
# Filing Receipt

**Filing Date - 2023-08-15 04:12:14 PM**

**Control Number - 54462**

**Item Number - 20**

**DOCKET NO. 54462**

| | | |
|---|---|---|
| **APPLICATION OF ORANGE COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO 1 TO AMEND ITS CERTIFICATES OF CONVENIENCE AND NECESSITY IN ORANGE COUNTY** | §<br>§<br>§<br>§<br>§ | **PUBLIC UTILITY COMMISSION OF TEXAS** |

**ORANGE COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 1'S SUPPLEMENTAL FILING TO ITS PETITION TO AMEND ITS CERTIFICATES OF CONVENIENCE AND NECESSITY IN ORANGE COUNTY**

**COMES NOW**, Orange County Water Control and Improvement District No. 1 (Applicant) files this Supplemental Filing to its Petition to Amend its Certificates of Convenience and necessity and would show the following:

## I. BACKGROUND

Applicant filed an application to amend its certificates of convenience and necessity in Orange County. On January 13, 2023, the Administrative Law Judge (ALJ) issued Order No. 2 finding the application was administratively incomplete, establishing deadlines and opportunity to cure. ALJ ordered Applicant to cure the deficiencies by Monday, February 13, 2023. Thereafter, on February 10, 2023 the ALJ issued Order No. 3 granting Applicant's request for an extension to cure the deficiencies. On May 1, 2023, ALJ issued order No. 5 finding the application administratively incomplete and establishing deadlines and opportunity to cure. Thereafter, the ALG found the application to remain administratively incomplete and requested Applicant to supplement with the requested information.

## II. SUPPLEMENTAL BRIEFING

The Commission Staff requested clarification as to how many customers would be affected by this amendment and whether there were any billing changes. The Applicant has owned the water system serving these customers since 1995 and 1994, respectively and has provided water and/or sewer service to both areas since the time of purchase. This STM application is only a housekeeping matter in order to ensure this area, that the Applicant already serves, is included in its CCN. Therefore, there is no customers affected by the CCN nor are there any proposed billing changes. Additionally, the Board has approved the rates

imposed on these customers because they are the same rates that are imposed on all customers the Applicant currently serves.

Applicant is also including a copy, per Commission Staff request, of the enforcement action information, the oath, and approval of the emergency preparedness plan for review.

## III. CONCLUSION

Applicant respectfully requests the ALJ find its Petition administratively complete now that the correct application has been submitted with supporting documentation.

Dated: August 15, 2023

Respectfully submitted,

**GERMER PLLC**
P.O. Box 4915
Beaumont, Texas 77704
(409) 654-6700 – Telephone
(409) 835-2115 – Facsimile

**Kate K. Leverett**
State Bar No. 24083292
kleverett@germer.com – Email

**COUNSEL FOR THE APPLICANT**

## Applicant's Oath

**STATE OF** Texas

**COUNTY OF** Orange

I, Frank Inzer being duly sworn, file this application to obtain or amend a water or sewer CCN, as Board President

(owner, member of partnership, title as officer of corporation, or authorized representative)

I attest that, in such capacity, I am qualified and authorized to file and verify such application, am personally familiar with the documents filed with this application, and have complied with all the requirements contained in the application; and, that all such statements made and matters set forth therein with respect to Applicant are true and correct. Statements about other parties are made on information and belief. I further state that the application is made in good faith and that this application does not duplicate any filing presently before the Commission.

I further represent that the application form has not been changed, altered, or amended from its original form.
I further represent that the Applicant will provide continuous and adequate service to all customers and qualified applicants within its certificated service area should its request to obtain or amend its CCN be granted.

**AFFIANT**
(Utility's Authorized Representative)

If the Affiant to this form is any person other than the sole owner, partner, officer of the Applicant, or its attorney, a properly verified Power of Attorney must be enclosed.

**SUBSCRIBED AND SWORN BEFORE ME**, a Notary Public in and for the State of Texas **this day the** 30 **of** May , 2023

SEAL

SHERRY SIMON
Notary Public, State of Texas
Comm. Expires 11-18-2024
Notary ID# 13090064-3

**NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS**

Sherry Simon
**PRINT OR TYPE NAME OF NOTARY**

**My commission expires:** 11-18-2024

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 9, 2023

Frank Inzer
Orange County WCID 1
460 E. Bolivar Street
Vidor, Texas 77662

Subject: Affected Utility Emergency Preparedness Plan Review
Orange County WCID 1 - PWS ID No. 1810005
Orange County, Texas

**Confidential***

Dear Mr. Inzer:

The Texas Commission on Environmental Quality (TCEQ) received the enclosed Emergency Preparedness Plan (EPP) on February 1, 2022. The EPP was submitted pursuant to the requirements of Texas Water Code (TWC) §13.1394 because this water system meets the definition of an affected utility. Based on the EPP, you have selected option number(s):

- one (1) for the use of permanently installed automatically starting generators.

Based on our review of the EPP and the supplemental information received on February 15, 2023, the submitted EPP is **approved** with an implementation deadline of July 1, 2022. Please note that by submitting and implementing the approved EPP, the affected utility indicates that it will be able to maintain pressures at a minimum of 20 pounds per square-inch (psi) throughout its distribution system during extended power outages lasting more than 24 hours and that water services will be reestablished as soon as it is safe and practicable following the occurrence of a natural disaster.

A copy of this letter and the enclosures must be maintained on file at the affected utility and must be made available to TCEQ staff for review during investigations.

* TWC §13.1394(l) provides that "information provided by an affected utility under this section is confidential and is not subject to disclosure under Chapter 552, Government Code."

Should you have additional questions, comments, or need for further assistance, please contact the Water Supply Division at 512-239-4691, or by e-mail to PDWEPP@tceq.texas.gov.

Sincerely,

Jennelle Crane

Jennelle Crane, Assistant Deputy Director
Water Supply Division
Texas Commission on Environmental Quality

JC/ej/wg/db

Enclosure(s): Approved EPP
Generator Approval

cc: Chris Serres, General Manager, Orange County Water Control & Improvement District #1, 460 E. Bolivar, Vidor, Texas, 77662

TCEQ Beaumont Regional Office - R10

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

May 9, 2023

Frank Inzer
Orange County WCID 1
460 E. Bolivar Street
Vidor, Texas 77662

Re: Orange County WCID 1 - Public Water System ID No. 1810005
Proposed Emergency Generator(s)
Orange County, Texas

**Confidential***

Dear Mr. Inzer:

The Texas Commission on Environmental Quality (TCEQ) received the Emergency Preparedness Plan (EPP) on February 1, 2022, with the proposed generator(s). Based on our review of the information submitted, the submittal generally meets the minimum requirements of Title 30 Texas Administrative Code (TAC) Chapter 290 - Rules and Regulations for Public Water Systems and the proposed generators are **approved**.

The submitted Emergency Preparedness Plan included the following:

- Caterpillar 350, 350 kW, Diesel, Well Site #7
- Baldor SB2S-650, 250 kW, Diesel, Well Site #5
- Caterpillar D200-2, 200 kW, Diesel, Well Site #4

Any additional facility components contained in the EPP were not considered for approval. The authorization provided in this letter does not relieve a Public Water System from the need to comply with other applicable state and federal regulations. Please note all other planning material must be submitted to the Plan Review Team for review and approval prior to construction and/or use.

