailto:SBushnell-Bergfalk@icfi.com>]
Sent: Friday, November 11, 2011 10:12 AM

To: David Hochart; Scott Eckardt
Cc: 'Chiang, Eric'; Jim Kiefer; John Boehme; RSchneq@NICOR.COM
Subject: Variance Request #14 for Increase in Tank Sizes

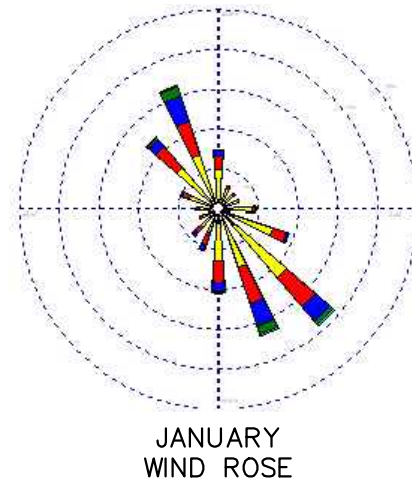
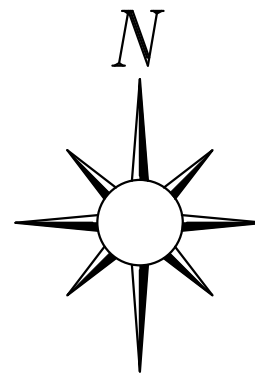
David and Scott –

This is the last of the variances CVGS has identified for the project. Please review and let us know if you have any questions.

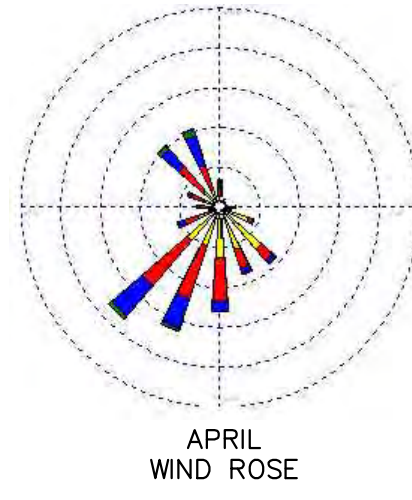
Thanks, Sue

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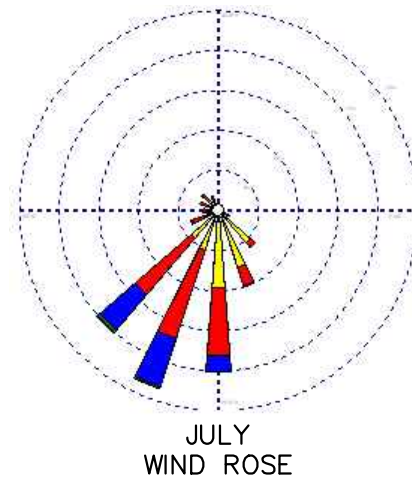
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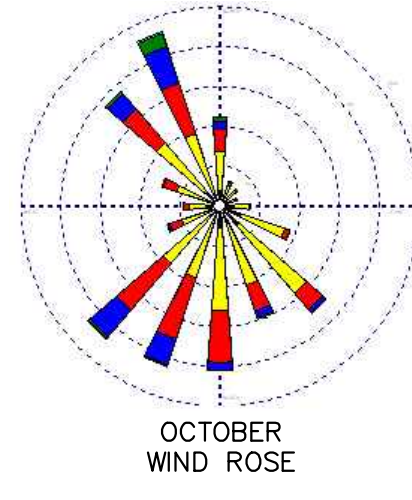
JANUARY WIND ROSE



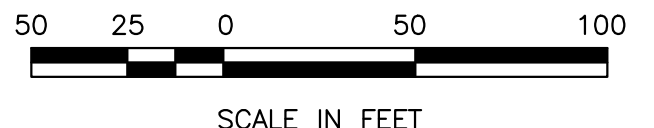
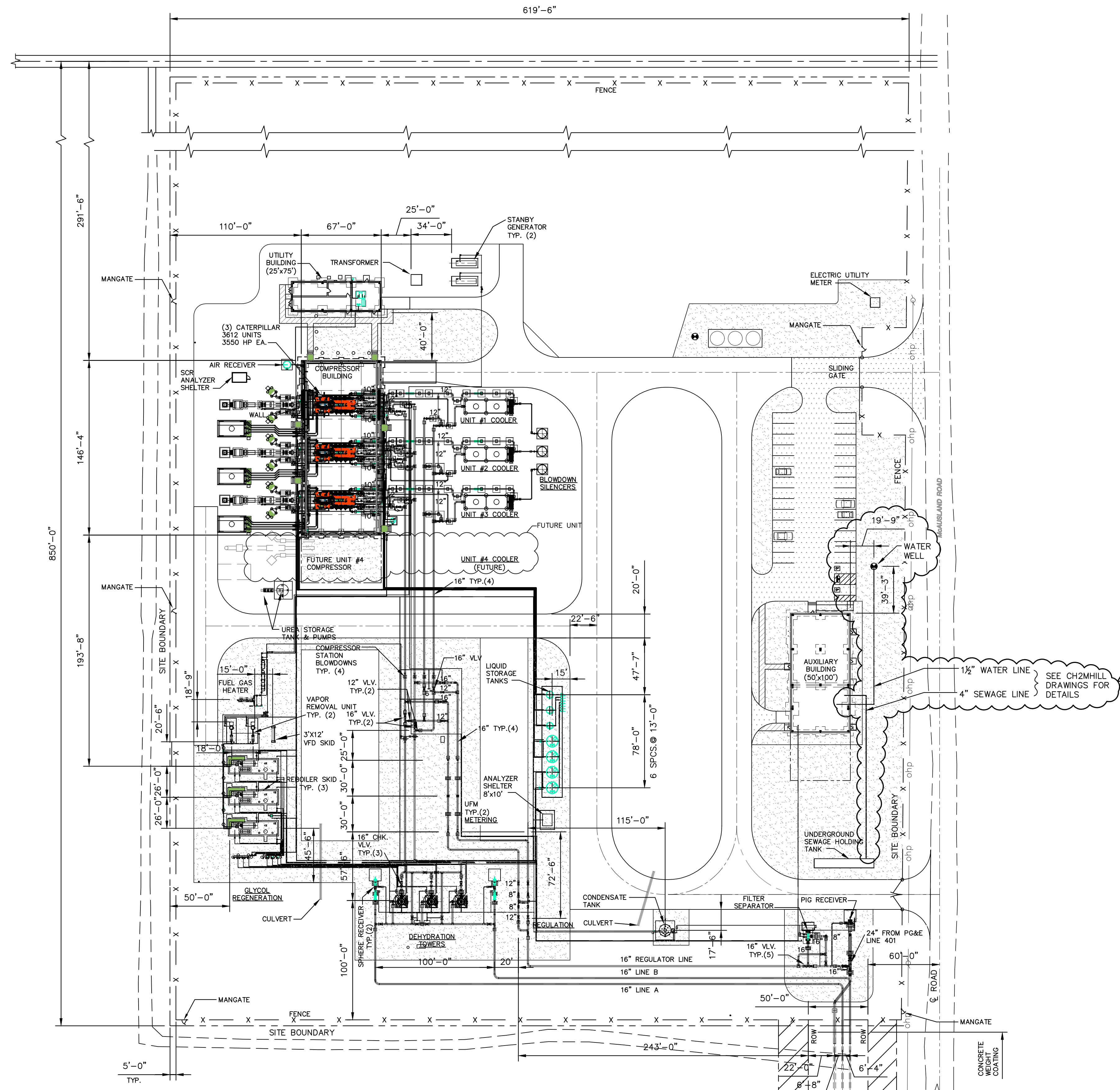
APRIL WIND ROSE



