



**Environmental Health Department
Air Quality Program
Interoffice Memorandum**



Tim Keller, Mayor

Sandra K. Begay, Director

To: Permit File
From: Regan Eyerman, Environmental Health Scientist
Date: November 15, 2019
Subject: Permit #0359-M4 and Certificate of Registration, Airs #NM/001/00092, Facility ID: FA0003737; Record ID: PR0009860

Location: Coreslab Structures (Albuquerque) Inc., 2800 2nd St. SW, Albuquerque, NM 87102, UTMN: 3880319 UTME: 349102

Proposal: Coreslab Structures (Albuquerque) Inc. has submitted a construction permit application to the Air Quality Program (Program) of the City of Albuquerque Environmental Health Department for modification to Construction Permit #359-M2-RV1, for their concrete batch plant. The Program received the application on June 10, 2019 and additional information on October 24, 2019 and November 6, 2019. The owner of this facility is **Coreslab Structures**, 2800 2nd Street SW, Albuquerque, NM 87102. This application file has been assigned **Permit Application No. 359-M4**.

The concrete batch plant facility is located at 2800 2nd St. SW in Albuquerque, New Mexico. The modification proposes to add a 300 gallon above-ground gasoline tank, an additional storage silo for white cement and (2) 2459 lbs/hr aggregate blasters. The modification also requests changing the contents of an existing storage silo from cement to densified silica fume and removing (2) boilers. The existing permit includes storage bins, conveyors, a haul road, a sand and gravel hopper, a cement hopper, (2) mixers, (3) storage silos and (6) natural gas fired boilers.

Based on Program communications with Mr. Greg Krause, General Manager of Coreslab Structures (Albuquerque) Inc., about the property across 2nd St from the facility, the property is not being used to support production.

Applicability: *Source Registration, 20.11.40.6 NMAC*
Any source which emits more than 2000 lbs of any air contaminant per year must obtain a Registration Certificate from the Program.

Construction Permit, 20.11.41 NMAC

20.11.41.2.B.(2) – Applicable as the applicant will be adding equipment and adding activities with potential emission rates, 10 pounds per hour or 25 tons per year or more of a regulated air contaminant.

20.11.41.2.C.(1) – Applicable as the applicant will be installing equipment which is subject to 20.11.64 NMAC.

Permit Fees, 20.11.2 NMAC

Permit application review fees:

20.11.2.19.A.(1) – Modification of existing permits for proposed sources with a proposed allowable emission rate equal to or greater than 1 ton per year and less than 5 tons per year: \$839.00.

20.11.2.18.D(3) – Review fee for 40 CFR 63 standards is \$1119.00.

The Program received proof of payment of \$1958 on July 16, 2018 for their initial application (#359-M3) to modify permit #359-M2-RV1. This application was later withdrawn but the Program decided to apply the fee to a new application submittal.

Note: CPI Adjusted fees are shown and went into effect January 1, 2018.

Annual emissions fee:

20.11.2.21.B – Sources shall pay a minimum annual emissions fee of \$212.00 flat or \$50.00 per ton, whichever is greater.

Note: CPI Adjusted fees are shown and went into effect January 1, 2019.

General Provisions, 20.11.1 NMAC

Emission Standards For Hazardous Air Pollutants For Stationary Sources, 20.11.64 NMAC

20.11.64.12 – **INCORPORATION OF FEDERAL STANDARDS CODIFIED AT 40 CFR PART 63:** Except as otherwise provided, the National Emissions Standards for Hazardous Air Pollutants for Source Categories including the General Provisions thereto, promulgated by the United States Environmental Protection Agency and codified at 40 CFR Part 63, as amended in the Federal Register through July 1, 2004, are hereby incorporated as Air Quality Control Board Regulations of the Albuquerque/Bernalillo County Air Quality Control Board.

- This facility is subject to the requirements of the Federal National Emissions Standard for Hazardous Air Pollutants (NESHAP) found in 40 CFR 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities as well as the general requirements of 40 CFR 63 Subpart A – General Provisions. The permittee shall comply with the specific requirements of Subpart CCCCCC applicable to new gasoline dispensing facilities.