A copy of this letter must be maintained on file at the affected utility and must be made available to TCEQ staff upon request for review during investigations.

* TWC §13.1394(l) provides that "information provided by an affected utility under this section is confidential and is not subject to disclosure under Chapter 552, Government Code."

Should you have additional questions, comments, or need for further assistance, please contact the Water Supply Division at 512-239-4691, or by e-mail to PDWEPP@tceq.texas.gov.

Sincerely,

Jennelle Crane

Jennelle Crane, Assistant Deputy Director
Water Supply Division
Texas Commission on Environmental Quality

JC/ej/wg/db

cc: Chris Serres, General Manager, Orange County Water Control & Improvement District #1, 460 E. Bolivar, Vidor, Texas, 77662

TCEQ Beaumont Regional Office – R10

APPROVED
By TCEQ at 8:59 pm, May 07, 2023

# Emergency Preparedness Plan Template

For All Affected Utilities Except Fort Bend and Harris Counties

## Assistance

If you need assistance with the EPP template please fill out the **EPP Help Form at** www.tceq.texas.gov/goto/epp-help and TCEQ will contact you via email or phone to work with you.

## General Information

| | |
|---|---|
| **Water System Name:** | **Orange County Water Control and Improvements District 1** |
| **PWS ID No. (if applicable):** | **1810005** |
| **District No. (if applicable):** | **1** |
| **County:** | **Orange** |
| **CCN No. (if applicable):** | **10115** |
| **Owner:** | **Orange County Water Control and Improvements District No. 1** |
| **Prepared by:** | **Chris Serres** |
| **Preparer's Phone No.:** | **409-769-2669 Extension 108** |
| **Preparer's Email:** | **cserres@ocwc1.com** |
| **Preparer's Mailing Address:** | **460 E Bolivar, Vidor, Texas 77662** |
| **Preparer Title:** | **General Manager** |
| **Preparer's Organization:** Chris Serres | **Orange County Water Control & Improvement District No. 1** |
| **Expected Completion Date** | **02/15/2023** |

## Option(s) Chosen:

1. Refer to Section III-ALTERNATE POWER OPTIONS OVERVIEW.
   Circle **all** Option(s) that will provide emergency operations during extended power outages lasting more than 24 hours for this affected utility.

   (1) 2A 2B 3A 3B 4 5 6 7 8A 8B 9 10A 10B 11 12 13 14

2. Short Explanation of Proposed Emergency Preparedness Plan (i.e. *Using portable generator to power 2 out of 3 wells*): On Site Generators to power all 3 well sites.

3. Will this plan provide for 20 pounds per square inch (psi) of pressure to all your direct customers during a power outage lasting more than 24 hours caused by a natural disaster? Yes

I certify, under penalty of law, that all the information provided herein is true and accurate to the best of my knowledge.

Signature: Chris Serres Title General Manager Date 02/15/2023

## UPDATES TO EMERGENCY PREPAREDNESS PLAN (EPP)

The EPP is updated as changes occur such as dictated by personnel, phone numbers, water plant additions, modifications, and serving additional water systems.

**Record updates below:**

| Last Updated By | Title | Purpose (page #s) | On (Date) |
|---|---|---|---|
| | | | |

| Last Updated By | Title | Purpose (page #s) | On (Date) |
|---|---|---|---|
| | | | |
| | | | |

# SECTION I – INTRODUCTION

## 1. APPLICABILITY

This emergency preparedness plan template was developed for the operators and administrators of affected utilities to comply with the requirements for "affected utilities" in Texas Water Code, Section 13.1394 as required by Senate Bill 3 (SB 3) and to demonstrate the affected utility's ability to provide emergency operations during extended power outages lasting **more than 24 hours**.

An ***affected utility*** is a retail public utility, exempt utility, or provider or conveyer of potable or raw water service that furnishes water service to more than one customer, provides overnight accommodations, and **is not** an affected utility under Texas Water Code, Section 13.1395. An ***extended power outage*** means a power outage lasting more than 24 hours.

**If you believe that you are NOT an affected utility please email PDWEPP@tceq.texas.gov to ensure that the requirements do not apply to the water system.**

**A. Describe Your Water System. Check all that apply.**

☒ **Residential** ☒ **Commercial** ☐ **Industrial** ☐ **Wholesale** ☐ **Institution**

**B. Is This EPP For An ☒ Existing or ☐ Proposed Water System?**

## 2. CONTACT INFORMATION

During any type of emergency, the following person(s) will be responsible for the water system (contact will be attempted in the order indicated):

| Name | Title in the Organization | E-mail | Office Phone Number | Cell Phone Number | Home Phone Number | Other Phone Number |
|---|---|---|---|---|---|---|
| Chris Serres | General Manager | cserres@ocwc1.com | 409-769-2669 | 281-703-9920 | | |
| David LeJune | Operations Manager | dlejune@ocwc1.com | 409-769-2669 | 409-880-2710 | | |
| | | | | | | |
| | | | | | | |

## 3. Location of Maps

The maps are not required to be submitted to TCEQ for review of the EPP but should be available in case of an emergency to enable staff to locate valves, lines, and meters.

Where are your distribution system(s) map(s) located? Administrative Office, 460 E. Bolivar, Vidor, Texas 77662.

## 4. Diagram of Water System

Submit a diagram of your drinking water system that shows all equipment (source(s), tank(s), pumps), treatment chemicals, and any open or closed interconnects with other water systems.

# Section II – DESCRIPTION OF THE WATER SYSTEM

IMPORTANT: Include only the equipment located at your water system, not the equipment located at another water system unless two or more systems rely on each other for emergency purposes and it is documented in a contract or written agreement.

## 1. SOURCE INFORMATION

A. **Does Your Water System Have A Ground Water Well(s)?**
**YES ☒ NO ☐ (If NO, go to 1.B)**

| TCEQ Source ID | Owner's Designation | Well Location | Used During an Emergency? | Pump Capacity |
|---|---|---|---|---|
| TX1810005K | Well Site #7 | 3845 Highway 12 | YES ☒ NO ☐ | 2000 gpm |
| TX1810005C | Well Site #5 | 2497 Highway 1132 | YES ☒ NO ☐ | 2000 gpm |
| TX1810005B | Well Site #4 | 2474 Caney Creek Road | YES ☒ NO ☐ | 1200 gpm |

B. **Does Your Water System Treat Surface Water or Ground Water Under the Influence of Surface Water Sources(s)?** **YES ☐ NO ☒ (If NO, go to 1.C)**

| TCEQ Source ID | Owner's Designation | Intake Location | Used During an Emergency? | Number of Pumps | Total Pump Capacity at Intake |
|---|---|---|---|---|---|
| | | | YES ☐ NO ☐ | | gpm |
| | | | YES ☐ NO ☐ | | gpm |
| | | | YES ☐ NO ☐ | | gpm |

C. **Does Your Water System Purchase (or Receive) Water?**
**YES ☐ NO ☒ (If NO, go to 2.A)**

i. Is this affected utility a direct pressure system? (Does the provider's water flow directly into your distribution system, not into a tank? Direct pressure systems generally have no tanks or pumps.)
**YES ☐ NO ☐**

ii. Does this affected utility re-pressurize the water received from the provider? (Does the water from the provider flow into a tank which is then pumped out into the distribution system by your own pumps?)
**YES ☐ NO ☐**

| Provider Name | PWS ID | Pressure Plane *(if more than 1 plane)* | Will You Rely on This Provider for Water During an Emergency? | Will You Rely on This Provider for Pressure at Your Customer's Connections During an Emergency? | Capacity | Normally Open or Closed Interconnect? |
|---|---|---|---|---|---|---|
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ | gpm | |
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ | gpm | |
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ | gpm | |