JULY WIND ROSE



OCTOBER WIND ROSE



SCALE IN FEET

DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND CPSC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

PREPARED BY:

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 WOODRIDGE, IL 60517
 TEL 630-353-4000
 FAX 630-353-7777
 WWW.ENENGINEERING.COM

REV LEVEL	DATE	BY	DESCRIPTION	CK.	APP.
1	10/07/11	AM	REVISED FOR CONSTRUCTION	DHF	MPM
0	07/22/11	AM	ISSUED FOR CONSTRUCTION	DHF	MPM
F	03/16/11	AM	RE-ISSUED FOR BID		
E	01/28/11	AM	ISSUED FOR BID		

REVISIONS



CENTRAL VALLEY GAS STORAGE
COMPRESSOR STATION
PIPING PLOT PLAN

REVISED FOR CONSTRUCTION
PHASES 5-6
10/07/2011

Scott Eckardt

From: Bushnell-Bergfalk, Susan <SBushnell-Bergfalk@icfi.com>
Sent: Wednesday, January 25, 2012 10:50 AM
To: Scott Eckardt
Cc: James Kiefer; John Boehme; David Hochart; Chiang, Eric
Subject: Varaince #14 - Additional Information for the Urea and Transfer Tanks
Attachments: 105056-T3-R6 Model (1).pdf; Urea_DWGs.pdf; Tank Location Exhibit of CVGS1-S-101-01_1-10-12.pdf

Scott-

As you requested, we are providing additional information on the urea and transfer tanks. The tanks are located at the compressor station near the Southern edge of the Compressor building (see attached "Tank Location Exhibit").

Tank Location

Urea Tank Southwest Corner of Compressor Building N 2 266 760.00, E 6 552 320.00
Transfer Tank Southeast Corner of Compressor Building N 2 266 818.00, E 6 552 412.00

Tank Dimensions

Urea Tank 6 500 gallons and approximately 10' diameter x 9' high
Transfer Tank 380 gallons and approximately 4' diameter x 5' high

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SHOP NOTE

ISSUED FOR FABRICATION

DATE: 11/04/11 *S.R.*

QUANTITY REQUIRED 1

GENERAL NOTES

- 1) ALL BOLT HOLES TO STRADDLE NORMAL TANK CENTERLINES UNLESS SHOWN OTHERWISE
- 2) NOZZLE PROJECTIONS ARE FROM OUTSIDE OF TANK TO FACE OF FLANGE - UNLESS SHOWN OTHERWISE
- 3) PROTECT ALL OPENINGS WITH WOOD COVERS OR PLASTIC PLUGS FOR SHIPMENT
- 4) SEE DETAIL SHEET FOR THE FOLLOWING TYPICAL DETAILS:
 - * ROOF TO SHELL DETAIL
 - * BOTTOM TO SHELL DETAIL
 - * LIFTING LUG DETAIL
 - * GROUNDING LUG DETAIL
 - * LADDER CLIP DETAIL
 - * CAP RING DETAIL

SEE DETAIL SHEET

DESIGN CRITERIA

6) TANK TO BE FREE OF FOREIGN DEBRIS BEFORE SHIPMENT

DESIGN CODE:	UL-142/API 650 APP-SEISMIC
DESIGN PRESSURE:	ATMOSPHERIC
DESIGN VACUUM:	ATMOSPHERIC
DESIGN TEMPERATURE:	-20°-120°F
OPERATING PRESSURE:	ATMOSPHERIC
OPERATING TEMPERATURE:	AMBIENT
SPECIFIC GRAVITY:	1.0
JOINT EFFICIENCY:	70%
RADIOGRAPHY:	NONE
CORROSION ALLOWANCE:	NA
CAPACITY:	450 GALLONS
WIND LOAD:	85 MPH
SEISMIC CRITERIA:	R = 3, I = 1.25 SDS - 56.2% SD1 - 33.2%

MATERIAL

ROOF SHELL & BOTTOM:	A-36
REINFORCEMENT PADS:	A-36
STRUCTURAL SUPPORTS:	A-36
PIPE:	SA-105-B
FLANGES, BLINDS, COUPLINGS & PLUGS:	SA-105
BOLTING:	SA-193-B7 / SA-194-2H
SERVICE GASKETS:	1/8" NEOPRENE
ESTIMATED WEIGHT EMPTY:	3,000 LBS