Visible Air Contaminants, 20.11.5 NMAC

20.11.5.12 -- No person shall cause or allow visible emissions from any source to exceed 20 percent opacity, 6 minute timed average.

Ambient Air Quality Standards, 20.11.8 NMAC

Stationary sources must demonstrate compliance with the Federal and State ambient concentration standards specified in 20.11.8.13 NMAC.

Fugitive Dust Control, 20.11.20 NMAC

20.11.20.12.A – No person shall allow fugitive dust, track out, or transported material from vehicle traffic areas and haul roads to be carried beyond the property line, right-of-way, easement or any other area under control of the person generating or allowing the fugitive dust. To mitigate fugitive dust, all inactive disturbed surface areas must be stabilized and maintained in stable condition by the owner, operator, or person responsible for maintenance of the disturbed surface. Additionally, as cited in the permit application, some sections of the haul roads shall be paved and maintained as specified by 20.11.20.23.A and B NMAC.

Administration, Enforcement, Inspection, 20.11.90 NMAC

20.11.90.13.A- The owner or operator of any stationary source of an air contaminant shall, upon notification by the Director, maintain records of the nature and amounts of emissions, to which an air quality control emission regulation applies, from the source and any other information as may be deemed necessary by the Director to determine whether the source is in compliance with applicable regulations.

20.11.90.13.E-The Director shall establish a periodic visual surveillance system to detect and investigate apparent violations of visible emission limitations and such complaints relating to apparent violations of the regulations as may occur.

20.11.90.14.A-Upon request of the Director, the person responsible for the emission of air contaminants for which limits are established by the 20.11 NMAC rules shall provide such facilities, utilities, and openings exclusive of instrument and sensing devices, as may be necessary for the proper determination of the nature, extent, quantity and degree of such air contaminants. Such facilities may be either temporary or permanent at the discretion of the person responsible for their provisions; and shall be suitable for determination consistent with emission limits established in these Parts.

Public Notice: Public notice for this permit was published on July 22, 2019 and ran through August 21, 2019. Comments on the submittal were received from Ms. Marla Painter, President of Mountain View Community Action, via email on July 12, 2019. A request for a Public Information Hearing (PIH) was received from Ms. Esther Abeyta, a resident of San Jose Neighborhood Association, on August 17, 2019.

Compliance:

1. Fencing/barriers shall be installed and maintained restricting access to the property;
2. The concrete batch plant (process equipment units #2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 25) shall be restricted to operate 12 hours per day (7:00 am to 7:00 pm only), Monday through Saturday.
3. The sand and gravel process (process equipment units #2, 3, 4, 5, 6, 7, and 8) shall be restricted to a process rate of 46 tons per hour;
4. The cement, silica fume and fly ash silo offloading (process equipment units #11, 12, 13 and 25) shall each be restricted to a process rate of 25 tons per hour;
5. The natural gas-fired boilers (process equipment units #16, 19, 20 and 21) may operate continuously;
6. The aggregate blasters (process equipment units #23 and 24) shall not operate at the same time;
7. Aggregate blasting shall operate seasonally:
 - i. during the months of October through February, 8am to 5pm, any 6 out of 7 days per week; and,
 - ii. during the months of March through September, 7am to 7pm, any 6 out of 7 days per week.
8. Aggregate blasting media shall not exceed:
 - i. 12,295 lbs daily limit; and,
 - ii. 2,459 lbs hourly limit for 5 hours or spread out over more than 5 hours so as not to exceed 12,295 lbs daily limit.
9. Aggregate blasting media shall be limited to two locations:
 - i. near the southern edge of the property, at least 40 meters away from the property fence to the east; at least 40 meters away from the property fence to the west; and at least 30 meters away from the property fence to the south; and,
 - ii. south and east of the office building, at least 60 meters away from the property fence in any direction.
10. Gasoline throughput shall not exceed 4,500 gallons/year;
11. The permittee shall ensure the applicable requirements of CFR 40 Part 63 Subpart CCCCCC §63.11116 are met as well as the Subpart A – General Provisions of 40 CFR Part 63;