## 2. TREATMENT INFORMATION

### A. Does Your Water System Disinfect the Water? YES ☒ NO ☐ (If NO, go to 2.B)

| Disinfectant | Location *(Plant Name)* | Disinfectant Used During an Emergency? | Type of Disinfectant *(Liquid/Gas)* | Volume Stored *(gals or lbs.)* | Days of Storage *(Emergency Demand)* | Electricity Required to Feed Disinfectant? |
|---|---|---|---|---|---|---|
| Chlorine | Well #7 | YES ☒ NO ☐ | Gas | 1 Ton | 30 | YES ☒ NO ☐ |
| Chlorine | Well #5 | YES ☒ NO ☐ | Gas | 1 Ton | 30 | YES ☒ NO ☐ |
| Chlorine | Well #4 | YES ☒ NO ☐ | Gas | 1 Ton | 30 | YES ☒ NO ☐ |

B. Does Your Water System Provide Treatment Other Than Disinfection? YES ☒ NO ☐ (If NO, go to 2.C)

| Chemical | Location *(Plant Name)* | Chemical Used During an Emergency? | Type of Chemical *(Liquid/Gas)* | Volume Stored *(gals or lbs.)* | Days of Storage *(Emergency Demand)* | Electricity Required to Feed Chemical |
|---|---|---|---|---|---|---|
| Phosphate | Well #7 | YES ☒ NO ☐ | Liquid | 300 Gal | 30 | YES ☒ NO ☐ |
| Phosphate | Well #5 | YES ☒ NO ☐ | Liquid | 300 Gal | 30 | YES ☒ NO ☐ |
| Phosphate | Well #4 | YES ☒ NO ☐ | Liquid | 300 Gal | 30 | YES ☒ NO ☐ |

A. Does Your Water System Have Any Service or Transfer Pump(s)? These are the pumps located within the treatment processes of your treatment Plant(s). (Do not include well or intake pumps)

YES ☐ NO ☒ (If NO, go to 3.A)

| Pump | Location *(Plant Name)* | Pump Used During an Emergency? | Equipment Directly Before Pump | Equipment Directly After Pump | Pump Capacity |
|---|---|---|---|---|---|
| | | YES ☐ NO ☐ | | | gpm |
| | | YES ☐ NO ☐ | | | gpm |
| | | YES ☐ NO ☐ | | | gpm |

## A. DISTRIBUTION SYSTEM INFORMATION

A. Does Your Water System Have Distribution Pumps?
YES ☒ NO ☐ (If NO, go to 3.B)

| Pump | Location *(include pressure plane)* | Pump Used During an Emergency? | Equipment Directly Before Pump | Equipment Directly After Pump | Pump Capacity |
|---|---|---|---|---|---|
| 3 - Booster Pumps | Well #7 | YES ☒ NO ☐ | Treatment | None | 800 gpm |
| 3 - Booster Pumps | Well #5 | YES ☒ NO ☐ | Treatment | None | 800 gpm |
| 3 - Booster Pumps | Well #4 | YES ☐ NO ☐ | Treatment | None | 800 gpm |

B. Does Your Water System Have Any Finished Water Storage/Pressurization Tanks?

YES ☒ NO ☐ (If NO, go to 4.A)

| **Tank Type** (*Elevated, Hydropneumatic, Ground or Standpipe*) | **Location** (*include pressure plane*) | **Tank Used During an Emergency?** | **Equipment Directly Before Tank** | **Equipment Directly After Tank** | **Tank Capacity** |
|---|---|---|---|---|---|
| Ground | Well #7 | YES ☒ NO ☐ | Treatment | Booster Pumps | 500,000 gal |
| Ground | Well #5 | YES ☒ NO ☐ | Treatment | Booster Pumps | 411,000 gal |
| Ground | Well #4 | YES ☒ NO ☐ | Treatment | Booster Pumps | 411,000 gal |
| Elevated | N. Tram Road | YES ☒ NO ☐ | Treatment | None | 500,000 gal |
| Elevated | S. Main Street | YES ☒ NO ☐ | Treatment | None | 500,000 gal |

## B. PRESSURE PLANES

Does Your Water System Have More Than One Pressure Plane? YES ☐ NO ☒ (If NO, go to 5)

| Pressure Plane | TCEQ Source ID(s) or Provider PWS ID(s) | Plant Names(s) *(If Applicable)* | Pump Names(s) *(If Applicable)* |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

## C. SYSTEM DEMAND

**Emergency Operation** means the demand in MGD from highest usage within last 3 years, exclude fire events and large water main breaks.

| Demand Information | Normal Operation | Emergency Operation |
|---|---|---|
| Average Daily Demand: | 1.125 MGD | 1.125 MGD |
| Maximum Daily Demand: | 1.780 MGD | 3.381 MGD (Freeze Feb 2021) |
| System Capacity: | 7.488 MGD | 7.488 MGD |

## D. SYSTEM SIZE

A. Does Your Water System Sell/Provide Water to Other Water Systems?

YES ☐ NO ☒ (If NO, go to 6.B)

| Receiver/Buyer Name | PWS ID *(If applicable)* | Normally Open or Normally Closed Interconnect? | Will You Provide 20 psi Throughout the Receiver's Distribution System During an Emergency? | Number of Connections in the Receiver's Water System | Population of the Receiver's Water System |
|---|---|---|---|---|---|
| | | | YES ☐ NO ☐ | | |
| | | | YES ☐ NO ☐ | | |
| | | | YES ☐ NO ☐ | | |

B. Number of Connections and Population in Each Pressure Plane in Your Water System?

(If applicable, include any connections from other water systems you may serve in the table in 6.A)

| Pressure Plane *(if applicable)* | Number of Connections | Population |
|---|---|---|
| OCWCID #1 | Estimated 4,967 | Estimated 14,901 |
| | | |
| | | |

## E. POWER PROVIDER(s)

| | |
|---|---|
| Electric Utility or Retail Electrical Provider(s) | Entergy Texas |

## F. ELECTRICAL SCHEMATIC

Provide an electrical schematic or diagram of your water system's emergency power facilities and the equipment (treatment(s), supply, pressure maintenance, etc.) that is powered.