TESTING

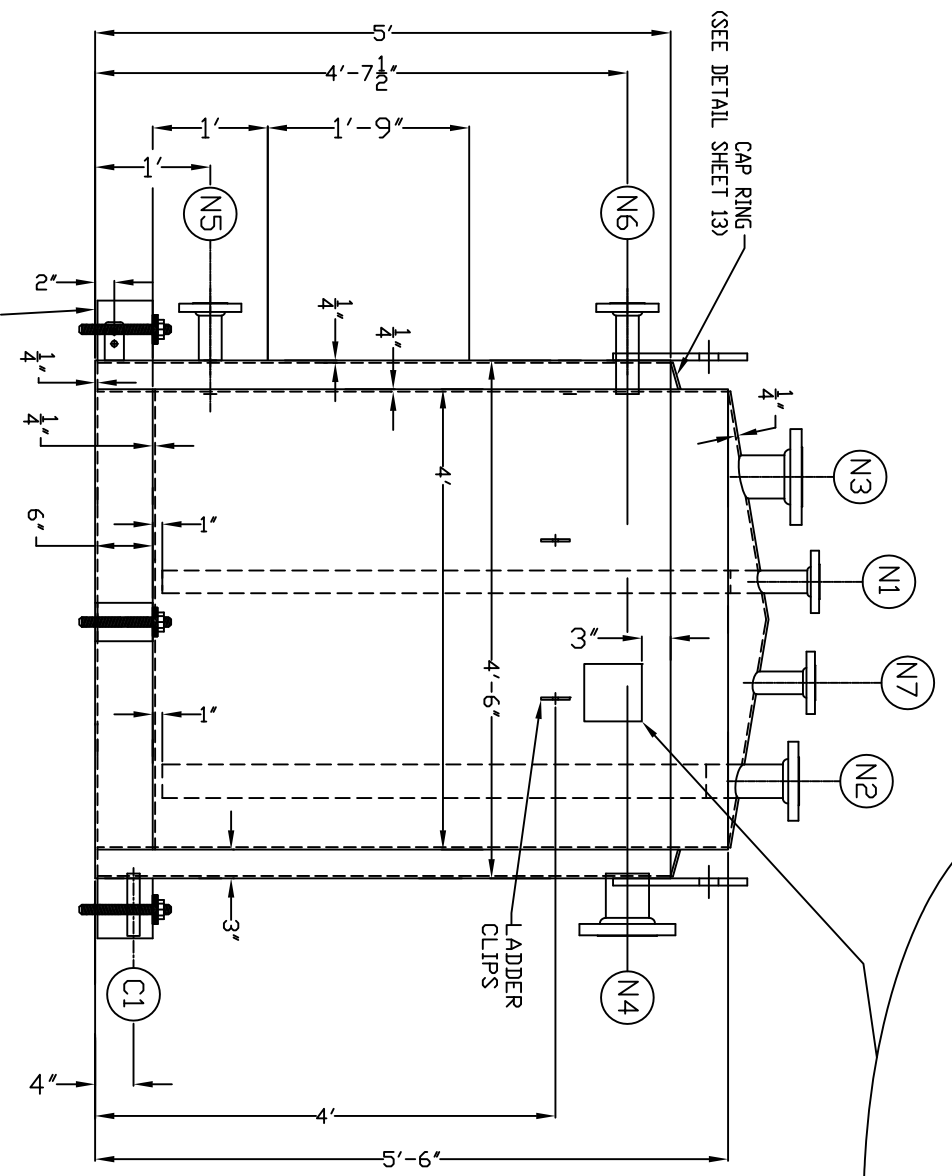
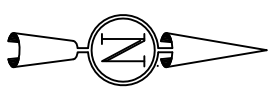
TESTING:	PER UL-142
PAINTING	
SURFACE PREPARATION:	PER SPEC
INSIDE	
OUTSIDE:	SSPC-SP-10 COMMERCIAL NEAR WHITE BLAST PER SPEC
PAINT INSIDE	
OUTSIDE:	1st COAT: DEVOE BAR-RUST 285V IN SATTY GREEN 2nd COAT: DEVOE DEHYANE 379H IN IVORY SOLK 41XX 70/11Z DRY FILM THICKNESS 2-3 MILS 2 COATS AMERLACK 400 TO TANK BOTTOM 4-8 MILS PER COAT

