BLUE SKY ENVIRONMENTAL LLC

September 23, 2014

Bonnie Braganza
Federal Minor NSR Permit Coordinator (PDR)
U.S. Environmental Protection Agency
Region 6
1445 Ross Avenue; Ste 1200
Dallas, Texas 75202-2733

Re: Amendment to Federal Minor New Source Review (NSR) Application for Indian Country
Sandia Resort and Casino, Albuquerque, New Mexico

Dear Ms. Braganza:

On behalf of the Pueblo of Sandia, a sovereign tribal nation located in Bernalillo and Sandoval Counties, New Mexico, attached please find a second amendment to the Federal Minor Source Review (NSR) application under EPA's Federal Minor NSR Program in Indian Country that was submitted to you on August 30, 2012 and amended in a letter to you dated August 12, 2014. This amendment is in regards to the addition of three new diesel storage tanks:

- Two 410 gallon day tanks associated with each of the new 4,000 kW generators
- One 12,000 gallon tank

This application is in regards to the sources at the Sandia Resort and Casino located at 30 Rainbow Road NE, Albuquerque, New Mexico. Attached please find:

- EPA Application NEW for Application of New Construction (Federal Minor New Source Review Program in Indian Country)
- Updated Narrative Description
- Updated Process Flow Diagrams
- Tank Details including NSPS applicability and drawings

ESA and NHPA information was sent to you on September 19, 2014 via an email from Scott Bulgrin of the Pueblo of Sandia Environment Department. The emissions spreadsheet was sent to you yesterday via email by me.

The Pueblo of Sandia appreciates your review of the application and future issuance of this synthetic minor permit.

P.O. Box 603 • Hingham, MA • 02043
Telephone 617-834-8408 •Fax 857-221-9464

If you have any questions or require additional information, please do not hesitate to contact me at 617-834-8408 or at don@blueskyenviro.com.

Sincerely,
Blue Sky Environmental LLC

Don C. DiCristofaro, CCM
President
Attachments

cc: Joseph M. Rodriquez, Sandia Resort and Casino Facility Superintendent

United States Environmental Protection Agency Region 6

FEDERAL MINOR NEW SOURCE REVIEW PROGRAM IN INDIAN COUNTRY

Application for New Construction
(Form NEW)

Please check all that apply to show how you are using this form:

- ☐ **Proposed Construction of a New Source**
- ☑ **Proposed Construction of New Equipment at an Existing Source**
- ☐ **Proposed Modification of an Existing Source**
- ☐ **Other – Please Explain**

Please submit information to following:

Federal Minor NSR Permit Coordinator
U.S. EPA, Region 6 PDR
1445 Ross Ave
Dallas, TX 75202
http://yosemite.epa.gov/r6/Apermit.nsf/AirP

The Tribal Environmental Contact for Region 6
http://www.epa.gov/region06/6dra/oejta/index.html

For more information, visit:
http://www.epa.gov/air/tribal/tribalnsr.html

A. GENERAL SOURCE INFORMATION

1. (a) **Company Name** Pueblo of Sandia (b) **Operator Name** Pueblo of Sandia	2. **Source Name** Sandia Resort & Casino		
3. Type of Operation Casino	4. Portable Source? ☐Yes ☑No 5. Temporary Source? ☐Yes ☑No		
6. NAICS Code 71320	7. SIC Code		
8. Physical Address (home base for portable sources) 30 Rainbow Road NE; Albuquerque, NM 87113-2156			
9. Reservation* Pueblo of Sandia	10. County* Bernadillo	11a. Latitude* 35deg12min23.32 sec N	11b. Longitude* 106deg33min59.04W
12a. Quarter Quarter Section* 6 and 7	12b. Section* 1	12c. Township* 11 North	12d. Range* 3 East

*Provide all proposed locations of operation for portable sources

B. PREVIOUS PERMIT ACTIONS (Provide information in this format for each permit that has been issued to this source. Provide as an attachment if additional space is necessary)

Source Name on the Permit
No air permits issued to date
Permit Number (xx-xxx-xxxxx-xxxx.xx)
Date of the Permit Action

Source Name on the Permit
Permit Number (xx-xxx-xxxxx-xxxx.xx)
Date of the Permit Action

Source Name on the Permit
Permit Number (xx-xxx-xxxxx-xxxx.xx)
Date of the Permit Action

Source Name on the Permit
Permit Number (xx-xxx-xxxxx-xxxx.xx)
Date of the Permit Action

Source Name on the Permit
Permit Number (xx-xxx-xxxxx-xxxx.xx)
Date of the Permit Action

C. CONTACT INFORMATION

Company Contact Pueblo of Sandia; Joseph M. Rodriguez as Representative	Title Superintendent of Facilities
Mailing Address 30 Rainbow Road NW; Albuquerque, NM 87113-2156	
Email Address jmrodriguez@sandiacasino.com	
Telephone Number 505-796-7750	Facsimile Number 505-796-7617
Operator Contact (if different from company contact) Pueblo of Sandia; Paul Bitner	Title Electrical Supervisor
Mailing Address 30 Rainbow Road NW; Albuquerque, NM 87113-2156	
Email Address pbitner@sandiacasino.com	
Telephone Number 505-771-5086	Facsimile Number
Source Contact Same as owner contact	Title
Mailing Address	
Email Address	
Telephone Number	Facsimile Number
Compliance Contact Frank Chaves	Title Pueblo of Sandia Environment Director
Mailing Address 30 Rainbow Road NW; Albuquerque, NM 87113-2156	
Email Address fchaves@sandiapueblo.nsn.us	
Telephone Number 505-771-5086	Facsimile Number

E. TABLE OF ESTIMATED EMISSIONS

The following tables provide the total emissions in tons/year for all pollutants from the calculations required in Section D of this form, as appropriate for the use specified at the top of the form.

E(i) – Proposed New Source

Pollutant	Potential Emissions (tpy)	Proposed Allowable Emissions (tpy)	
PM	0.07	0.07	PM - Particulate Matter PM_{10} - Particulate Matter less than 10 microns in size $PM_{2.5}$ - Particulate Matter less than 2.5 microns in size SOx - Sulfur Oxides NOx - Nitrogen Oxides CO - Carbon Monoxide VOC - Volatile Organic Compound Pb - Lead and lead compounds Fluorides - Gaseous and particulates H_2SO_4 - Sulfuric Acid Mist H_2S - Hydrogen Sulfide TRS - Total Reduced Sulfur RSC - Reduced Sulfur Compounds
PM_{10}	0.07	0.07	
$PM_{2.5}$	0.07	0.07	
SO_x	0.02	0.02	
NO_x	0.01	0.01	
CO	0.80	0.80	
VOC	0.08	0.08 (doesn't incl tanks)	
Pb	0	0	
Fluorides	0	0	
H_2SO_4	0	0	
H_2S	0	0	
TRS	0	0	
RSC	0	0	

Emissions calculations must include fugitive emissions if the source is one the following listed sources, pursuant to CAA Section 302(j):

(a) Coal cleaning plants (with thermal dryers);
(b) Kraft pulp mills;
(c) Portland cement plants;
(d) Primary zinc smelters;
(e) Iron and steel mills;
(f) Primary aluminum ore reduction plants;
(g) Primary copper smelters;
(h) Municipal incinerators capable of charging more than 250 tons of refuse per day;
(i) Hydrofluoric, sulfuric, or nitric acid plants;
(j) Petroleum refineries;
(k) Lime plants;
(l) Phosphate rock processing plants;
(m) Coke oven batteries;
(n) Sulfur recovery plants;
(o) Carbon black plants (furnace process);
(p) Primary lead smelters;
(q) Fuel conversion plants;
(r) Sintering plants;
(s) Secondary metal production plants;
(t) Chemical process plants
(u) Fossil-fuel boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input;
(v) Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels;
(w) Taconite ore processing plants;
(x) Glass fiber processing plants;
(y) Charcoal production plants;
(z) Fossil fuel-fired steam electric plants of more that 250 million British thermal units per hour heat input, and
(aa) Any other stationary source category which, as of August 7, 1980, is being regulated under section 111 or 112 of the Act.