## G. OTHER PERTINENT SYSTEM INFORMATION

Other information about the system that could be useful during an emergency:

## Section III– Alternate Power Options Overview

The following is a list that will assist in determining which option (or options) should be selected to demonstrate the ability to provide emergency operations during extended power outages lasting more than 24 hours. Provide the required information on the following applicable pages. You must select at least one option and **options (7-13) may require more than one option.**

### OPTION 1: PERMANENTLY INSTALLED AUTOMATIC STARTING AUXILIARY GENERATOR(S)

COMPLETE OPTION 1 – Sections A through C

### OPTION 2A: YOUR SYSTEM WILL RELY ON YOUR PROVIDER DURING AN EXTENDED POWER OUTAGE

The type of systems that will utilize this option are a distribution only system which receives water under direct pressure relying on their provider for water at 20 psi throughout their distribution system. A water system receives water to a tank and re-pressurizes the water to maintain 20 psi in their distribution system may also choose this option. Choose if you will rely on a water provider *during an extended power outage.*
COMPLETE OPTION 2A – Sections A and B

### OPTION 2B: MEMBER OF TXWARN

A **"distribution only" system** may only use this option if it needs certified staff for operational purposes or needs equipment to repair their distribution system. **A distribution only system** will need to choose Option 2A for the purpose of maintaining 20 psi in its distribution system during an extended power outage.
COMPLETE OPTION 2B – Sections A through B

### OPTION 3A: NEGOTIATION OF LEASING AND CONTRACTING AGREEMENTS

Your facility has obtained a leasing or contract agreement for emergency power equipment and fuel. The agreement(s) must provide for coordination with the Texas Division of Emergency Management.
COMPLETE OPTION 3A – Sections A through D

### OPTION 3B: MUTUAL AID AGREEMENT(S) WITH OTHER WATER PROVIDERS

Your facility is a member of another mutual aid provider, you have identified, and will make available one or more resources with another mutual aid provider. Your facility has obtained mutual aid agreement(s) for emergency power equipment and fuel with other water providers including retail, exempt, potable, or raw water providers. The agreement(s) must provide for coordination with the Texas Division of Emergency Management.
COMPLETE OPTION 3B – Sections A through B

### OPTION 4: USE OF PORTABLE GENERATOR(S) CAPABLE OF SERVING MULTIPLE FACILITIES EQUIPPED WITH QUICK-CONNECT SYSTEMS

A portable generator capable of being moved to serve multiple facilities where both the portable generator and facilities are equipped with compatible quick-connect systems.
COMPLETE OPTION 4 – Sections A through D

### OPTION 5: USE OF ON-SITE ELECTRICAL GENERATION OR DISTRIBUTED GENERATION FACILITIES

On-site electrical generation or distributed generation facilities. On-site electrical generation means that each facility generates, or can generate, its own power rather than being powered by a commercial electric power grid. Distributed Generation Facilities are small-scale power producing facilities located near the electrical load, which may feed into a common grid. An example is electricity generated by solar power.
COMPLETE OPTION 5 – Sections A through D

### OPTION 6: HARDENING THE ELECTRIC TRANSMISSION AND DISTRIBUTION SYSTEM SERVING THE WATER SYSTEM

One alternative is to relocate electric transmission lines for the system from overhead to underground and protect them from strong winds. Another alternative is to replace overhead transmission lines, poles and rated appurtenances with ones that can withstand historical hurricane-force wind velocities, and trim or remove any trees or branches next to and above the overhead transmission lines.

COMPLETE OPTION 6 – Sections A and B

## OPTION 7: USE AND MAINTENANCE OF DIRECT ENGINE OR RIGHT-ANGLE DRIVES

Direct engine or right-angle drive. This option is only available to existing facilities, **may** require more than one option, and must still provide 20 psi throughout the distribution system.
COMPLETE OPTION 7 – Sections A through C

## OPTION 8A: DESIGNATION OF THE WATER SYSTEM AS A CRITICAL LOAD FACILITY

Your water system is registered with your electric provider as a critical load facility, this **will** require more than one option, and must provide 20 psi throughout the distribution system (see page 19 for additional information on the requirement for a second option). Will require documentation from your electric provider indicating your facility is protected from power loss lasting more than 24 hours.
COMPLETE OPTION 8 – Sections A and B

## OPTION 8B: RECOGNITION OF THE WATER SYSTEM AS HAVING REDUNDANT, ISOLATED, OR DEDICATED ELECTRICAL FEEDS

Your water system has redundant, isolated, or dedicated electrical feeds to water plant(s) and equipment, this **will** require more than one option, and must provide 20 psi throughout the distribution system (see page 21 for additional information on the requirement for a second option). Will require documentation from your electric provider indicating your facility is protected from power loss lasting more than 24 hours.
COMPLETE OPTION 8B – Sections A and C

## OPTION 9: PROVIDE WATER STORAGE CAPABILITIES

Your water system has sufficient ground, elevated, or standpipe storage to provide your entire distribution system with water at 20 psi during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.
COMPLETE OPTION 9 – Sections A and E

## OPTION 10A: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING AN EMERGENCY INTERCONNECT

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.
COMPLETE OPTION 10 – Sections A and F

## OPTION 10B: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING A WATER HAULER

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.
COMPLETE OPTION 10 – Sections A and H

## OPTION 11: WATER SYSTEM HAS THE ABILITY TO PROVIDE WATER THROUGH ARTESIAN FLOWS

An affected utility can provide water using an approved artesian source to their distribution system at 20 psi during an extended power outage lasting more than 24 hours. This option **will** need to be combined with another option (see page 28 for additional information on the requirement for a second option).
COMPLETE OPTION 11 – Sections A and E

## OPTION 12: REDUNDANT INTERCONNECTIVITY BETWEEN PRESSURE ZONES

An affected utility opens valves in one or more pressure zones within their water system to provide water at 20 psi in all pressure zones throughout its entire distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option.
COMPLETE OPTION 12 – Sections A and D

## OPTION 13: USE EMERGENCY WATER DEMAND RULES TO MAINTAIN EMERGENCY OPERATIONS

An affected utility will provide a minimum of 0.35 gallons per minute (gpm) per connection to the distribution system while maintaining distribution pressures of at least 20 psi in the event of the loss of normal power supply. This option **will** need to be combined with other option(s) to ensure 20 psi during a water outage lasting more than 24 hours (see page 30 for additional information on the requirement for a second option).

COMPLETE OPTION 13 – Sections A and D

## OPTION 14: ANY OTHER ALTERNATIVE DETERMINED BY THE COMMISSION TO BE ACCEPTABLE

An affected utility can propose other alternatives of meeting the requirements of TWC 13.1394 if the alternative(s) ensure water will be provided at 20 psi throughout the distribution system during a water outage lasting more than 24 hours.

COMPLETE OPTION 14 – Sections A and B

# Section IV– Alternate Power Options Details

## OPTION 1: PERMANENTLY INSTALLED AUXILIARY GENERATOR(S)

**A. Generator Specifications.**

Please list **all** the generators, **all** equipment to be powered, and the power needs for each piece of equipment.

| Generator Brand & Model | Max Power (KW)** | Phase | Fuel Type | Automatic Switch Gear? | Facility Staffed 24 hours a day, 7 days a week? | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements for Each Facility and Treatment Unit Powered** |
|---|---|---|---|---|---|---|---|
| Well Site #7 Caterpillar Model No. 350 | 350 | 1 ☐ 2 ☐ 3 ☒ | Diesel | YES ☐ NO ☒ | YES ☐ NO ☒ | Well pump 1 | 186kW |
| | | | | | | Booster pump 1 | 37kW |
| | | | | | | Booster pump 2 | 37kW |
| | | | | | | Booster pump 3 | 37kW |
| | | | | | | Air Stripper | 30kW |
| | | | | | | Miscellaneous | 10kW |
| Well Site #5 Baldor SB2S-650 | 250 | 1 ☐ 2 ☐ 3 ☒ | Diesel | YES ☐ NO ☒ | YES ☐ NO ☒ | Well pump 1 | 75kW |
| | | | | | | Booster pump 1 | 37kW |
| | | | | | | Booster pump 2 | 37kW |
| | | | | | | Booster pump 3 | 37kW |
| | | | | | | Miscellaneous | 10kW |
| Well Site #4 Caterpillar Model D200-2 | 200 | 1 ☐ 2 ☐ 3 ☒ | Diesel | YES ☐ NO ☒ | YES ☐ NO ☒ | Well pump 1 | 56kW |
| | | | | | | Booster pump 1 | 37kW |
| | | | | | | Booster pump 2 | 37kW |
| | | | | | | Booster pump 3 | 37kW |
| | | | | | | Miscellaneous | 10kW |
| **The generator's total KWs cannot be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. ** | | | | | | | |

**B. Fuel Location**

i. Physical Location of Fuel Supply (GPS or "911" address): .