ACCESSORIES

CAGED LADDER:	AS REQUIRED ON PURCHASE ORDER
HANDRAIL:	AS REQUIRED ON PURCHASE ORDER

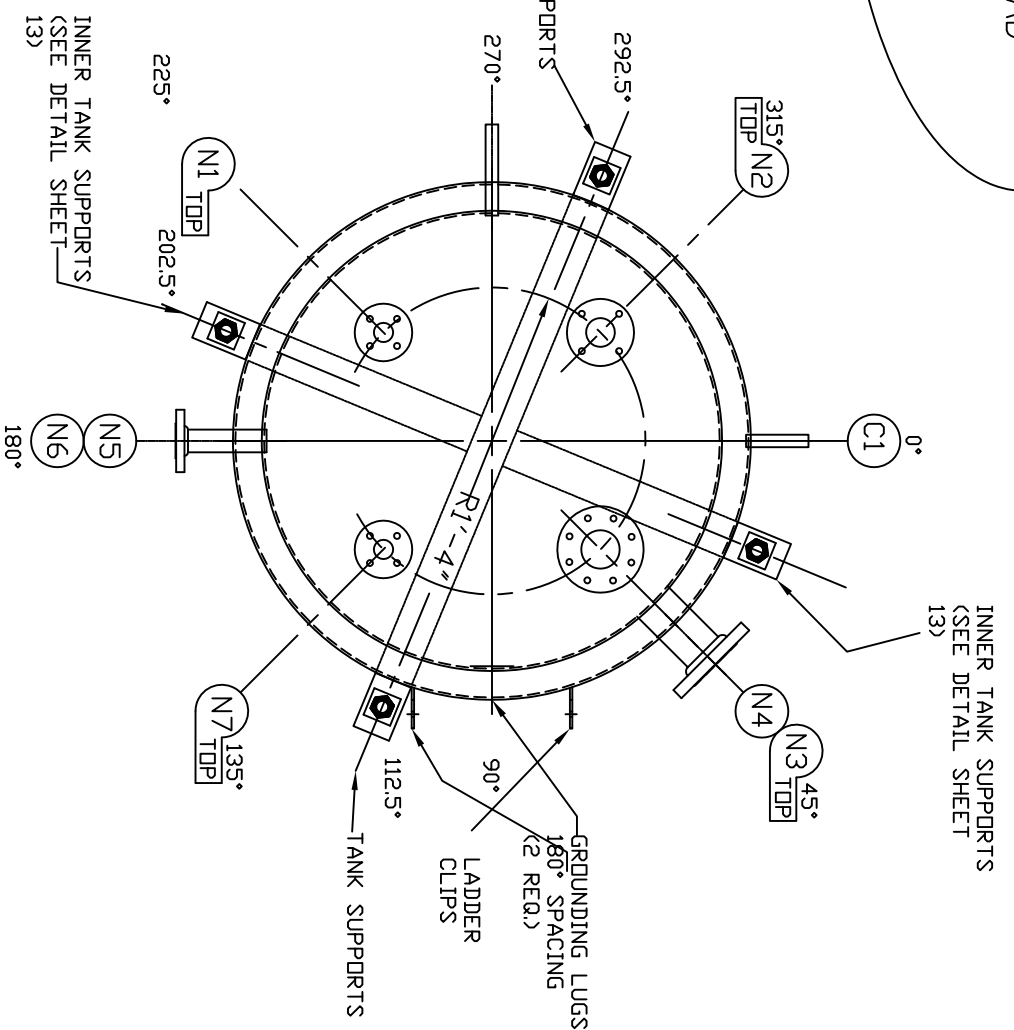
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7	10/25/11	MADE CHANGES PER CUSTOMER REQUEST	C.V.
6	10/13/11	MADE CHANGES PER ENGINEER REQUEST	C.V.
5	10/05/11	CHANGED DETAIL SHEET PAGE NUMBER	C.V.
4	9/28/11	CHANGED CAP RING & ADDED SPACER RINGS	R.A.
3	9/15/11	MADE CHANGES PER CUSTOMER REQUEST	R.A.
2	7/27/11	MADE CHANGES PER CUSTOMER REQUEST	R.A.
1	6/20/11	MADE CHANGES PER CUSTOMER REQUEST	R.A.
0	6/6/11	ISSUED FOR APPROVAL	R.A.

REVISIONS	INITIAL
DRAWN BY: ROCKY ADCOCK	JOB NUMBER: 105056
CHECKED BY: BUD M.	CAD FILE NAME: 105056-73-R8
PURCHASE ORDER NO. RP04-PH6-0708-RQ	DRAWING NAME: 105056-73-R8
PROJECT	FLUOR
4'x5'/450 GALLONS/TK ABJ-3150	
LIDE INDUSTRIES	
1618 WEST HIGHWAY 84	
MEXIA, TEXAS 76667	
254-562-0233	
SHEET 3 OF 13	



ELEVATION

1/4" x 6" x 6" SA 36 PAD
LOCATED AT 245°, 295°
TO THE CENTER OF THE PAD
ROLL TO TANK O.D.



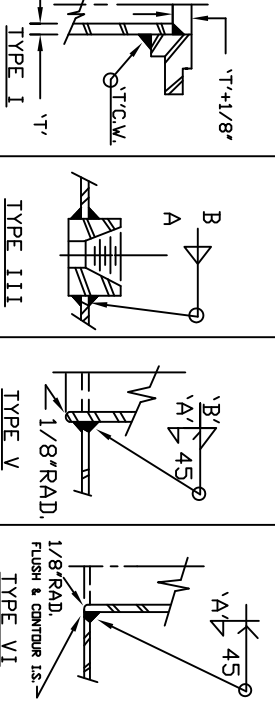
ORIENTATION

TK ABJ-3150

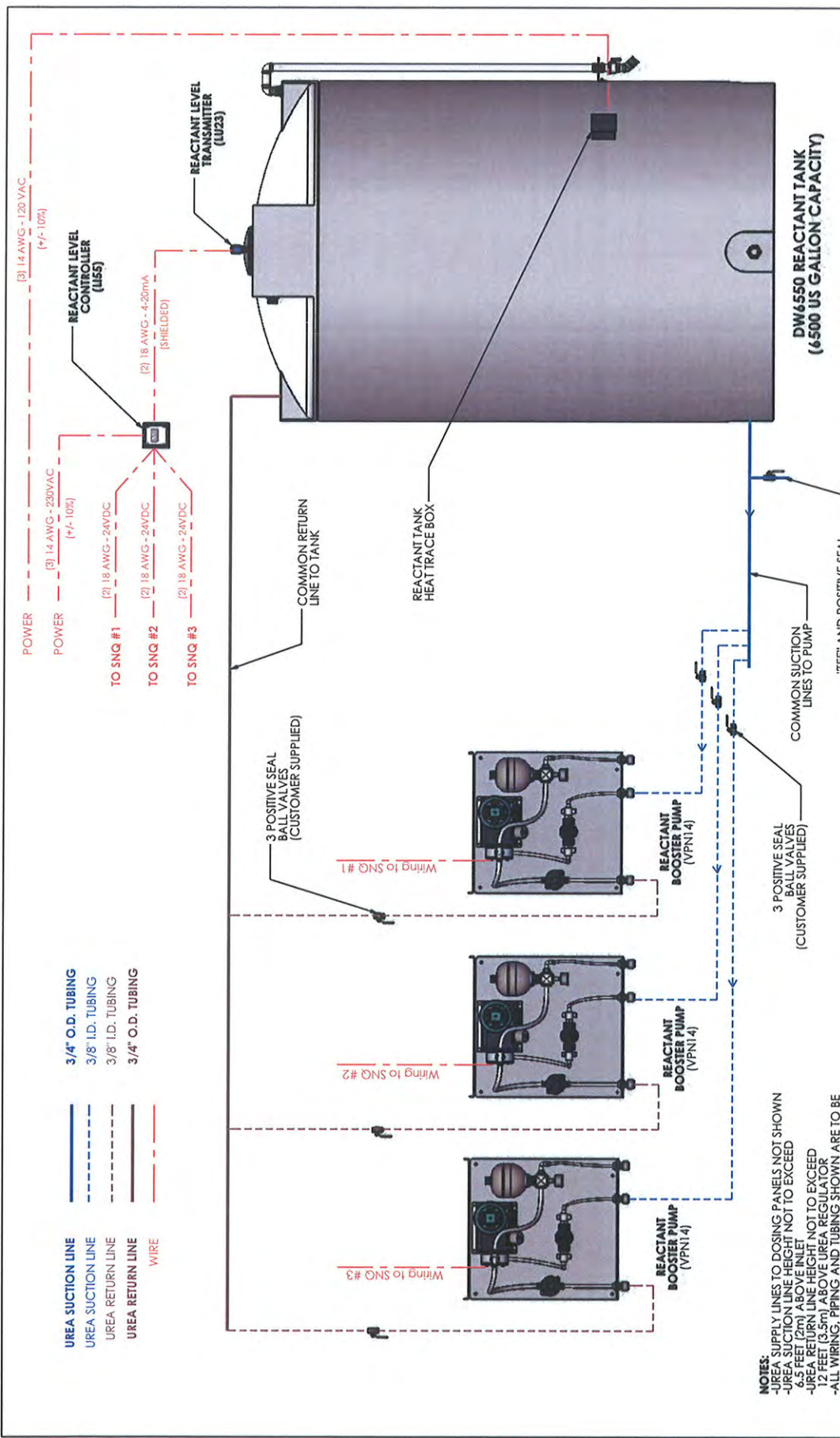
MATERIAL: INNER @ OUTER
TANKS
ROOF - 1/4"
SHELL - 1/4"
BOTTOM - 1/4"