12. Emission units #2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 23, 24 shall not cause or allow visible air emissions that exceed 20 percent opacity for any six (6) minute timed average pursuant to 20.11.5.12 NMAC.
13. All of the emission units shall not exceed the emission limits stated in the emissions table. Tons per year emission limits shall be based on a 12-month rolling period.
14. Record and maintain a daily log for hours of operations of the concrete batch plant. The log shall include the facility daily start time and the facility daily end time.
15. Record and maintain an hourly log for sand and gravel, cement, silica fume and fly ash throughput for the entire facility.
16. Record and maintain a monthly log of the total monthly gasoline throughput.
17. Opacity readings on aggregate blasting shall initially be performed daily:
 - i. the visual determination of fugitive emissions shall be performed at the fence line or property boundary nearest to the abrasive blasting operation;
 - ii. opacity readings for aggregate blasting shall be done in accordance with Method 22 - "Visual determination of fugitive emissions from material sources and smoke emissions from flares";
18. The permittee shall notify the Department in writing of:
 - i. The annual (January 1 through December 31) hours of operation for the concrete batch plant by March 15 every year;
 - ii. The annual (January 1 through December 31) throughput of sand, gravel, cement, silica fume and flyash for the concrete batch plant by March 15 every year; and,
 - iii. The annual (January 1 through December 31) throughput of gasoline by March 15 every year.
19. Compliance tests have not been imposed at this time.

Actions Taken:

- 1/17/2019 Request received from application to cancel Permit Application #359-M3
- 4/17/2019 Received Permit Application #359-M4
- 5/17/2019 Application ruled incomplete
- 6/10/2019 Updated application received
- 7/10/2019 Application ruled complete
- 7/12/2019 Comments received by Marla Painter
- 8/17/2019 Request for PIH received by Esther Abeyta
- 10/9/2019 Meeting at facility to discuss application
- 10/24/2019 Updated application received
- 11/5-6/2019 Application supporting documentation received

Annual Fees: Pursuant to Permit Fees, 20.11.2.21.B NMAC, annual fee of \$400 (8 tpy @ \$50.00 per ton)

Emission Unit Number	Emission Unit Description	NOx tpy	CO tpy	VOC tpy	SO ₂ tpy	PM10 tpy
1	Haul Road	--	--	--	--	0.12
2	Sand/Gravel Hopper	--	--	--	--	0.15
3	Incline Truss Conveyor Belt	--	--	--	--	0.04
4	Shuttle Conveyor	--	--	--	--	0.04
5	Storage Bins (6)	--	--	--	--	0.15
6	Weigh Belt Conveyor	--	--	--	--	0.08
7	Incline Truss Conveyor Belt	--	--	--	--	0.08
9	Mixer # 1 With Dust Collector	--	--	--	--	0.01
10	Mixer # 2 With Dust Collector	--	--	--	--	0.01
11	Cement Silo With Baghouse	--	--	--	--	0.003
12	Silica Fume With Baghouse	--	--	--	--	0.003
13	Flyash Silo With Baghouse	--	--	--	--	0.003
15	Cement Hopper	--	--	--	--	0.04
16	Boiler # 1	0.11	0.09	0.007	0.0007	0.01
19	Boiler # 4	1.53	1.29	0.08	0.005	0.1
20	Boiler # 5	0.77	0.64	0.04	0.005	0.06
21	Boiler # 6	0.11	0.09	0.007	0.0007	0.01
22	Emergency Pile	--	--	--	--	0.05
23	Aggregate blaster	--	--	--	--	2.25
24	Aggregate blaster	--	--	--	--	
25	White Cement Silo with Baghouse	--	--	--	--	0.003
26	Above-ground Gasoline Tank	--	--	0.14	--	--
Total = 8 tons		3	2	0	0	3