Fuel is stored in tanks located under each generator.

Well Site #7: 30° 9'17.51"N, 93°58'11.25"W

Well Site #5: 30° 9'9.19"N, 93°58'58.30"W

Well Site #4: 30° 9'31.87"N, 94° 0'53.89"W

**C. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed.**

i. How much fuel is stored on site? Well #7 – 1,000 Gal
Well #5 – 650 Gal
Well #4 – 395 Gal

ii. How much fuel does the generator use per hour? (Attachment C may assist in determining that amount) Well Site #7 – 25 Gal/hr
Well Site #5 – 18 Gal/hr
Well Site #4 – 14 Gal/hr

iii. Does the water system have access to diesel additive to prevent fuel from freezing? Yes

## OPTION 2A: YOUR SYSTEM WILL RELY ON YOUR PROVIDER DURING AN EXTENDED POWER OUTAGE

Choose only if you will rely on purchased water *during an extended power outage.* Your current contract and or provider *agree* to provide you with water during an extended water outage at a pressure of 20 psi in distribution.

| Provider Name | PWS ID | PRESSURE PLANE | Will you rely on this provider for water to a tank during an emergency? | Will you rely on this provider for pressure at YOUR customer's connections during an emergency? |
|---|---|---|---|---|
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ |
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ |
| | | | YES ☐ NO ☐ | YES ☐ NO ☐ |

A. **Is your water system solely relying on a provider(s) for emergency operations? (This means, the provider's water flows directly into your distribution system, and not into a tank, and you have no tanks or pumps)**

☐ **YES (If yes, you must submit documentation under 2A.i. listed below.)**

☐ **NO** (Please fill out the pages for the alternative power option that will power the equipment)

i. Please provide **one or more** of the following:

☐ A copy of the contract(s) with your provider(s) that includes language guaranteeing 20 psi throughout your distribution system or specific pressure plane. Please tab the page and highlight the section in the contract guaranteeing pressure.

☐ A letter from the provider(s) including language guaranteeing 20 psi throughout your distribution system or specific pressure plane.

☐ Page(s) from the provider's EPP which includes the connection count for your system (or pressure plane) in the provider's connection count.

☐ An engineering study (hydraulic analysis) sealed by a Texas Licensed Professional Engineer demonstrating that the provider is capable, of providing your entire distribution system with water services at a minimum of 20 psi.

ii. Does your water system operate any equipment such as booster disinfection that will need power during an emergency?

☐ **YES** (Please fill out the pages for the alternative power option that will power the equipment)

☐ **NO**

B. **Does your water system re-pressurize the water received from the provider? (Does the water from the provider flow into a tank which is then pumped out into the distribution system by your own pumps?)**

☐ **YES** (Please fill out the pages for the alternative power option that will power the equipment)

☐ **NO**

## OPTION 2B: CONTRIBUTING MEMBER OF TXWARN

Member has identified needed resource(s) to the TXWARN system. Installation of a quick connect system is required with this option. **A "distribution only" system may not use this option to maintain 20psi in distribution.**

**A. Please provide ALL of the following items**

☐ A copy of the TXWARN membership profile page.

☐ A copy of the mutual aid agreement with TXWARN (Applicable to Investor/Privately Owned Water systems)

☐ A local government entity is covered by the Texas Statewide Mutual Aid System as stated in the Texas Government Code Section 418.111 Subchapter E (Applicable to Cities, Counties, and Districts)

**B. Generator specifications**

Please list the items hoped to be obtained from TXWARN. List **all** equipment to be powered, and the power needs for each piece of equipment.

| Generator | Power (KW) | Quick Connect Installed? | Phase | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements of Each Facility and Treatment Unit Powered |
|---|---|---|---|---|---|
| | | YES ☐ | 1 ☐ | Well pump 1 ☐ | kW |
| | | NO ☐ | 2 ☐ | Well pump 2 ☐ | kW |
| | | Date to be installed | 3 ☐ | Well pump 3 ☐ | kW |
| | | | | Booster pump 1 ☐ | kW |
| | | | | Booster pump 2 ☐ | kW |
| | | | | Booster pump 3 ☐ | kW |
| | | | | Disinfection Equipment ☐ | kW |
| | | | | Treatment Equipment ☐ | kW |
| | | | | Compressor(s) ☐ | kW |
| | | | | ☐ | kW |
| | | YES ☐ | 1 ☐ | | kW |
| | | NO ☐ | 2 ☐ | | kW |
| | | Date to be installed | 3 ☐ | | kW |
| | | | | | kW |
| | | | | | kW |
| | | | | | kW |
| | | | | | kW |
| | | | | | kW |
| | | | | | kW |
| | | | | | kW |

**The generator's total KWs **cannot** be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. **

## OPTION 3A: NEGOTIATION OF LEASING AND CONTRACTING AGREEMENTS

Your water system will obtain an agreement with a generator providing company. Installation of a quick connect system is required with this option. Please note that the agreement must provide for coordination with the Texas Division of Emergency Management.

A. **Provide a signed copy of the agreement**

B. **Generator Specifications**

Please list the generator to be leased, **all** equipment to be powered, and the power needs for each piece of equipment.

| Generator Brand & Model | Max Power (KW) | Phase | Quick Connect Installed? | Fuel Type | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements for Each Facility and Treatment Unit Powered |
|---|---|---|---|---|---|---|
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed | | Well pump 1 ☐ | kW |
| | | | | | Well pump 2 ☐ | kW |
| | | | | | Well pump 3 ☐ | kW |
| | | | | | Booster pump 1 ☐ | kW |
| | | | | | Booster pump 2 ☐ | kW |
| | | | | | Booster pump 3 ☐ | kW |
| | | | | | Disinfection Equipment ☐ | kW |
| | | | | | Treatment Equipment ☐ | kW |
| | | | | | Compressor(s) ☐ | kW |
| | | | | | ☐ | kW |
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed<br>i. | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | | | | | kW |

**The generator's total KWs **cannot** be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. **

C. **Fuel Location**

i. Physical Location of Fuel Supply (GPS or "911" address):

D. **Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or longer if needed.**

i. How much fuel is stored on site?

ii. How much fuel does the generator use per hour? (Attachment C may assist in determining that amount.)

## OPTION 3B: MUTUAL AID AGREEMENT WITH ANOTHER WATER PROVIDER(S)

Member has identified needed resource(s) to another water provider as part of a mutual aid agreement. Installation of a quick connect system is required with this option. **A "distribution only" system may not use this option to maintain 20psi.** Please note that the agreement must provide for coordination with the Texas Division of Emergency Management.

**A. Please provide ALL of the following items:**

☐ Name of water system(s) or group that you have a mutual aid agreement with.

☐ A copy of the mutual aid agreement from each water provider.

☐ Highlight the area in the agreement that lists the resource(s) to be provided by the water system(s).