MARK	QTY	SIZE	RATING	FACING	NECK	O.S. PROD.	I.S. PROD.	TYPE	A	B	REINFORCEMENT PAD	C	BLIND STUDS	NO. STUDS	STUD SIZE	SERVICE	MARK
N7	1	2"	150#	RFSO	STD.	6"	1/4"	I.V	1/4"	1/4"			N/A	N/A	N/A	LEVEL INDICATOR	N7
N6	1	2"	150#	RFSO	STD.	6"	1/4"	I.V	1/4"	1/4"			N/A	N/A	N/A	LEVEL SWITCH	N6
N5	1	2"	150#	RFSO	STD.	6"	1/4"	I.V	1/4"	1/4"			N/A	N/A	N/A	ANNULUS LEAK DETECTION	N5
N4	1	4"	150#	RFSO	STD.	6"	1/4"	I.V	1/4"	1/4"			N/A	N/A	N/A	ANNULUS VENT	N4
N3	1	4"	150#	RFSO	STD.	6"	1/4"	I.V	1/4"	1/4"			N/A	N/A	N/A	VENT	N3
N2	1	3"	150#	RFSO	STD.	6"	NA	I.V	1/4"	1/4"			N/A	N/A	N/A	TRANSFER (SEE ELEV.)	N2
N1	1	2"	150#	RFSO	STD.	6"	NA	I.V	1/4"	1/4"			N/A	N/A	N/A	INLET (SEE ELEV.)	N1
C1	1	3/4"	3000#	NPT	(H)CPLG	2"	1/4"	III	1/4"	1/4"			PLUGGED	N/A	N/A	ANNULUS DRAIN	C1

SCHEDULE OF OPENINGS



TYPE I	1/4" x 1/8"
TYPE III	
TYPE V	1/8" RAD.
TYPE VI	1/8" RAD. FLUSH & CONTIGUOUS 1.5"



UREA SUCCTION LINE (3/4" O.D. TUBING)

UREA SUCCTION LINE (3/8" I.D. TUBING)

UREA RETURN LINE (3/8" I.D. TUBING)

UREA RETURN LINE (3/4" O.D. TUBING)

WIRE

- NOTES:**
- UREA SUPPLY LINES TO DOSING PANELS NOT SHOWN
 - UREA SUCCTION LINE HEIGHT NOT TO EXCEED 6.5 FEET (2m) ABOVE INLET
 - UREA RETURN LINE HEIGHT NOT TO EXCEED 12 FEET (3.6m) ABOVE UREA REGULATOR
 - ALL PIPING TO BE SUPPLIED BY CUSTOMER
 - SOLSS AND POLY CAN BE USED ON UREA LINES
 - DIAGRAM ILLUSTRATES THE PREFERRED PIPING CONNECTION, BUT DOES NOT INCLUDE ALL POSSIBLE FITTINGS, SUPPORTS, OR PLUMBING DEVICES WHICH MAY BE REQUIRED BY LOCAL AUTHORITIES OR SITE SPECIFIC CRITERIA. ROUTING IS SCHEMATIC IN NATURE.

MIRATECH CORPORATION

Reactant Tank Layout System Interconnect

DRAWING: Central Valley - CBL-A-CIS-ZXS SII

REV: 1

SHEET 2 OF 2

DIMENSIONS ARE APPROXIMATE IN INCHES UNLESS OTHERWISE SPECIFIED	
DO NOT SCALE DRAWING	
DRAWN: BIF	DATE: 10/20/2010
REVIEWED BY: JWS	DATE: 10/25/2010