E(ii) – Proposed New Construction at an Existing Source or Modification of an Existing Source

Pollutant	Current Actual Emissions (tpy)	Current Allowable Emissions (tpy)	Post-Change Potential Emissions (tpy)	Post-Change Allowable Emissions (tpy)
PM			2.66	2.66
PM_{10}			2.66	2.66
$PM_{2.5}$			2.66	2.66
SO_x			0.10	0.10
NO_x			53.99	53.99
CO			41.74	41.74
VOC			4.24	4.24
Pb			6.63E-5	6.63E-5
Fluorides			0	0
H_2SO_4			0	0
H_2S			0	0
TRS			0	0
RSC			0	0

PM - Particulate Matter
PM_{10} - Particulate Matter less than 10 microns in size
$PM_{2.5}$ - Particulate Matter less than 2.5 microns in size
SOx - Sulfur Oxides
NOx - Nitrogen Oxides
CO - Carbon Monoxide
VOC - Volatile Organic Compound
Pb - Lead and lead compounds
Fluorides - Gaseous and particulates
H_2SO_4 - Sulfuric Acid Mist
H_2S - Hydrogen Sulfide
TRS - Total Reduced Sulfur
RSC - Reduced Sulfur Compounds

[Disclaimers] The public reporting and recordkeeping burden for this collection of information is estimated to average 20 hours per response, unless a modeling analysis is required. If a modeling analysis is required, the public reporting and recordkeeping burden for this collection of information is estimated to average 60 hours per response .Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Narrative Description

On July 13, 2009 the Sandia Resort and Casino (the "Casino"), an instrumentality of a federally recognized Indian tribe submitted a notification regarding three electrical generators at the Casino located at 30 Rainbow Road NE in Albuquerque, New Mexico at the Pueblo of Sandia Indian land. The notification was submitted pursuant to the EPA Memorandum entitled *Potential to Emit (PTE) Transition Policy for Part 71 Implementation in Indian Country* from John S. Seitz, Director, Office of Air Quality Planning and Standards, and Eric V. Schaeffer, Director, Office of Regulatory Enforcement, dated March 7, 1999 ("EPA Transition Memo"). As per the EPA Transition Memo, the EPA treated a source as non-major for the purposes of the Federal Operating Permits Program (Part 71) if its actual emissions are and remain below 50 percent of the PTE thresholds for major source status, for every consecutive 12-month period (beginning with the 12 months immediately preceding March, 1999) and it maintains adequate records to demonstrate that its actual emissions are kept below these levels. On July 1, 2011, the EPA promulgated the final rule for New Source Review ("NSR") in Indian Country. The final rule became effective on August 30, 2011. The EPA Transition Memo specifies that the PTE transition policy terminates when EPA adopts and implements a mechanism that can be used to limit PTE or EPA explicitly provides such a mechanism. Since this new minor NSR program for Indian Country adopts and implements a mechanism that can be used to limit PTE the PTE transition policy has been terminated by EPA. For sources, such as the Casino, that are currently operating under the EPA Transition Memo, synthetic minor permit applications are required by EPA by September 4, 2012. The synthetic minor permit application was submitted to EPA by the tribe on August 30, 2012.

Since the 2012 filing with EPA, the facility plans to install two Caterpillar 4,000 kW generators, Engine Model C175-20 (Model Year 2014, Tier 2 Certified, Emergency Use Only), later this year. Each generator will have a 410 gallon diesel fuel tank. In addition, a 12,000 gallon stand alone tank will also be added. Thus, the facility will operate the following emission sources:

- Two Caterpillar 4,000 kW Generators with 5,646 hp engines Model C175-20, Tier 2 Certified, Emergency Use Only (To be installed in late 2014)
- Two Detroit Diesel Model DDC 16V-4000 rated diesel stand-by generators, 2935 hp each
- One Detroit Diesel Model MTV 1000 rated diesel stand-by generator, 1,676 hp
- Three 1,000 gallon diesel Fuel Tanks
- Two 410 gallon diesel Day Fuel Tanks
- One 12,000 gallon diesel Fuel Tank
- Thirteen 2.07 mmBtu/hr natural gas fired boilers
- Four 0.99 mmBtu/hr natural gas fired boilers

The three Detroit Diesel generators are existing units and are currently used solely for emergency power during periods when electrical power from the local utilities is not available, testing/maintenance, and for non-emergency demand response ("DR") once the engines are upgraded. The engines associated with the three Detroit Diesel generators operate under the National Emission Standards for Hazardous Air Pollutants ("NESHAP") for reciprocating internal combustion engines ("RICE") as per 40 CFR 63 Subpart ZZZZ. The two new generators to be installed in late 2014 will have Tier 2 certified emergency only engines so the generators will be used for emergency use and testing/maintenance only. The engines will operate under EPA's New Source Performance Standards as per 40 CFR 60 Subpart IIII. The generators are driven by diesel-fueled RICE which are sources of emissions of regulated air pollutants and hazardous air pollutants ("HAPs"). The calculated HAP emissions are less than 1000 lb/yr for the limited operation of all the diesel generators, and therefore have no monitoring or applicable requirement with the exception of recordkeeping for 40 CFR 63 ZZZZ for the three older engines.

Once the engines for the three older generators (or a subset) have been upgraded to meet the non-emergency requirements of the RICE NESHAP as per 40 CFR 63 Subpart ZZZZ, the Casino plans to reenter the three generators (or a subset) back into a non-emergency demand response ("DR") program that could be called a maximum of 100 hours per year. The generators continue to operate for emergencies when electrical power is not available from the local utility and for testing/maintenance. All electrical generation is used onsite; electrical power is not sent to the grid. The generators are owned and operated by the Casino; however, participation in the DR program is managed by EnerNOC, Inc.

Bernalillo County, New Mexico falls is currently designated as an unclassified/attainment area with a major source threshold for oxides of nitrogen ("NO_x") of 100 tons per year ("tpy").

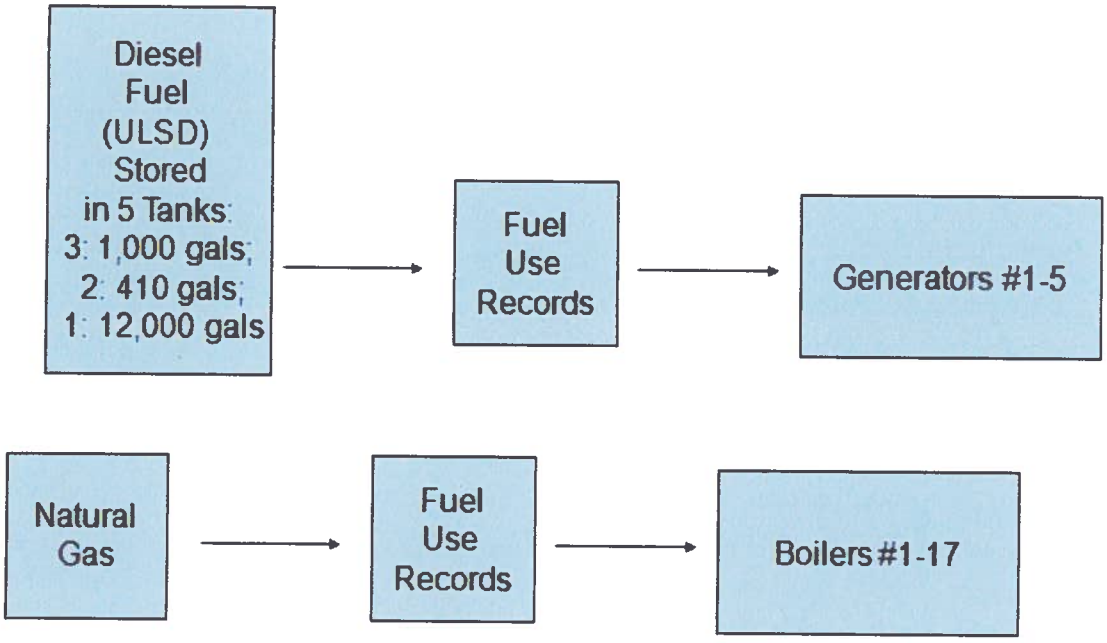
The EPA's NSPS for tanks is 40 CFR 60 Subpart Kb: Subpart Kb—Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. As per §60.110b(a):