**B. Generator specifications**

Please list the items that are anticipated to be obtained through a mutual-aid agreement. List **all** equipment to be powered, and the power needs for each piece of equipment.

| Generator Brand & Model | Max Power (KW) | Phase | Quick Connect Installed? | Fuel Type | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements for Each Facility and Treatment Unit Powered |
|---|---|---|---|---|---|---|
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed | | Well pump 1 ☐ | kW |
| | | | | | Well pump 2 ☐ | kW |
| | | | | | Well pump 3 ☐ | kW |
| | | | | | Booster pump 1 ☐ | kW |
| | | | | | Booster pump 2 ☐ | kW |
| | | | | | Booster pump 3 ☐ | kW |
| | | | | | Disinfection Equipment ☐ | kW |
| | | | | | Treatment Equipment ☐ | kW |
| | | | | | Compressor(s) ☐ | kW |
| | | | | | ☐ | kW |
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | 1 ☐<br>2 ☐<br>3 ☐ | YES ☐<br>NO ☐<br>Date to be installed | | | kW |
| | | | | | | kW |
| | | | | | | kW |
| | | | | | | kW |

**The generator's total KWs **cannot** be less than the KWs listed under the power requirements for each facility and treatment unit that will be provided power. The generator must be able to power the equipment listed by the water system. **

## OPTION 4: USE OF PORTABLE GENERATOR(S) CAPABLE OF SERVING MULTIPLE FACILITIES EQUIPPED WITH QUICK-CONNECT SYSTEM(S)

A. **Please list the storage location of the portable generator. If sharing the generator, list the name of the water system you are sharing with and their location.**

| Generator Brand & Model | Generator Storage Location | Distance from Your Water System | Other Water Systems Sharing This Generator *(PWS Name and ID if applicable)* | Distance Between Your Water System and Those Sharing the Generator |
|---|---|---|---|---|
| | | | | |
| | | | | |

B. **Generator specifications**

Please list **all** the portable generators, **all** equipment to be powered, and the power needs for each piece of equipment.

| Generator Brand & Model | Max Power (KW) | Phase | Fuel Type | Quick Connect Installed? | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements for Each Facility and Treatment Unit Powered |
|---|---|---|---|---|---|---|
| | | 1 ☐ | | YES ☐ | Well pump 1 ☐ | kW |
| | | 2 ☐ | | NO ☐ | Well pump 2 ☐ | kW |
| | | 3 ☐ | | Date to be installed | Well pump 3 ☐ | kW |
| | | | | | Booster pump 1 ☐ | kW |
| | | | | | Booster pump 2 ☐ | kW |
| | | | | | Booster pump 3 ☐ | kW |
| | | | | | Disinfection Equipment ☐ | kW |
| | | | | | Treatment Equipment ☐ | kW |
| | | | | | Compressor(s) ☐ | kW |
| | | | | | ☐ | kW |
| | | 1 ☐ | | YES ☐ | | kW |
| | | 2 ☐ | | NO ☐ | | kW |
| | | 3 ☐ | | Date to be installed | | kW |
| | | | | | | kW |

C. **Fuel Location (if applicable)**

i. Physical Location of Fuel Supply (GPS or "911" address):

D. **Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more if needed.**

i. How much fuel is stored on site?

ii. How much fuel does the generator use per hour? (Attachment C may assist in determining that amount.)

## OPTION 5: USE OF ON-SITE ELECTRICAL GENERATION OR DISTRIBUTED GENERATION FACILITIES

Onsite Electrical Generation means that each facility generates its own power rather than being powered by a commercial electric power grid. Distributed Generation Facilities are small-scale power producing facilities located near the electrical load which may feed into a common grid.

**A. On-Site Electrical Generation or Distributed Generation Specifications**

i. Describe On-Site Electrical Generation or Distributed Generation Facility:

**B. On-site Electrical Generation or Distributed Generation Specifications**

Please list **all** facilities, list **all** equipment to be powered and the power needs for each piece of equipment.

| Type of On-site Electrical Generation Facilities. | Max Power (KW) | Fuel Type *(if applicable)* | List all Facilities and Treatment Units That Will Be Powered During an Emergency | Power Requirements of Each Facility and Treatment Unit Powered |
|---|---|---|---|---|
| | | | Well pump 1 ☐ | kW |
| | | | Well pump 2 ☐ | kW |
| | | | Well pump 3 ☐ | kW |
| | | | Booster pump 1 ☐ | kW |
| | | | Booster pump 2 ☐ | kW |
| | | | Booster pump 3 ☐ | kW |
| | | | Disinfection Equipment ☐ | kW |
| | | | Treatment Equipment ☐ | kW |
| | | | Compressor(s) ☐ | kW |
| | | | ☐ | kW |
| | | | | kW |
| | | | | kW |
| | | | | kW |
| | | | | kW |
| | | | | kW |

**C. Fuel Location**

i. Physical Location of Fuel Supply (GPS or "911" address):

**D. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours.**

i. How much fuel is stored on site?

ii. How much fuel does the generator use per hour? (Attachment C may assist in determining that amount)

## OPTION 6: HARDENING THE ELECTRIC TRANSMISSION AND DISTRIBUTION SYSTEM SERVING THE WATER SYSTEM

One alternative is to relocate electric transmission lines for the system from overhead to underground and protect them from flooding. Another alternative is to replace overhead transmission lines, poles and rated appurtenances with ones that can withstand historical hurricane-force wind velocities, and trim or remove any trees or branches next to and above the overhead transmission lines.

**A. Hardening Description**

i. Describe the hardening activities:

**B. Diagram**

Include a diagram showing the electrical system, including the power transmission system (from the power generation facility to the customer's power meter) and distribution system (the water system's electrical wiring after the customer's power meter) feeding each water facility and the preventive measures taken for each.

## OPTION 7: USE AND MAINTENANCE OF DIRECT ENGINE OR RIGHT- ANGLE DRIVES

(EXISTING FACILITIES ONLY) This option is only available to existing facilities and, may require more than one option. If right angle drive is located only on a well how will treated water be sent to the distribution system or if located only on a booster pump, how is treated water entering a storage tank, and must still provide 20 psi throughout the distribution system.

**A. Direct Engine or Right-Angle Drive Specification**

Please list all the drives, all equipment to be powered, and the power needs for each piece of equipment.

| Brand or Model | Max Power (HP, kW) | RPM | Fuel Type | List all Facilities and Treatment Units Powered | Power Requirements of Each Facility and Treatment Unit Powered (circle appropriate unit) |
|---|---|---|---|---|---|
| | | | | Well pump 1 ☐ | kW or HP |
| | | | | Well pump 2 ☐ | kW or HP |
| | | | | Well pump 3 ☐ | kW or HP |
| | | | | Booster pump 1 ☐ | kW or HP |
| | | | | Booster pump 2 ☐ | kW or HP |
| | | | | Booster pump 3 ☐ | kW or HP |
| | | | | Disinfection Equipment ☐ | kW or HP |
| | | | | Treatment Equipment ☐ | kW or HP |
| | | | | Compressor(s) ☐ | kW or HP |
| | | | | ☐ | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |
| | | | | | kW or HP |

**B. Fuel Location (if applicable)**

i. Physical Location of Fuel Supply (GPS or "911" address):

**C. Fuel Re-supply. Must have sufficient fuel to provide emergency power for a minimum of 48 hours or more as needed.**

i. How much fuel is stored on site?

ii. How much fuel does the generator use per hour? (Attachment C may assist in determining that amount.)