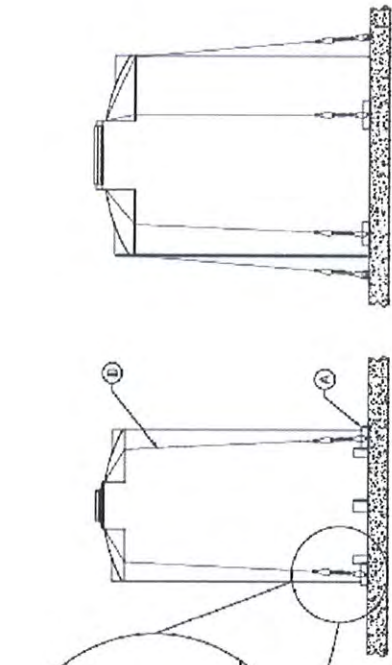
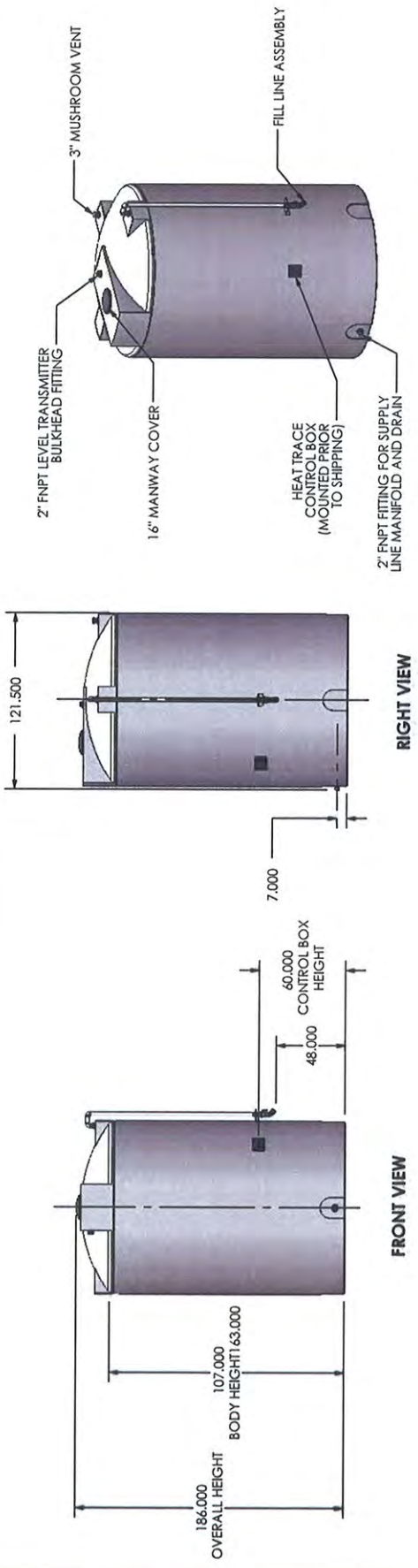
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PROJECT NAME: **Central Valley**

SALES ORDER NO.:

FABRICATION P.O.:



RESTRAINT CLIPS
CABLE CLAMPS
TURNBUCKLES
CABLE

A.
B.
C.
D.

SEISMIC TIE-DOWNS
(RESTRAINT CLIPS SUPPLIED BY CUSTOMER)

NOTES:

- DOUBLE WALLED
- CAPACITY: 6500 (US GALLONS)
- SEISMIC TIE DOWNS ARE RATED UBC ZONE 4
- MATERIAL CONSTRUCTION: CROSSLINK POLYETHYLENE
- 2" POLYURETHANE SPRAY FOAM INSULATION WITH MASTIC COATING
- HEAT TRACE WILL PROVIDE 50 DEGREE DELTA T FROM AMBIENT TEMPERATURE



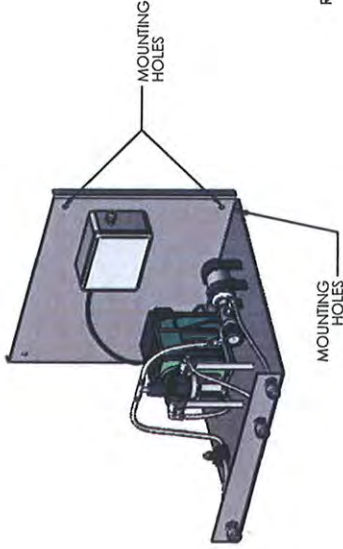
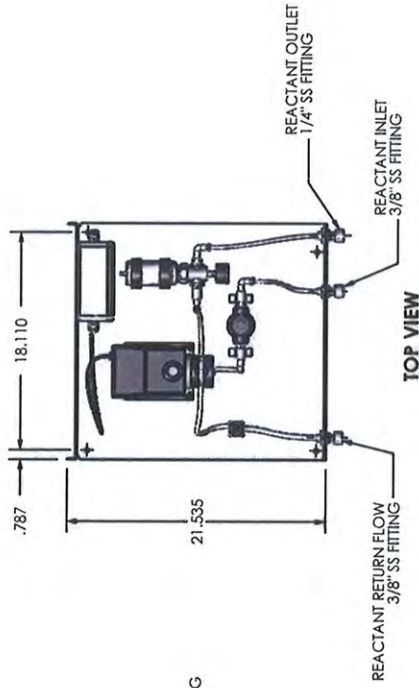
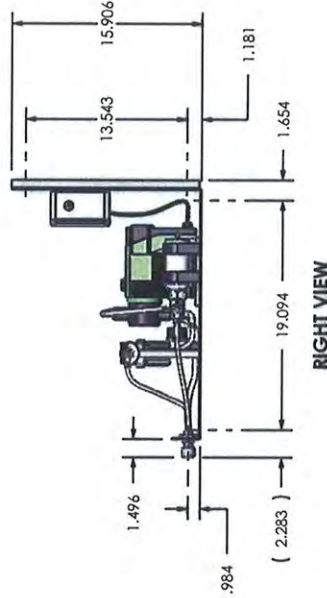
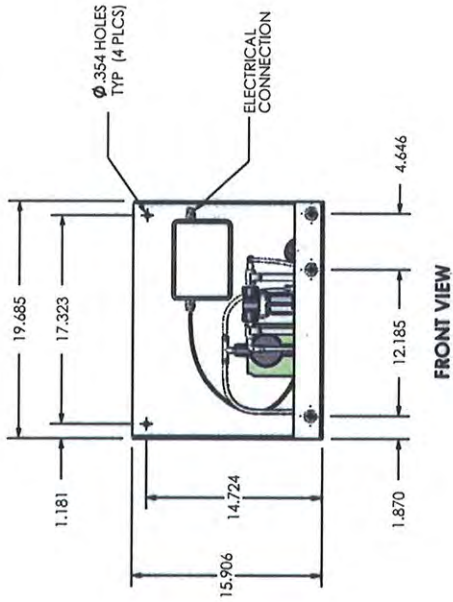
**DW6550 Reactant Tank
Submital Drawing**

DRAWING	Central Valley - DW6550 SD	REV	3
SCALE	1:10	WEIGHT	2570LB EMPTY
SIZE	A	SHEET 1 OF 1	

DIMENSIONS ARE APPROXIMATE IN INCHES UNLESS OTHERWISE SPECIFIED	
DO NOT SCALE DRAWING	
DRAWN	BTF
DATE	10/10/2010
REVIEWED BY	JWS
DATE	10/25/2010

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PROJECT NAME	Central Valley
SALES ORDER NO.	
FABRICATION P.O.	