> ...the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (m^3) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.

Since the largest fuel tank at Sandia will be the 12,000 gallon tank that is being constructed and this tank has a volume of 45 cubic meters; the tanks do not need to comply with Subpart Kb.

Process Flow Diagrams

The Process Flow Diagrams for the facility's emissions equipment is as follows:



The five generators use ultra low sulfur diesel fuel only (sulfur content 0.0015% or less). The three older generators have their own 1,000 gallon storage fuel tanks. The three older generators were installed prior to June 12, 2006. Thus, the three older generators operate under the EPA RICE NESHAP (40 CFR 63 Subpart ZZZZ). The engines associated with the two newest generators are Tier 2 emergency certified with a manufacture year of 2014; thus, they operate under the EPA New Source Performance Standards (40 CFR 60 Subpart IIII) as emergency engines. The two newest generators each have day tanks sized at 410 gallons each. In addition, a 12,000 gallon storage tank is being added. The boilers use natural gas only.

Tank Details

Day Tanks

Each of the 4,000 kW generators will have 410 gallon day tanks for the ULSD. Attachment 1 provides a schematic showing:

- Generator schematic with the day tank
- Day Tank Detail Sheet
- ACS Fuel Pump System Schematic

12,000 Gallon Tank

Attachment 2 provides:

- Location of proposed 12,000 gallon tank
- Schematic of 12,000 gallon tank
- Steel Tank Example

In addition:

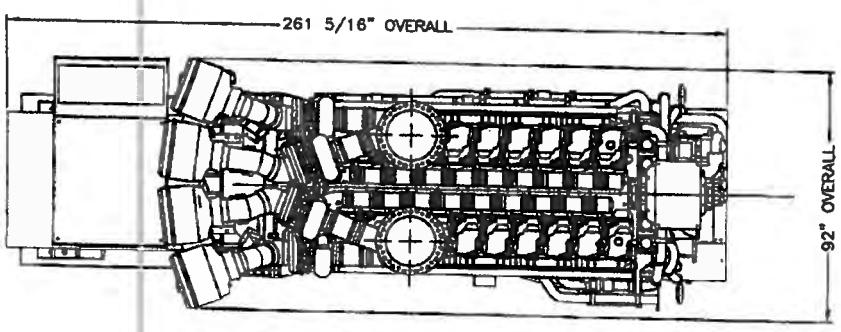
- Fixed roof tank
- Tank Length: 34'1"
- Diameter of vertical cross section: 7'2"
- Tank Shell Height: 8' 9 1/4"
- Liquid Height: 8' (estimated)
- Tank Roof Height: 8' 9 1/4"
- Tank Color: Light Brown

Attachment 1

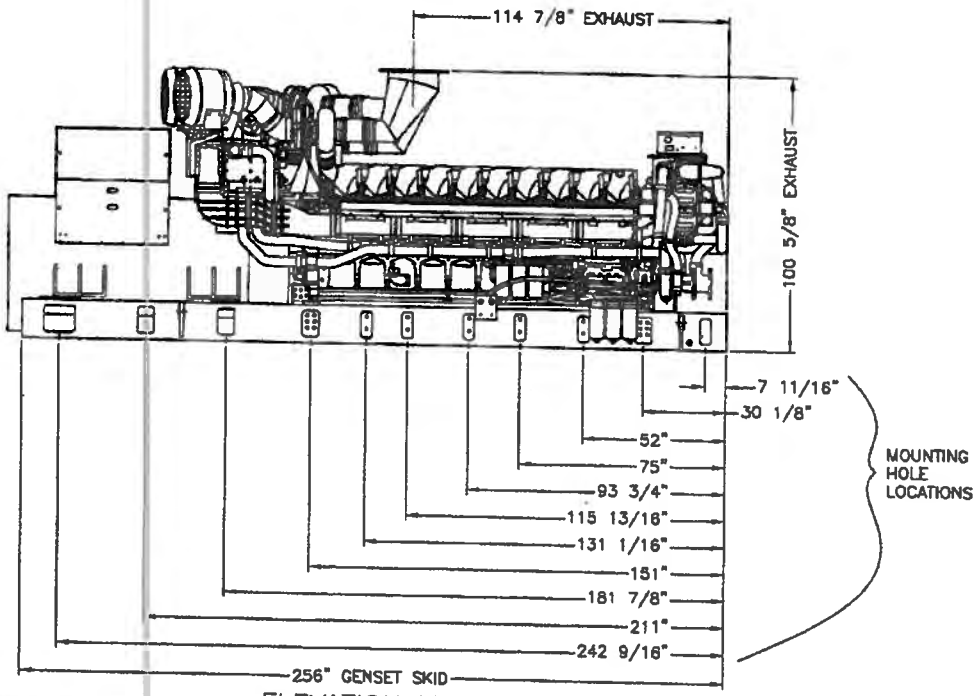
410 Gallon Day Tanks

CATERPILLAR C175-20 4000kW

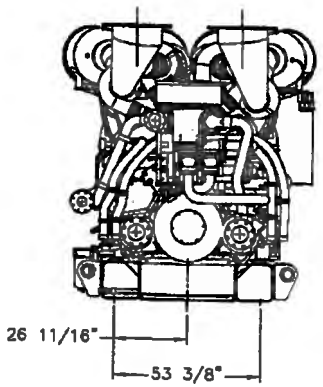
DIMENSIONS TO BE VERIFIED BY CUSTOMER



PLAN VIEW



ELEVATION VIEW



END VIEW
MOUNTING LOCATION

- ☐ APPROVED AS IS – Manufacturing may proceed.
- ☐ APPROVED WITH NOTED CHANGES – Resubmit drawing; manufacturing may proceed.
- ☐ NOT APPROVED – Correct drawing as noted and resubmit for approval before manufacturing begins.

BY: _____ DATE: _____

COMPANY: _____

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

QUOTE NO.: 1403034 REV. 2
PO NO.: 1400316005
WO NO.: TBD
JOB NAME: SANDIA RESORT & CASINO

REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE
C	-		MS	TP	08/08/14
B	-		MS	TP	08/12/14
A	-		MS	TP	08/20/14

ACS MANUFACTURING, INC.
1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

DRAWN	MTS
CHECKED	
ENGINEER	TP
SIZE	C
SCALE	NTS
DATE	08/11/14
SHEET	5 of 5
DRAWING NO.	12214-10
TITLE	CATERPILLAR 4000kW C175-20 GENSET DETAILS
CUSTOMER	WAGNER CAT

NOTES:

1. ENCLOSURE ASSEMBLY:
   a.) FOR A CATERPILLAR 4000kW c175-20 GEN-SET. (12,470V)
   b.) FULLY ASSEMBLED ACOUSTICAL ENCLOSURE TO BE ANCHORED TO THE FOUNDATION.
   c.) PANEL JOINTS ARE SKIP WELDED AND CAULKED.
   d.) WIND LOAD - 120 MPH.
   e.) SEISMIC RATED - ZONE 4 OR EQUAL.
   f.) ROOF LOAD RATING - 40 LBS/SQ.FT.