Process Equipment Table

Process Equipment Unit	Unit Description	Manufacturer	Model Number	Serial Number	Date of Mfg. Equipment	Rated Process Capacity	Unit Subject To NSPS
1	Haul Road	N/A	N/A	N/A	N/A	N/A	N/A
2	Sand/Gravel Hopper	Shop Built	Shop Built	Shop Built	July 1999	15 ton capacity	No
3	Incline Truss Conveyor Belt	Advanced Concrete Technologies, Inc.	24" x 140'	Unknown	July 1999	325 tph	No
4	Shuttle Conveyor	Advanced Concrete Technologies, Inc.	24" x 25'	Unknown	July 1999	325 tph	No
5	Storage Bins (6)	Advanced Concrete Technologies, Inc.	N/A	Unknown	July 1999	325 ton capacity	No
6	Weigh Belt Conveyor	Advanced Concrete Technologies, Inc.	N/A	Unknown	July 1999	1,000 tph	No
7	Incline Truss Conveyor Belt	Advanced Concrete Technologies, Inc.	42" x 163'	Unknown	July 1999	1,000 tph	No
8	2-Way Diverter Head	Advanced Concrete Technologies, Inc.	2-Way	Unknown	July 1999	1,000 tph	No
9	Mixer # 1 With Dust Collector	Advanced Concrete Technologies, Inc.	3750-PCS	N/A	July 1999	3.3 yd ³	No
10	Mixer # 2 With Dust Collector	Advanced Concrete Technologies, Inc.	3750-PCS	N/A	July 1999	3.3 yd ³	No
11	Cement Silo With Baghouse	Advanced Concrete Technologies, Inc.	N/A	N/A	July 1999	100 ton capacity	No
12	Silica Fume Silo With Baghouse	Advanced Concrete Technologies, Inc.	N/A	N/A	July 1999	100 ton capacity	No
13	Flyash Silo With Baghouse	Advanced Concrete Technologies, Inc.	N/A	N/A	July 1999	100 ton capacity	No
14	Cement Screw Conveyors (6)	Advanced Concrete Technologies, Inc.	ZF 219-73	N/A	July 1999	60 tph each	No
15	Cement Hopper	Shop Built	Shop Built	Shop Built	July 1999	27 tph	No
16	Boiler # 1	Vapor Energy	500	0355	2001	0.5 MMBtu/hr	No
19	Boiler # 4	Kemco System	70/4B	97-027	1997	7 MMBtu/hr	No
20	Boiler # 5	Johnson Gas	SP 3500	7057EV	1998	3.5 MMBtu/hr	No
21	Boiler # 6	Vapor Energy	500	8-417-E-85	1985	0.5 MMBtu/hr	No
22	Emergency Pile	N/A	N/A	N/A	N/A	N/A	No
23	Aggregate blaster	Clemco Industries Corp.	Clemco Classic Blaster	453989	2008	2459 lbs/hr	No
24	Aggregate blaster	Clemco Industries Corp.	Clemco Classic Blaster	M65E-1287	2017	2459 lbs/hr	No

Process Equipment Unit	Unit Description	Manufacturer	Model Number	Serial Number	Date of Mfg. Equipment	Rated Process Capacity	Unit Subject To NSPS
25	White Cement Silo with Baghouse	N/A	N/A	N/A	Unknown	60 ton capacity	No
26	Above-ground Gasoline Tank	N/A	N/A	N/A	Unknown	300 gallons capacity	No

Air Pollution Control Equipment

Process Equipment #	Type of Control Equipment	Manufacturer	Model Number	Serial Number	Rated Process Rate	Control Efficiency
9	Dust Collector	Advanced Concrete Technologies, Inc.	N/A	N/A	N/A	98%
10	Dust Collector	Advanced Concrete Technologies, Inc.	N/A	N/A	N/A	98%
11	Pulsejet Baghouse	Silotop Zero	N/A	N/A	1,500 ACFM	99.5%
12	Pulsejet Baghouse	Silotop Zero	N/A	N/A	1,500 ACFM	99.5%
13	Pulsejet Baghouse	Silotop Zero	N/A	N/A	1,500 ACFM	99.5%
25	Pulsejet Baghouse	Silotop Zero	N/A	N/A	1,500 ACFM	99.5%

**Table A
Actual Emissions
Silos**

Controlled emissions for PM10 and PM2.5 have been calculated based on the baghouse manufacturer's technical specification sheet. The particulate dust emissions from the baghouse system are <1 mg/Nm³. The "N" implies normal conditions of 0° C and 101.325 KPa. The 'k' constant multipliers used for PM10 is 0.13 and the PM2.5 multiplier is 0.03 and comes from AP-42 (6/06) Section 11.12-4 Equation Parameters for Central Mix Operations. The flowrate through each silo is 1500 ft³/m. Controls are based on annual throughput per silo of 15,000 tons for 25 tph and a 1.5 safety factor = 15,000 tons/25 tph x 1.5 = 900 hr/yr.