## OPTION 8A: DESIGNATION OF THE WATER SYSTEM AS A CRITICAL LOAD FACILITY

Your water system is registered with your electric provider as a critical load facility. This **will** require more than one option, because designation of critical load does not guarantee an uninterrupted supply of electricity. It is the responsibility of the water system to plan for alternative sources of electric power should a localized outage or load shed event occur. The water system is required to provide 20 psi throughout the distribution system.

A. **Provide ALL of the following items for designation of Critical Load Facility.**

☐ Name of electric provider(s).

☐ A copy of the letter or email from your electric provider(s) designating your water system as having critical load status.

☐ Submit a diagram of your water system that includes all equipment listed in Section II DESCRIPTION OF THE WATER SYSTEM

☐ Please choose other option(s) to ensure your utility can maintain 20psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.

Please provide other option(s) _____ then complete that section of the EPP.

B. **Indicate all facilities that are included in critical load status (please refer to the facilities listed for the PWS in Section II – Description of the Water System) and use the exact same naming convention.**

| Name of Plant | Address to Electric Meter Providing Power to Plant | List all Facilities and Treatment Units that have Critical Load Status by Plant |
|---|---|---|
| | | Source Water ID: TX |
| | | |
| | | |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

| Name of Plant | Address to Electric Meter Providing Power to Plant | List all Facilities and Treatment Units That that have Critical Load Status by Plant |
|---|---|---|
| | | Source Water ID: TX |
| | | |
| | | |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

| Name of Plant | Address to Electric Meter Providing Power to Plant | List all Facilities and Treatment Units That that have Critical Load Status by Plant |
|---|---|---|
| | | Source Water ID: TX |
| | | ☐ |
| | | ☐ |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

## OPTION 8B: DESIGNATION OF THE WATER SYSTEM AS HAVING REDUNDANT, ISOLATED, OR DEDICATED ELECTRICAL FEEDS

Your water system has redundant, isolated, or dedicated electrical feeds. This **will** require more than one option, because having redundant, isolated, or dedicated electrical feeds does not guarantee an uninterrupted supply of electricity. It is the responsibility of the water system to plan for alternative sources of electric power should a localized outage or load shed event occur. The water system is required to provide 20 psi throughout the distribution system.

A. **Provide the following if facility has redundant, isolated, or dedicated electrical feeds**

☐ Name of electric provider(s) that will provide redundant, isolated, or dedicated electrical feeds.

☐ A copy of the letter or email from your electric provider(s) that designates your water system as having redundant, isolated, or dedicated electrical feeds.

☐ Submit a diagram of your water system that includes all equipment listed in Section II DESCRIPTION OF THE WATER SYSTEM

☐ Please choose other option(s) to ensure your utility can maintain 20psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.

Please provide other option(s) _____ then complete that section of the EPP.

B. **Indicate all facilities that are included in having redundant, isolated, or dedicated electrical feeds:**

| Name of Plant | Address to Facility Meter with Dedicated Electrical Feeds | List all Facilities and Treatment Units that have redundant, isolated, or dedicated electrical feeds |
|---|---|---|
| | | Source Water ID: TX |
| | | |
| | | |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

| Name of Plant | Address to Facility Meter with Dedicated Electrical Feeds | List all Facilities and Treatment Units that have redundant, isolated, or dedicated electrical feeds |
|---|---|---|
| | | Source Water ID: TX |
| | | |
| | | |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |
| **Name of Plant** | **Address to Facility Meter** | **List all Facilities and Treatment Units that have redundant, isolated, or dedicated electrical feeds** |
| | | Source Water ID: TX |
| | | ☐ |
| | | ☐ |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

C. Indicate the facilities not included in having redundant, isolated, or dedicated electrical feeds:

| Name of Plant | Address to Facility without Dedicated Electrical Feeds | List all Facilities and Treatment Units that DO NOT have redundant, isolated, or dedicated electrical feeds |
|---|---|---|
| | | Source Water ID: TX |
| | | |
| | | |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |
| Name of Plant | Address to Facility without Dedicated Electrical Feeds | List all Facilities and Treatment Units that DO NOT have redundant, isolated, or dedicated electrical feeds |
| | | Source Water ID: TX |
| | | ☐ |
| | | ☐ |
| | | Booster pump 1 |
| | | Booster pump 2 |
| | | Booster pump 3 |
| | | Disinfection Equipment |
| | | Treatment Equipment |
| | | Air Compressor(s) |
| | | ☐ |

## OPTION 9: PROVIDE WATER STORAGE CAPABILITIES

Your water system has sufficient ground, elevated, or standpipe storage to provide your entire distribution system with water at 20 psi during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option if the water system does not have sufficient, useful storage during a power outage lasting longer than 24 hours. It is the responsibility of the water system to plan for alternative sources of electric power should the water system not have sufficient storage to last for greater than 24 hours.

A. **Explain how the water in storage will flow to customers, and how it will be replenished (with or without electricity)?**

B. **Does the water system have an existing, valid exception or alternative capacity requirement (ACR) for elevated or ground storage capacity? [30 TAC §290.45(g) and or 30 TAC §290.39(l)]**

☐ YES **

☐ NO

** Water systems with an exception or alternative capacity requirement that ***is less than,*** the required minimum capacity requirements for storage, will be required to choose a different option. A different option is required because an exception or alternative capacity requirement reduces the water system's minimum required treatment capacity and consequently reduces the system's ability to provide useful[1] water storage capacity during an outage lasting more than 24 hours.

**Use the diagram on the next page to assist you in answering questions C and D.**

C. **What is the useful storage [1] capacity of all storage tanks that maintain distribution pressures above 20 psi (46 feet of residual hydraulic head above the highest connection)?**
**Note: If you have dedicated fire storage, do not include it in the number above.**

Useful storage capacity of all storage tanks: _____

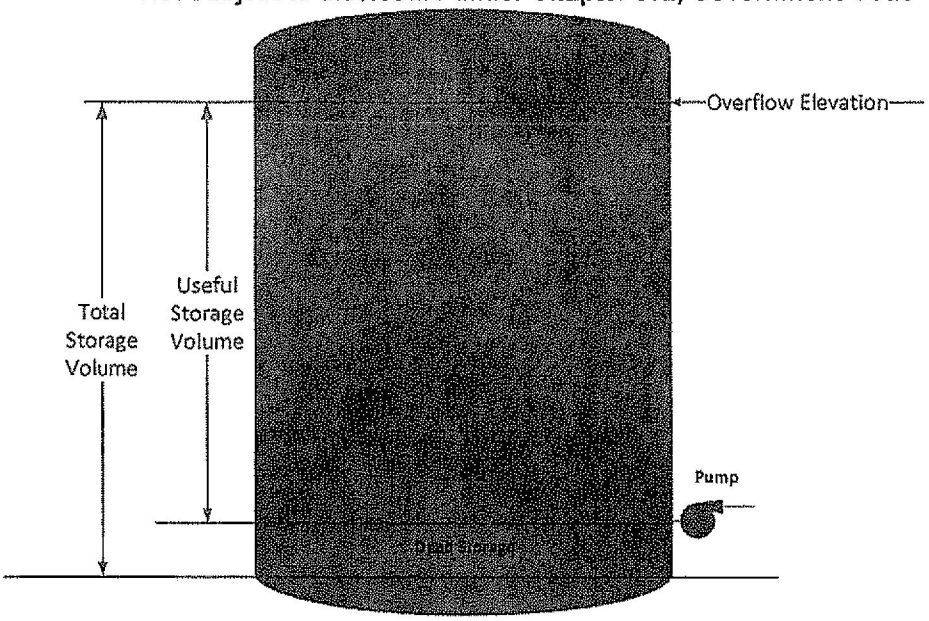
D. **Using the water systems Maximum Daily Demand (MDD) listed in question 5 under *Section II – Description of the Water System*, divide the useful storage volume (million gallons) for maintaining distribution pressures above 20 psi by the MDD under emergencies. This is the amount of days water can be provided if storage was full before the start of the emergency.**

Number of days water can be provided before a state of emergency arises: _____

E. **Please choose other option(s) to ensure your utility can maintain 20 psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide other option(s) then complete that section of the EPP.