2. ENCLOSURE CONSTRUCTION:
   a.) SKIN - .125 ALUMINUM SHEET (WALLS).
   .125 ALUMINUM SHEET (ROOF).
   b.) FRAMING - 5052 STRUCTURAL ALUMINUM CHANNEL & TUBING.
   c.) INNER LINER - PERFORATED ALUMINUM SHEET.
   d.) INSULATION - MINERAL WOOL PROTECTED BY 2 MIL POLY COVERING WALLS AND ROOF.
   e.) DOORS - TWO (2) SINGLE ACCESS AND TWO (2) DOUBLE ACCESS SERVICE DOORS WITH 316 S/S HINGES & REFRIGERATOR STYLE DOOR LATCHES w/INSIDE RELEASE.
   f.) FIXED INTAKE LOUVER ASSEMBLY (ALUMINUM CONSTRUCTION).
   g.) INTAKE BAFFLE PANELS (ALUMINUM CONSTRUCTION).
   h.) INTAKE MOTORIZED DAMPERS (ALUMINUM CONSTRUCTION - CD50).
   i.) DISCHARGE BAFFLE PANELS (ALUMINUM CONSTRUCTION).
   j.) DISCHARGE MOTORIZED DAMPERS- w/WEATHERPROOF MOTOR COVERS (ALUMINUM CONSTRUCTION - CD50).
   k.) EXTERNAL DISCHARGE HOOD - (ALUMINUM CONSTRUCTION).

3. DESIGN CONSTRUCTION:
   a.) AIR FLOW RATES;
   COMBUSTION - 11,975 CFM
   b.) PRESSURE DROPS;
   INLET & DISCHARGE LOUVERS/BAFFLES 0.5" W.G. OR LESS (TOTAL).
   c.) PERFORMANCE;
   DESIGNED TO REDUCE THE GEN-SET EQUIPMENT NOISE LEVEL TO 85 dBA WHEN MEASURED AT A DISTANCE OF 23 FEET FROM THE ENCLOSURE AND 5 1/2 FEET ABOVE GRADE.
   (PROVIDING THE EQUIPMENT NOISE DOES NOT EXCEED 126 dBA @ 3 FEET).

4. PAINTING:
   a.) ALL EXTERIOR ALUMINUM SURFACES TO BE POWER TOOL CLEANED PER SSPC-SP3 AND PAINTED AS FOLLOWS;
   * PRIMER - ONE COAT AMERON 370 (3-5 MILS DFT).
   * FINISH - ONE COAT OF DURATHANE DTM (3-5 MILS DFT).
   * ENCLOSURE INTERIOR WALL AND ROOF SURFACES WILL NOT BE PAINTED.
   b.) ALL CARBON STEEL SURFACES TO BE POWER TOOL CLEANED PER SSPC-SP3 AND PAINTED AS FOLLOWS;
   * PRIMER - ONE COAT AMERON 370 (3-5 MILS DFT).
   * FINISH - ONE COAT OF DURATHANE DTM (3-5 MILS DFT).
   c.) COLOR- T.B.D.

5. ELECTRICAL: SEE 12214-10E.

6. QUANTITY REQUIRED.
   a.) TWO (2) GEN-SET ENCLOSURE ASSEMBLIES
   b.) TWO (2) DAY TANK ASSEMBLIES

7. ESTIMATED WEIGHTS ARE AS FOLLOWS:
   a.) ENCLOSURE ASSEMBLY INCLUDING EXHAUST & ELECTRICAL - 26,000 LBS
   b.) DAY TANK ASSEMBLY - 1,400 LBS

8. ESTIMATED SHIPPING SIZES:
   a.) ENCLOSURE ASSEMBLY - 551"L x 164"W x 161"H
   b.) DAY TANK ASSEMBLY - 96"L x 32"W x 68"H

9. ACS CONTACT INFORMATION

SALES: TIMMY BRENT
TELEPHONE: 903.462.2030
E-MAIL: timmy.brent@acsmanufacturing.com

SALES: PHILIP MACHA
TELEPHONE: 903.462.2008
E-MAIL: phillip.macha@acsmanufacturing.com

PROJECT MANAGER: TONY PELLMAN
TELEPHONE: 903.462.2028
E-MAIL: tony.pellman@acsmanufacturing.com

*CUSTOMER TO VERIFY ALL NOTES AND DIMENSIONS

☐ APPROVED AS IS - Manufacturing may proceed.

☐ APPROVED WITH NOTED CHANGES - Resubmit drawing; manufacturing may proceed.

☐ NOT APPROVED - Correct drawing as noted and resubmit for approval before manufacturing begins.

BY: _____ DATE: _____

COMPANY: _____

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

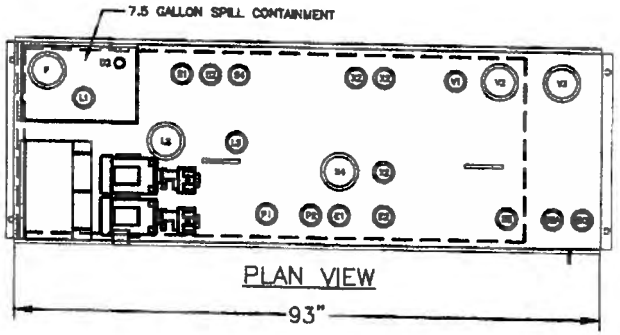
QUOTE NO.: 1403034 REV. 2
PO NO.: 140031ED05
WO NO.: T.B.D.
JOB NAME: SANDIA RESORT & CASINO

PROPRIETARY NOTICE

REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE
C	-	SEE OTHER SHEETS	MS	TP	08/18/14
B	-	SEE OTHER SHEETS	MS	TP	08/18/14
A	-	ADDED DISCHARGE DAMPER MOTOR COVERS	MS	TP	08/28/14

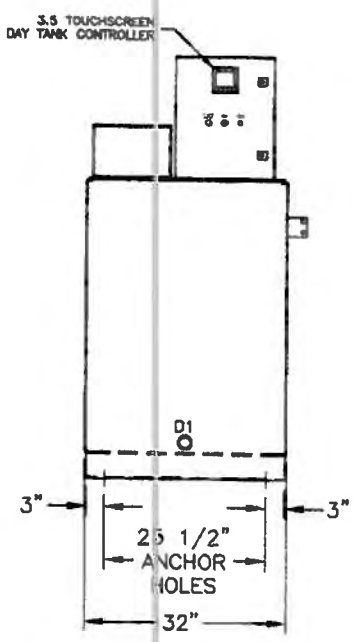
ACS MANUFACTURING, INC.
1601 COMMERCE BLVD. DENISON, TEXAS - 75020

TOLERANCES	± 0.125
	± 1/8°
	± 3°
SCALE	1 TO 1
DATE	08/11/14
	WAGNER CAT
	ACOUSTICAL ENCLOSURE TEXT SHEET
	12214-10
DRAWN BY	MTS
ENGINEER BY	TP
SHEET	1 of 8
REV.	C