Emission Unit Number	Emission Factor	Emission Calculation	Emission Rate Each lbs/hour	Emission Rate Each tons/year
11, 12, 13 and 25	PM ₁₀ 1 mg/m ³	[1 mg/m ³] [1500 ft ³ /min][0.3048 m/ft] ³ [lb/453,600 mg][60 min/hr] = 0.006 lb/hr [0.006 lb/hr][900 hr/yr][1 ton/2000 lbs] = 0.003 tpy	0.006	0.003
	PM _{2.5} [0.03/0.13] mg/m ³	[(0.03/0.13) mg/m ³] [1500 ft ³ /min][0.3048 m/ft] ³ [lb/453,600 mg][60 min/hr] = 0.001 lb/hr [0.001 lb/hr][900 hr/yr][1 ton/2000 lbs] = 0.0006 tpy	0.001	0.0006

**Table B
Actual Emissions
Abrasive Blasters**

Controlled emissions for PM10 and PM2.5 have been calculated with AP-42 (9/97) Section 13.2.6 Abrasive Blasting. Starting with the total PM emissions factor of 55 lb/1000 lbs abrasive for a 10 mph wind speed, it is multiplied by 24% based on a study to account for an abrasive blasting medium of grit rather than sand.¹

This results in a total PM emissions factor of 55 x 0.24 = **13.2 lb/1000 lbs grit abrasive**. To determine the emissions factor for PM₁₀ and PM_{2.5} particulate size distribution testing of coal slag found in another study was used.² Controls are based on daily limit of blasting media of 12,295 lbs for 6 days/week = 3,848,335 lbs/yr.

Emission Unit Number	Emission Factor	Emission Calculation	Emission Rate lbs/hour	Emission Rate tons/year
23 and 24 2459 lb/hr 3,848,335 lbs/yr	PM ₁₀ 13.2 X 0.0887 = 1.17 lb/1000 lb abrasive	[1.17 lb/1000 lb] [2459 lb/hr] = 2.87 lb/hr [1.17 lb/1000 lb][3,848,335 lbs/yr][1 ton/2000 lbs] = 2.25 tpy	2.87	2.25
	PM _{2.5} 13.2 X 0.0063 = 0.08 lb/1000 lb abrasive	[0.08 lb/1000 lb] [2459 lb/hr] = 0.20 lb/hr [0.08 lb/1000 lb][3,848,335 lbs/yr][1 ton/2000 lbs] = 0.15 tpy	0.20	0.15

¹ South Coast Air Quality Management District, *Section 2: Unconfined Abrasive Blasting*, Draft Document, El Monte, CA, September 6, 1988

² Advanced Technology Institute, *Table 2. Residual Risk from Abrasive Blasting Emissions: Particle Size and Metal Speciation*, December, 2005

SIZE DISTRIBUTION TABLE ATTACHED

**Table 2: Size Distribution of Airborne Particles from Dry Abrasive Blasting
Single Particle Optical Scanning (SPOS) Method**

Particle Size, Micron	Cumulative Mass % (all particles less than the size indicated)					
	Barshot	Coal Slag	Copper Slag	Garnet	Steel Grit	Sp. Sand
1.01	0.16	0.19	0.22	0.16	0.33	0.17
2.46	0.37	0.63	0.54	0.37	0.92	0.57
3.93	0.56	1.28	0.85	0.56	1.56	1.13
6.99	1.16	3.89	2.42	1.16	4.56	3.06
10.07	2.11	8.87	7.27	2.11	9.92	6.19
15.29	4.09	18.74	21.47	4.09	17.62	12.00
19.86	6.02	25.59	30.62	6.02	23.15	16.30
24.47	8.46	31.13	36.18	8.46	28.82	20.67
30.16	12.54	36.62	40.98	12.54	35.94	26.89
400	100.00	100.00	100.00	100.00	100.00	100.00