- NOTES:**
- POWER CONSUMPTION: 0.25 KW MAX.
 - POWER: SUPPLIED FROM SING. CONTROLLER
 - OPERATION TEMPERATURE: 32 F - 104 F

INSTALLATION INSTRUCTIONS:

- UNIT TO BE WALL MOUNTED SO THAT THE MAXIMUM SUCTION HEIGHT IS LESS THAN 5 FEET

VPNI14 Booster Pump
Submital Drawing

Central Valley - VPNI14 SD

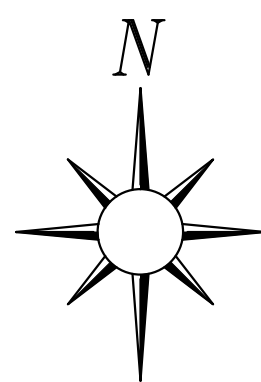
SCALE 1:15 WEIGHT: 103 lb SHEET 1 OF 1

DIMENSIONS ARE APPROXIMATE IN INCHES UNLESS OTHERWISE SPECIFIED	
DO NOT SCALE DRAWING	
DRAWN	BTF
DATE	5/18/2010
REVIEWED BY	JWS
DATE	10/25/2010
SIZE	A

PROPRIETARY AND CONFIDENTIAL

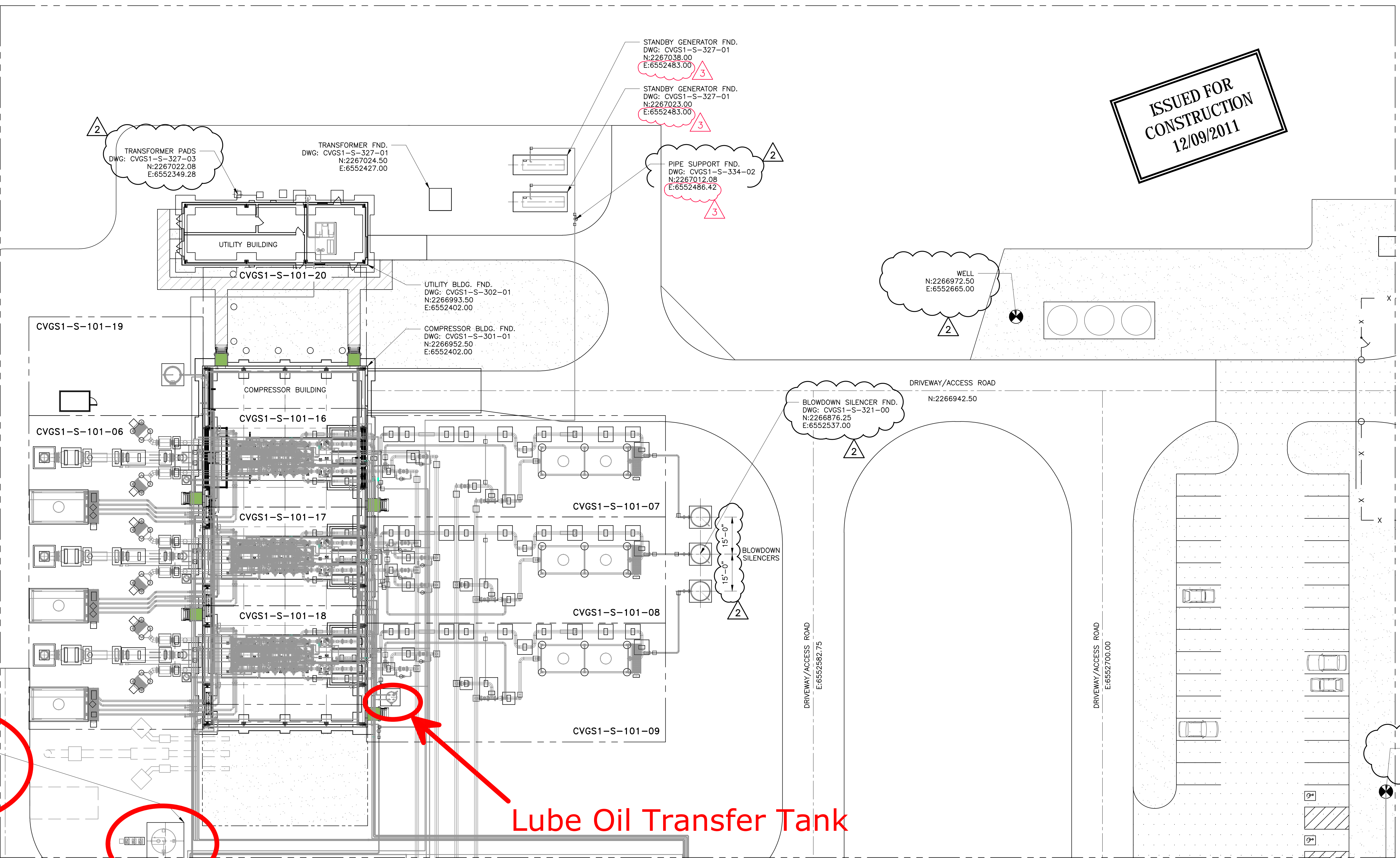
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PROJECT NAME	Central Valley
SALES ORDER NO.	
FABRICATION P.O.	



DRAWING LIMITS

ISSUED FOR CONSTRUCTION
12/09/2011



Lube Oil Transfer Tank

MATCHLINE SEE DWG. CVGS1-S-101-02.DWG

- NOTES:**
- FOR GENERAL NOTES SEE DRAWINGS: CVGS1-S-002-03 & CVGS1-S-002-04.
 - FOR PIPE SUPPORT DETAILS SEE DRAWINGS: CVGS1-S-328-01 & CVGS1-S-328-02.
 - ALL COORDINATES SHOWN ARE TO ϕ OF FOUNDATIONS UNLESS OTHERWISE NOTED.

DESIGNED IN ACCORDANCE WITH TITLE 49-PART 192 OF MINIMUM FEDERAL SAFETY STANDARDS AND GPCC GUIDE FOR GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS, LATEST EDITION.