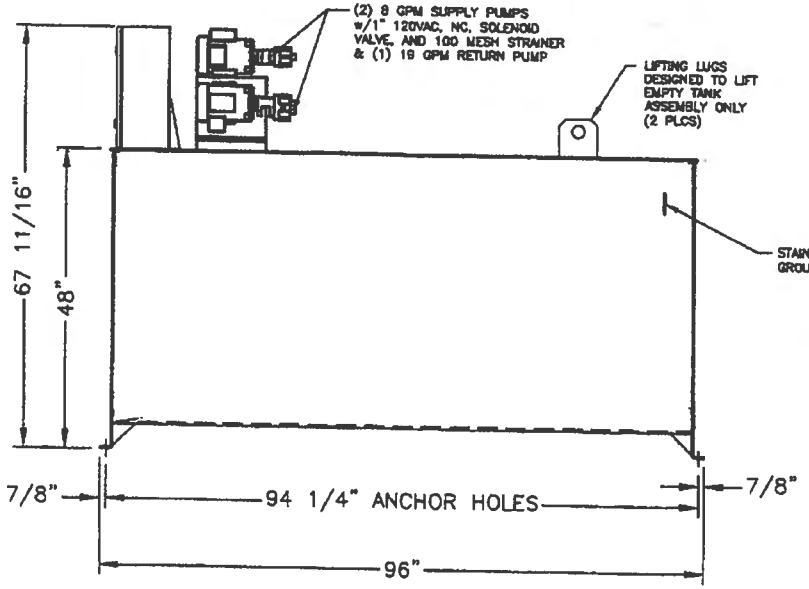


REF.	FITTING SIZE	DESCRIPTION
D1	1" NPT	SECONDARY FUEL TANK DRAIN
D2	3/4" NPT	SPILL CONTAINMENT TANK DRAIN w/T-HANDLE
E1	2" NPT	ENGINE FUEL SUPPLY - 1-1/2" NPT WITH DIP TUBE
E2	2 NPT	ENGINE FUEL RETURN - 1-1/2" NPT WITH DIP TUBE
F	4" NPT	FUEL FILL w/2" SCREW ON CAP
L1	2" NPT	FUEL LEVEL GAUGE - DIRECT SITE READ
L2	4" NPT	FUEL LEVEL SENSOR - ECHOPOD 4-20mA (WIRED TO DTC)
L3	2" NPT	REDUNDANT FUEL LEVEL SENSOR - (PUMP ON) - 33%, (PUMP OFF) 92% WIRED TO DTC (NON-ADJUSTABLE FLOAT)
P1	2" NPT	PUMP IN - 1" NPT WITH DIP TUBE
P2	2" NPT	PUMP OUT - 1" NPT WITH DIP TUBE
S1	2" NPT	LOW LEVEL SWITCH - NC - 35% (WIRED TO GCP)
S2	2" NPT	HIGH LEVEL SWITCH - NC - 90% (WIRED TO GCP)
S4	2" NPT	CRITICAL HIGH LEVEL SWITCH - NC - 95% (WIRED TO DTC)
S5	2" NPT	LEAK DETECTOR FLOAT SWITCH - NC (WIRED TO DTC)
S5A	2" NPT	LEAK DETECTOR FLOAT SWITCH - NO (WIRED TO GCP)
SX3	2" NPT	SPARE FITTING - SECONDARY (1)
V1	2" NPT	NORMAL VENT - PRIMARY - w/INLINE CRITICAL HIGH SWITCH VENT TO BE EXTEND ABOVE ROOF LINE AT LEAST 12' ABOVE GRADE (PIPES TO SHIP LOOSE)
V2	4" NPT	EMERGENCY VENT - PRIMARY
V3	4" NPT	EMERGENCY VENT - SECONDARY
X2	2" NPT	SPARE FITTING - PRIMARY (3)
X4	4" NPT	SPARE FITTING - PRIMARY (1)

* EXTEND TANK ALARMS TO REACH GENSET CONTROL PANEL VIA FLEX CONDUIT



END VIEW



ELEVATION VIEW

410 GALLON CAPACITY / 360 GALLON USABLE
U.L. 142 STAND ALONE FUEL TANK

☐ APPROVED AS IS - Manufacturing may proceed.

☐ APPROVED WITH NOTED CHANGES - Resubmit drawing; manufacturing may proceed.

☐ NOT APPROVED - Correct drawing as noted and resubmit for approval before manufacturing begins.

BY: _____ DATE: _____

COMPANY: _____

RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

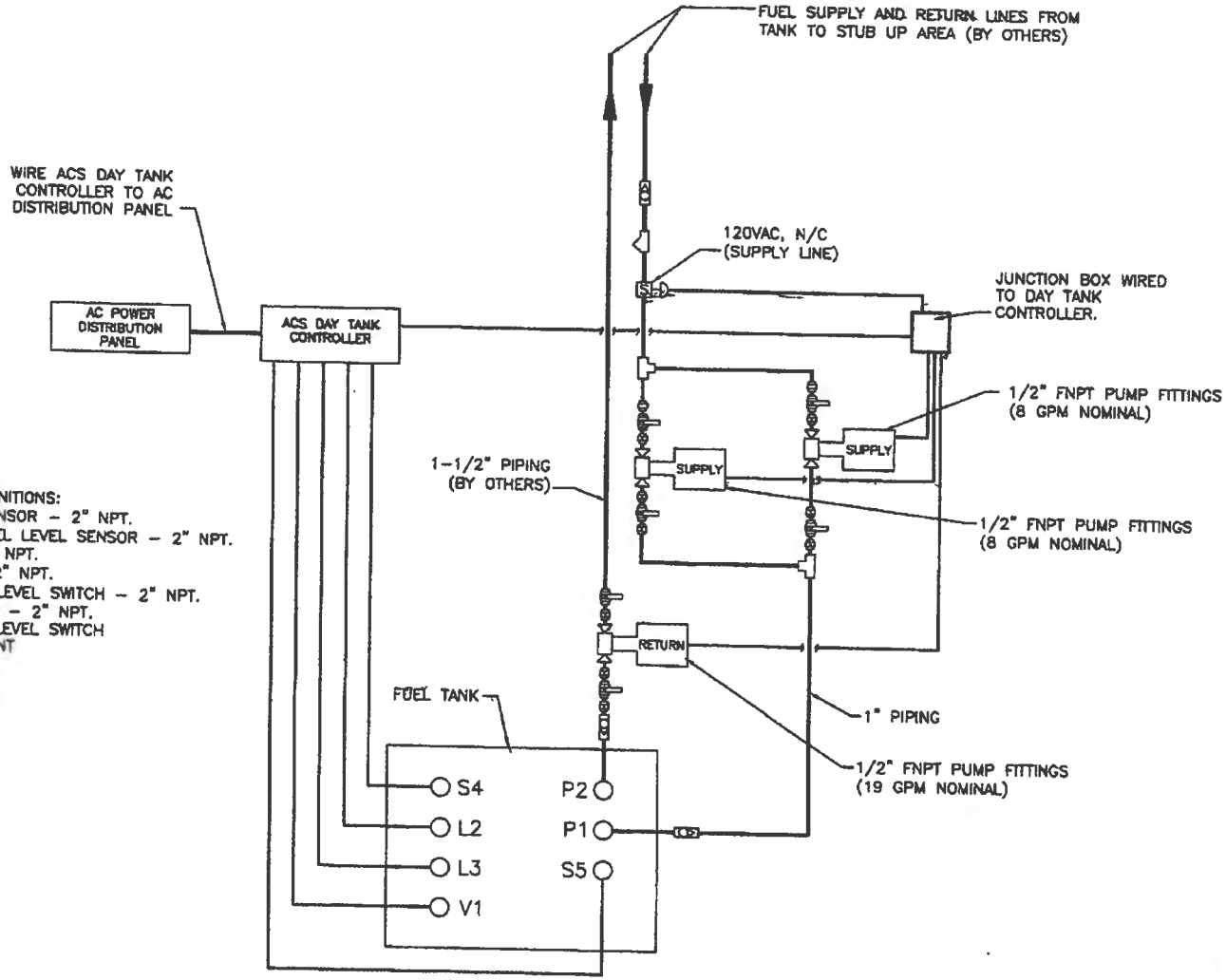
QUOTE NO.: 1403034 REV. 2
PO NO.: 1400316005
WO NO.: TBD
JOB NAME: SANDIA RESORT & CASINO