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Table C
Actual Emissions
Above-ground Gasoline Tank

EPA's TANK 4.0.9d emission rate program was used to determine VOC emission rates from the above ground 300-gallon gasoline storage tank (Unit 26). The annual gasoline throughput used was 4500 gallons per year. The emissions report for the annual emissions calculation of 279.7 lbs (0.14 tons) is attached:

EMISSIONS REPORT ATTACHED

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

Emissions Report for: Annual

Coreslab - Horizontal Tank
Albuquerque, New Mexico

Components	Losses(lbs)		Total Emissions
	Working Loss	Breathing Loss	
Gasoline (RVP 10)	41.12	238.55	279.68

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

Identification
User Identification: Coreslab
City: Albuquerque
State: New Mexico
Company: Coreslab
Type of Tank: Horizontal Tank
Description: Coreslab 300 Gallon Gasoline Storage Tank

Tank Dimensions
Shell Length (ft): 6.00
Diameter (ft): 3.00
Volume (gallons): 300.00
Turnovers: 15.00
Net Throughput(gal/yr): 4,500.00
Is Tank Heated (y/n): N
Is Tank Underground (y/n): N

Paint Characteristics
Shell Color/Shade: Aluminum/Diffuse
Shell Condition: Good

Breather Vent Settings
Vacuum Settings (psig): -0.03
Pressure Settings (psig): 0.03

Meteorological Data used in Emissions Calculations: Albuquerque, New Mexico (Avg Atmospheric Pressure = 12.15 psia)

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

Coreslab - Horizontal Tank
Albuquerque, New Mexico

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg	Min	Max		Avg	Min	Max					
Gasoline (RVP 10)	All	65.98	53.54	78.42	58.75	5.8155	4.5676	7.3220	66.0000			92.00	Option 4, RVP=10, ASTM Slope=3

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

Coreslab - Horizontal Tank
Albuquerque, New Mexico

Annual Emission Calculations

Standing Losses (lb)	238 5522
Vapor Space Volume (cu ft)	27 0137
Vapor Density (lb/cu ft)	0 0680
Vapor Space Expansion Factor	0 5199
Vented Vapor Saturation Factor	0 6838
Tank Vapor Space Volume	
Vapor Space Volume (cu ft)	27 0137
Tank Diameter (ft)	3 0000
Effective Diameter (ft)	4 7885
Vapor Space Outage (ft)	1 5000
Tank Shell Length (ft)	6 0000
Vapor Density	
Vapor Density (lb/cu ft)	0 0680
Vapor Molecular Weight (lb/lb-mole)	66 0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	5 8155
Daily Avg. Liquid Surface Temp. (deg. R)	525 6478
Daily Average Ambient Temp. (deg. F)	56 1542
Ideal Gas Constant R (psia cu ft / (lb-mol deg R))	10 731
Liquid Bulk Temperature (deg. R)	518 4242
Tank Paint Solar Absorptance (Shell)	0 6000
Daily Total Solar Insulation Factor (Btu/sqft day)	1 765 3167
Vapor Space Expansion Factor	
Vapor Space Expansion Factor	0 5199
Daily Vapor Temperature Range (deg. R)	49 7633
Daily Vapor Pressure Range (psia)	2 7544
Breather Vent Press. Setting Range (psia)	0 0600
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	5 8155
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	4 5676
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia)	7 3220
Daily Avg. Liquid Surface Temp. (deg. R)	525 6478
Daily Min. Liquid Surface Temp. (deg. R)	513 2069
Daily Max. Liquid Surface Temp. (deg. R)	538 0886
Daily Ambient Temp. Range (deg. R)	27 9250
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor	0 6838
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	5 8155
Vapor Space Outage (ft)	1 5000
Working Losses (lb):	41 1236
Vapor Molecular Weight (lb/lb-mole)	66 0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	5 8155
Annual Net Throughput (gal/yr.)	4 500 0000
Annual Turnovers	15 0000
Turnover Factor	1 0000
Tank Diameter (ft)	3 0000
Working Loss Product Factor	1 0000
Total Losses (lb):	279 6758