PREPARED BY:
ENEngineering
7135 JANES AVENUE
WOODRIDGE, IL 60517
TEL. 630-353-4000
FAX 630-353-7777
WWW.ENENGINEERING.COM

REV LEVEL	DATE	BY	DESCRIPTION	CK	APP.
3	1/10/12	MJG	REVISED PER REDLINE	CCL	MPM
2	12/09/11	MJG	ISSUED FOR CONSTRUCTION	CCL	MPM
1	09/30/11	MJG	ISSUED FOR CONSTRUCTION	CCL	MPM
0	05/26/11	FLH	ISSUED FOR CONSTRUCTION	CCL	MPM
A	01/28/11	RSR	ISSUED FOR BID	CCL	MPM



CENTRAL VALLEY GAS STORAGE

COMPRESSOR STATION FOUNDATION LOCATION PLAN SHEET 1

COLUSA COUNTY CALIFORNIA

DATE: 11/04/10 SCALE: 1" = 20' DRAWN BY: RSR LOC. NO: - DRAWING NUMBER: CVGS1-S-101 SHEET NO: 01 REV: 3

Scott Eckardt

From: Bushnell-Bergfalk, Susan <SBushnell-Bergfalk@icfi.com>
Sent: Wednesday, February 15, 2012 8:24 PM
To: jkiefer@aglresources.com; Scott Eckardt
Subject: Re: Tank Size Approval from Colusa County

Hi Scott- please email below from the County.

Sue

From: James Kiefer [<mailto:jkiefer@aglresources.com>]
Sent: Wednesday, February 15, 2012 07:06 PM
To: Bushnell-Bergfalk, Susan
Subject: Fw: Tank sizes

Sue,

Confirmation from Colusa County on tank sizes. Please forward with proper Variance #.

Kiefer
Jim Kiefer
Central Valley Gas Storage LLC
Email = jkiefer@aglresources.com
Office = (630)245-6101
Cell = (630)780-0743

From: Steve Hackney [<mailto:shackney@countyofcolusa.org>]
Sent: Wednesday, February 15, 2012 08:03 PM
To: James Kiefer
Cc: Denise Carter [External] <denisecarter@succeed.net>
Subject: Tank sizes

Dear Mr. Kiefer:

The purpose of this email is to confirm to you the County Department of Planning & Building, through its fire code consultant, The McMullen Company, is aware of the liquid storage tank sizes that are larger than the Proponent's Environmental Assessment from 2009. All tank sizes were filed with the County for fire review at the larger sizes.

If you should need any additional response or information, please do not hesitate to contact me.

Thank you.

Stephen Hackney, AICP

Director of Planning & Building

County of Colusa

530.458.0480

shackney@countyofcolusa.org

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Central Valley Gas Storage LLC
 3333 Warrenville Road
 Suite 300
 Lisle, IL 60532

Phone 630 245-6150
 Fax 630 245-7835
 Internet www.CVGasStorage.com

February 23, 2012

Mr. Eric Chiang
 California Public Utilities Commission
 505 Van Ness Ave, 4th Floor
 San Francisco, CA 94610

Subject: Central Valley Natural Gas Storage Project – Information to Support Approval to Increase the Tank Size and Hazardous Material Storage at the Compressor Station (Variance No. 15)

Dear Eric:

As you are aware, Central Valley Gas Storage, LLC (CVGS) submitted Variance No. 15 to the CPUC on November 18, 2011 (and augmented and resubmitted the variance form on January 30, 2012). This variance requested approval to increase the size of tanks and quantities of hazardous materials that will be stored at the compressor station. As part of the variance review process, the CPUC requested CVGS provide a list of all agencies that have been contacted as part of the project modification process and if the agencies had provided any feedback. As discussed previously, Colusa County is the only agency that we believe has review and approval authority over the increase in tank sizes and the use and storage of hazardous materials at the compressor station. This letter provides information to support this determination.

As described in this variance request form, Table 5.8-2 in the IS/MND contained a list of hazardous materials that may be stored at the compressor station site. This table was based on the best available information at the time the IS/MND was prepared. The most current estimate of quantities required is different than what was originally estimated in the IS/MND. The tank sizes and associated maximum fill capacity are provided below in red and original IS/MND estimates from Table 5.8-2 are provided in black.

Material	Table 5.8-2 (IS/MND) Estimated Quantity Stored On-Site (gallons)	Tank Size (Maximum Fill Capacity) (gallons)
Clean tri-ethylene glycol	2,500	6,300 (5,600)
Used tri-ethylene glycol	2,500	6,300 (5,600)
Engine coolant	1,500	6,300 (5,600)
Engine lube oil	1,000	2,500 (2,500)
Compressor lube oil	1,000	2,500 (2,500)
Used lube oil	800	1,480 (1,200)
Condensate tank	Not Listed but shown in Figure 4-5	6,300 (5,600)

Lube oil transfer tank	Not Listed	450 (380)
Used engine coolant	Not Listed	6,300 (5,600)
Urea tank	Not Listed	6,500 (6,500)

These revised tank sizes and quantities were provided to Colusa County Planning and Building Department in the Hazardous Material Business Plan. This information was also circulated to the Environmental Health Department, Office of Emergency Services, and Fire District. CVGS provided the CPUC an email on February 15, 2012 from Mr. Steve Hackney (Director of the Colusa County Department of Building and Planning) confirming that the County is aware of the liquid storage tank sizes and that the larger tank sizes were filed with the County for fire review at the larger sizes. As part of the County review process, the County notified applicable agencies and did not receive any comments.

In addition, the hazardous materials and estimated quantities were described in the MND (as stated above) and as part of the public review process, the CPUC did not receive any significant agency comments related to the storage and use of hazardous materials at the compressor station.

Therefore, it is our understanding that the County is the only agency that has authority over hazardous material storage and use at the compressor station site and no other agencies require notification of the increase in tank sizes and hazardous material quantities.

Please let me know if you have any questions.

Regards,



Jim Kiefer
 Director Project Development
 Central Valley Gas Storage

CC:
 David Hochart/Scott Eckardt, Dudek
 John Boehme, Central Valley Gas Storage
 Sue Bushnell Bergfalk, ICF International