PROPRIETARY NOTICE

REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE
C	-	RELOCATED PUMP PORTS AND GROUND LUG	MS	TP	08/18/14
B	-	MD LD DSI SPILL CONTAINMENT	MS	TP	08/15/14
A	-	UPDATED PUMP SIZE AND QUANTITY	MS	TP	08/25/14

ACS MANUFACTURING, INC.
1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

DRAWN BY	MTS
CHECKED BY	
APPROVED BY	TP
TOLERANCES UNLESS NOTED: DECIMAL ± 0.125, FRACTIONAL ± 1/8", ANGULAR ± 3°	
SCALE	1 TO 1
DATE	08/19/14
TITLE	WAGNER CAT DAY TANK DETAIL SHEET
DRAWING NUMBER	12214-10
SHEET	3 of 5
REV	C



LEGEND	
SYMBOL	DESCRIPTION
	1" WYE STRAINER
S	1" N/C SOLENOID VALVE
	BALL VALVE
	PIPE UNION
	CHECK VALVE
	TEE FITTING

NOTES:
1. TANK PORT LABEL DEFINITIONS:
   - -L2 – FUEL LEVEL SENSOR – 2" NPT.
   - -L3 – REDUNDANT FUEL LEVEL SENSOR – 2" NPT.
   - -P1 – PUMP IN – 2" NPT.
   - -P2 – PUMP OUT – 2" NPT.
   - -S4 – CRITICAL HIGH LEVEL SWITCH – 2" NPT.
   - -S5 – LEAK DETECTOR – 2" NPT.
   - -V1 – CRITICAL HIGH LEVEL SWITCH IN NORMAL VENT

ACS FUEL PUMP SYSTEM SCHEMATIC

SCALE: NONE

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BY: _____ DATE: _____

COMPANY: _____

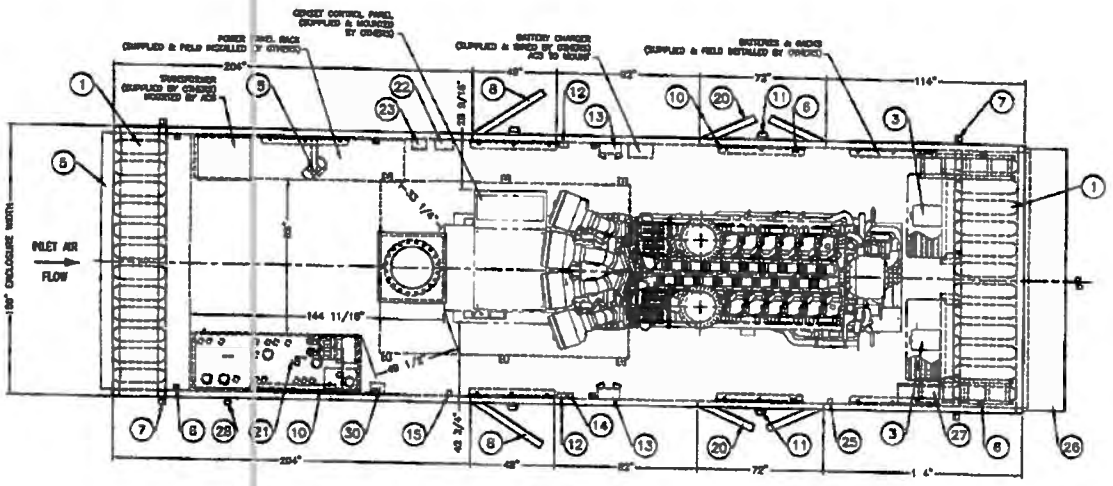
RETURNED APPROVAL DRAWINGS WITH SIGNATURE REQUIRED BEFORE ACS WILL BEGIN MANUFACTURING PROCESS

QUOTE NO.: 140031ED05
PO NO.: 1403034 REV. 2
WO NO.: T.B.D.
JOB NAME: SANDIA RESORT & CASINO

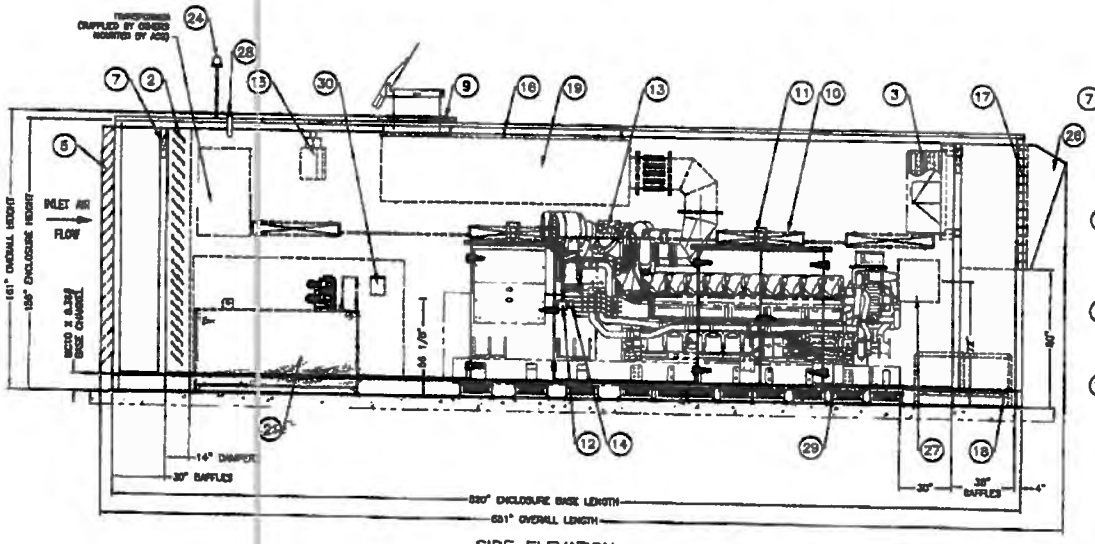
REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE
C	–	PIPING FROM STUB UP TO TANK BY OTHERS	NS	TP	08/18/14
B	–	REVISED SCHEMATIC AND NOTES	NS	TP	08/15/14
A	–	UPDATED PUMP SIZES AND QUANTITIES	MS	TP	08/28/14

ACS MANUFACTURING, INC.
1601 COMMERCE BLVD. - DENISON, TEXAS - 75020

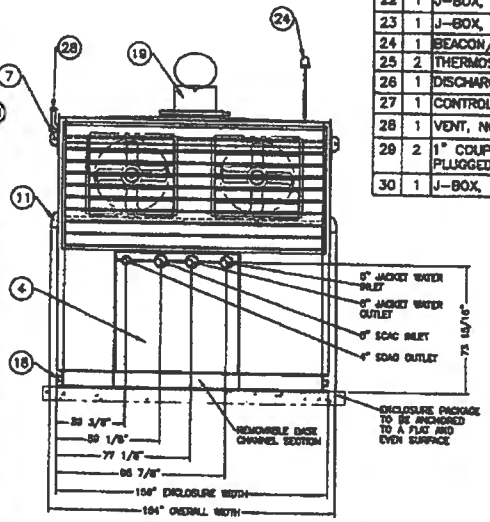
DRAWING TOLERANCES	± 0.125
FRACTIONS	± 1/8
ANGLES	± 5°
SCALE	NTS
DATE	08/19/14
WAGNER CAT	
DAY TANK CONTROLLER PIPING SCHEMATIC	
12214-10	
DRAWN BY	MTS
ENGINEERED BY	
APPROVED BY	TP
SHEET	4 OF 5
REV	C



PLAN VIEW



SIDE ELEVATION



END VIEW

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION
1	24	BAFFLE PANELS WITH MINERAL WOOL
2	1	INLET MOTORIZED DAMPER ASSEMBLY – ALUM. CD50
3	2	DISCHARGE VENT FAN ASSEMBLY – 41,000 CFM
4	1	INSULATED GLAND PLATE PANEL (RADIATOR PIPING)
5	1	INLET LOUVER ASSEMBLY
6	10	D-RING, GALVANIZED (PERSONNEL TIE-OFF POINTS)
7	4	ENCLOSURE LIFTING LUG (SIDE MOUNT)
8	2	48" X 78" SINGLE ACCESS DOOR w/BOND STRAP (SINGLE SEAL) & 316 S/S HARDWARE
9	1	S/S EXHAUST WEATHER CAP
10	8	INTERIOR LIGHT FIXTURE, LED (T8)
11	4	EXTERIOR LIGHT FIXTURE, RAB LED
12	2	LIGHT SWITCH, INTERIOR LIGHTS & RECEPTACLE
13	2	EMERGENCY LIGHT FIXTURE (2-HEAD) w/BATTERY BACK-UP
14	1	LIGHT SWITCH, EXTERIOR LIGHTS
15	1	SPACE HEATER, w/WALL MOUNTED THERMOSTAT
16	3	MUFFLER SUPPORT CHANNEL
17	1	DISCHARGE MOTORIZED DAMPER ASSEMBLY w/WEATHERPROOF MOTOR COVERS
18	2	S/S GROUNDING PAD w/STRAP
19	3	COMPLETE EXHAUST SYSTEM: SUPER CRITICAL GRADE MUFFLER, FLEX, TAILPIPE, RAINCAP, NBG KITS & BLANKETS FOR FLEX & EXHAUST COLLECTOR
20	2	72" X 78" DOUBLE ACCESS DOOR w/BOND STRAP (SINGLE SEAL) & 316 S/S HARDWARE
21	1	FUEL TANK, 410 GALLON CAPACITY w/DAY TANK CONTROLLER & SUPPLY/RETURN PUMPS
22	1	J-BOX, 120/208V (FOR CUSTOMER CONNECTION)
23	1	J-BOX, 480V (FOR CUSTOMER CONNECTION)
24	1	BEACON/ALARM, GENERATOR
25	2	THERMOSTAT, DISCHARGE VENT FAN
26	1	DISCHARGE WEATHER HOOD
27	1	CONTROLLER, DISCHARGE VENT FAN
28	1	VENT, NORMAL – FUEL TANK (EXTENDED OUTSIDE OF ENCLOSURE)
29	2	1" COUPLING, OIL & COOLANT DRAINS (BALL VALVES INSIDE, PLUGGED OUTSIDE
30	1	J-BOX, FUEL TANK SWITCHES

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QUOTE NO: 1403034 REV. 2
PO NO.: 140031E00S
WO NO.: TBD
JOB NAME: SANDIA RESORT & CASINO

PROPRIETARY NOTICE

REV	ECO NUMBER	DESCRIPTION	BY	APPD	DATE
C	–	DELETED 2" COUPLING, UPDATE PIPING GLAND	MS	TP	08/18/14
B	–	UPDATED RADIATOR PIPING LOCATIONS	MS	TP	08/15/14
A	–	ADDED ADDITIONAL LIGHTING & REMOVABLE CHANNEL	MS	TP	08/28/14

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160 COMMERCE BLVD. DENISON, TEXAS - 75020

DIMENSION UNLESS OTHERWISE SPECIFIED: DECIMAL ±0.125, FRACTIONAL ±1/8, ANGULAR ± 3°, SCALE 1:1, DATE 08/19/14

WAGNER CAT

ACOUSTICAL GEN-SET ENCLOSURE ASSEMBLY

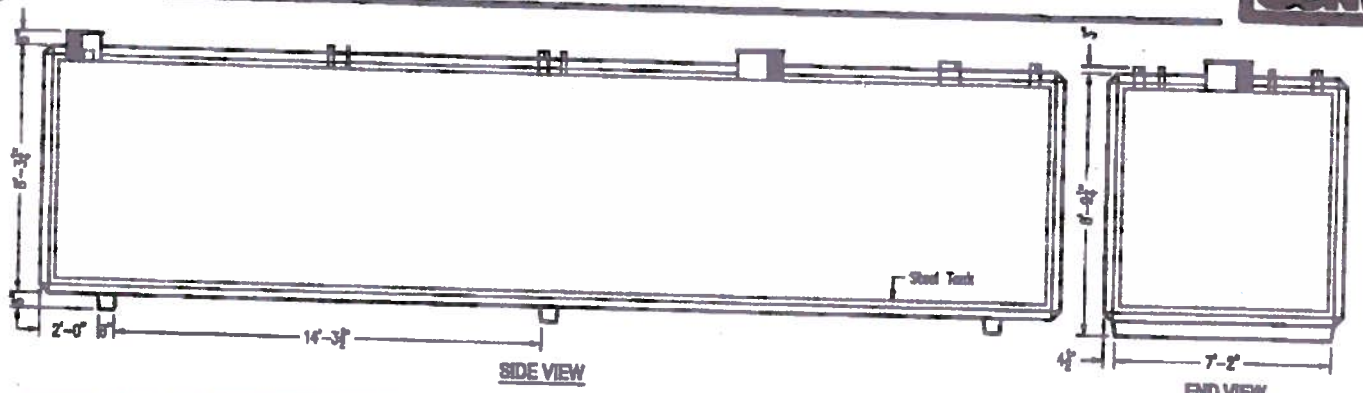
Material number 12214-10

DRAWN BY MTS | CHECKED BY | ENGINEER BY TP | SHEET 2 of 5 | REV C

Attachment 2

12,000 Gallon Tank

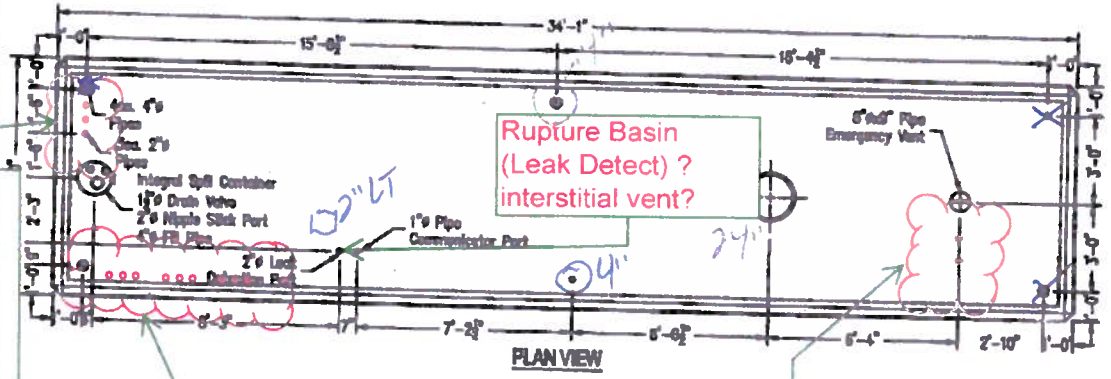
12,000 Gallon ConVault Tank



2085 Listed
"Protected" Type

Please provide details for platform and stairs.

12" c/c



3x2" Fuel Level Transmitter, Fuel Level Gauge, Spare ports. Move rupture basin leak detect here for ease of wiring.

Rupture Basin (Leak Detect) ? interstitial vent?

12" CL

24"

4"

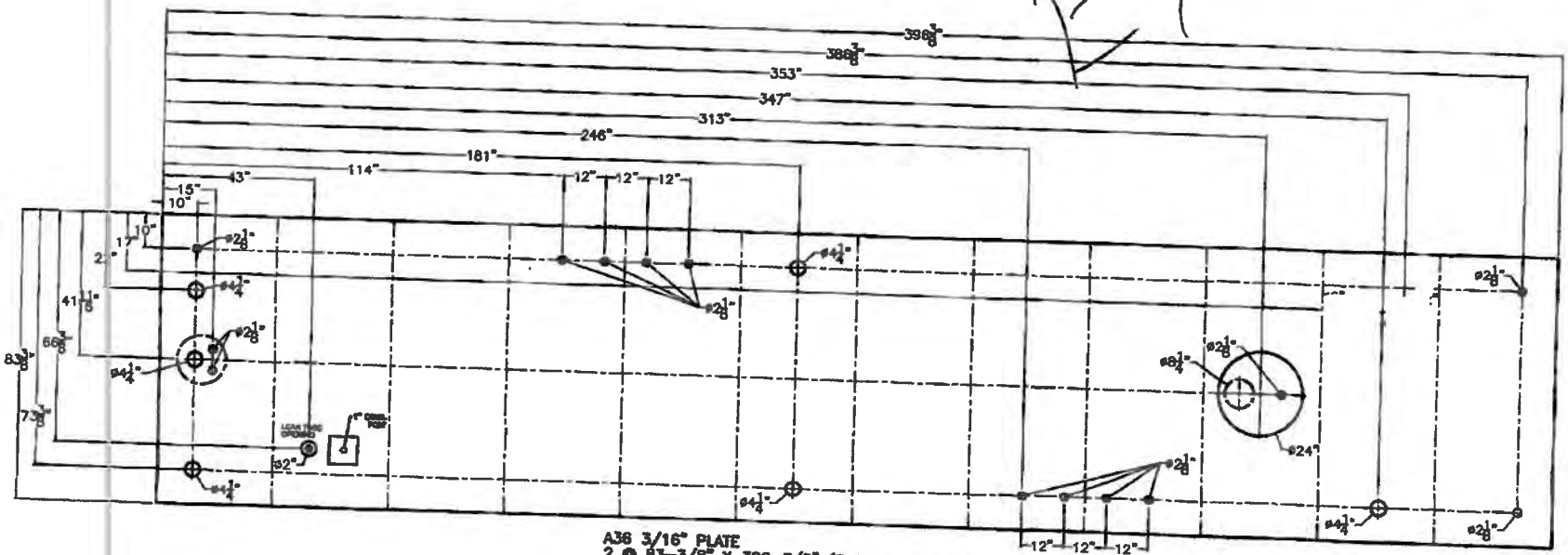
9-8"

EG-4, EG-5, EG-6 3x1.5" Supply, Return, Overflow ports(9 total)

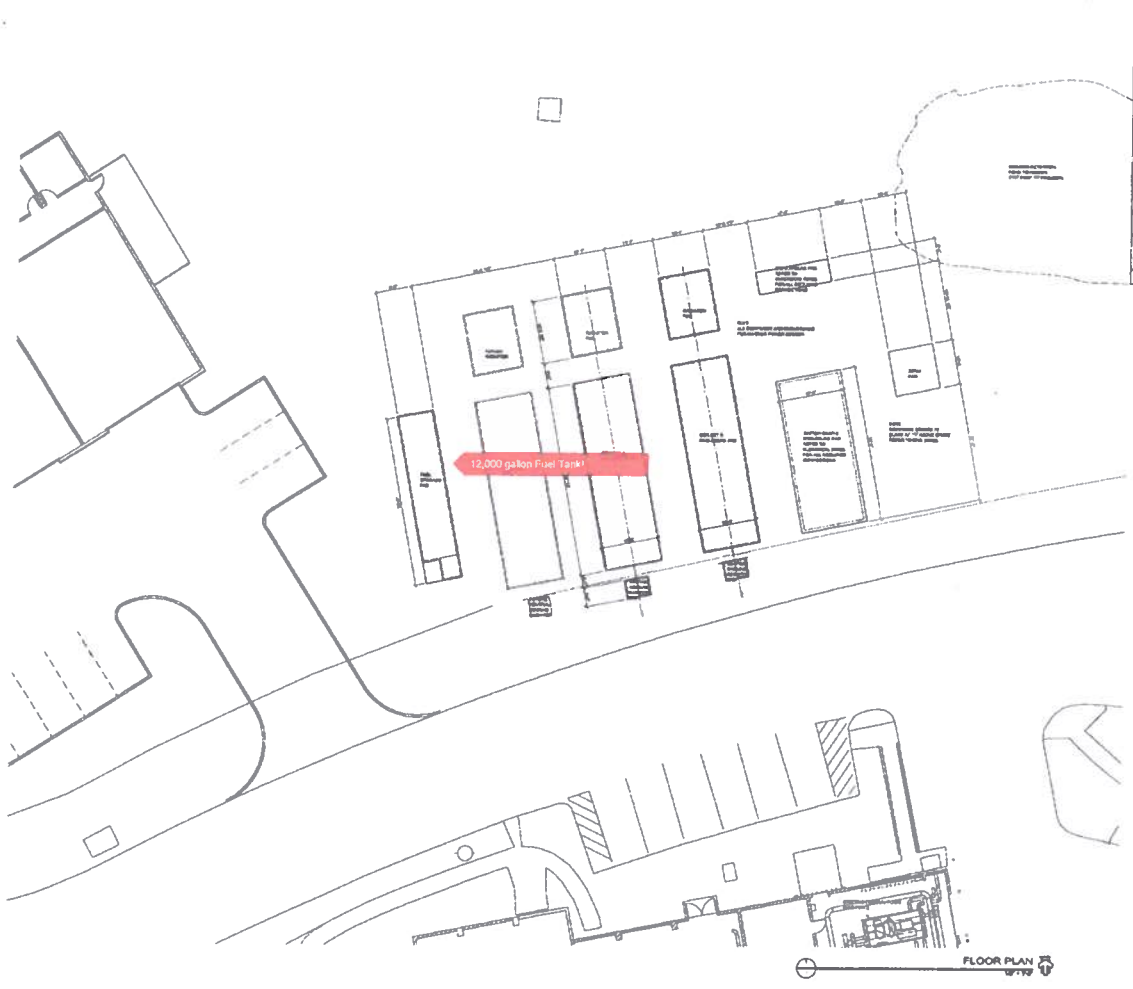
Expansion Vent? Group all vents in-line for support if needed.

Oldcastle Precast

STEEL TANK EXAMPLE



A36 3/16" PLATE
2 ● 83-3/8" X 398-3/8" (BURN 1 PER DRWG)
2 ● 86" X 396-3/8"
2 ● 86" X 82-1/4"



GENERAL NOTES

yws

CENTRAL PLAN
FLOOR PLAN

ELECTRICAL INFRASTRUCTURE

ARCHITECTURAL