[1] The AWWA Drinking Water Dictionary defines useful storage as "*water storage that is readily available for discharge into a distribution system, such as water in an elevated storage tank or in a ground storage tank that can be pumped into the system. Water in a ground storage tank below the suction level of the pump would be storage, but not useful storage*".


Overflow Elevation
Total Storage Volume
Useful Storage Volume
Pump
Dead Storage

## OPTION 10A: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING EMERGENCY INTERCONNECTS

The affected utility would be receiving water temporarily until natural disaster has passed.

Water is delivered from outside your service area in such a manner that you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option depending if the entire water system will be receiving water from the interconnect. An affected utility opens one or more emergency interconnects with other water systems that can provide water into different pressure zones of the affected utility requesting to use this option.

**If Using Emergency Interconnects (normally closed) to provide water to your service area:**

A. **List water system(s) that will be providing your connections with water during an emergency, where the providing system obtains its water, and the number of connections that will be provided water.**

| PWS ID Number and Name | Where does this system obtain its water? | Connections Served |
|---|---|---|
| | | |
| | | |
| | | |

B. **Provide the following information:**

1. A map of your distribution system and highlight the area that will be provided water by a different water system.
2. Is the interconnect under direct pressure or is it an air gap into a storage tank? _____
3. Provide a copy of an agreement or contract that clearly states the providing system agrees to provide and maintain water to your distribution system at 20psi.

List storage tank(s) that have an air gapped interconnect?

| **Plant Name** (Needs to match with listing under Section II of EPP) | **Storage Tank(s)** |
|---|---|
| | |
| | |

C. **Will both water systems be using the same type of disinfection?** ☐ YES ☐ NO

If you answered NO and the emergency source contains a different disinfectant than what the water system distributes under normal operations, provide the following information:

☐ YES ☐ NO Will the water system use only the emergency source during an emergency?

☐ YES ☐ NO Will the water system modify their distribution system to ensure areas with different disinfectants will be isolated from each other?

☐ YES ☐ NO Does the water system currently have a valid exception to blend chlorine and chloramines in an emergency?

D. **If the disinfection used is not the same for both water systems, explain how the water system will notify customers of the change for health purposes? [ 30 TAC §290.47(h)]**

E. **If only part of your system will have service maintained by interconnection, please provide information on what option applies to the rest of the system. Option and complete that section of the EPP.**

F. **If water is delivered into a storage tank, please choose other option to ensure your utility can maintain 20 psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide other option(s) then complete that section of the EPP.

## OPTION 10B: WATER IS DELIVERED TO YOUR DISTRIBUTION SYSTEM FROM OUTSIDE YOUR SERVICE AREA USING WATER HAULER(S)

The affected utility would be receiving water temporarily until natural disaster has passed. Water is delivered to your service area using a water hauler and, you can provide water at 20 psi to your distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option if the water system cannot deliver water pressurized to 20 psi to the distribution system.

**If using Water Hauler(s) to provide water to your service area:**

A. **Provide documentation that the water hauler is approved and registered to haul water by the TCEQ.**

| **Approved Water Hauler ID** (Can be verified in Texas Drinking Water Watch) |
|---|
| |
| |

B. **List all water providers utilized by the water hauler and the type of disinfection used by each provider to ensure compatibility with disinfection protocols.**

| **Water Provider ID** | **Type of Disinfection Used** |
|---|---|
| | |
| | |

C. **Explain how the water will be pumped from the water hauler into the storage tank?**

| |
|---|
| |

D. **Which storage tanks will be filled by the water hauler?**

| **Plant Name** (Needs to match with listing under Section II of EPP) | **Storage Tank(s)** |
|---|---|
| | |
| | |

E. **Explain how the water will be pumped from the storage tank into the distribution system?**

| |
|---|
| |

F. **Will the water hauler be able to supply enough water to the distribution system in a timely manner?**

☐ YES ☐ NO

G. **If only part of your system will have service maintained by water hauling, please provide information on what option applies to the rest of the system.**

Please provide option(s) and complete that section of the EPP.

H. **If water is delivered into a storage tank, please choose**

**another option(s) to ensure your utility can maintain 20 psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide another option(s) then complete that section of the EPP.

## OPTION 11: WATER SYSTEM HAS THE ABILITY TO PROVIDE WATER THROUGH ARTESIAN FLOWS

An affected utility can provide water using an approved artesian source to their distribution system at 20 psi during an extended power outage lasting more than 24 hours. This **will** need to be combined with another option if the water system is unable to ensure water is consistently treated and distributed at 20psi to your distribution system. It is the responsibility of the water system to plan for alternative sources of electric power should the water system be unable to consistently provide 20 psi of pressurized treated water to the distribution system.

A. **Please provide the well identification number of the approved artesian source: TX_____**

B. **What is the flow of the source in GPM? _____**

C. **How will the source water get treated and distributed consistently to the distribution system?**

D. **How will pumps be powered?**

E. **Please choose other option(s) to ensure your utility can continuously treat, disinfect, and pressure your system to 20 psi, if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide another option(s) then complete that section of the EPP.

## OPTION 12: REDUNDANT INTERCONNECTIVITY BETWEEN PRESSURE ZONES

An affected utility opens valves in one or more of their pressure zones to provide water at 20 psi throughout its distribution system during an extended power outage lasting more than 24 hours. This option **may** need to be combined with another option to ensure the system can provide 20 psi throughout its distribution system.

A. **Explain how the water will flow to customers within one or more pressure zones, and how it will be replenished (with or without electricity)?**

B. **Please provide the following:**

☐ A map of your system delineating pressure planes, and show elevated tanks, elevation contours of each zone and isolation valves.

☐ Provide useful storage of each elevated storage tank, see **(Option 9 Question C-D and Diagram page 25)**.

☐ A capacity report with details that show each pressure plane can provide 0.35 gpm per connection.

☐ Are there areas that will need inline booster pumps? If so, how will they be powered? Please provide a schematic of the connection.

C. **Please choose other option(s) to ensure your utility can continuously treat, disinfect, and pressurize your system to 20 psi, if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide your other option(s) then complete that section of the EPP.

D. **A hydraulic study will be required if you are unable to demonstrate that your water system can maintain a minimum of 20 psi in distribution based on the information provided in Items A and B. For example, if elevation contour difference exceeds feet of useful storage or if water supply does not appear adequate for an electrical outage lasting more than 24 hours.**

## OPTION 13: USE EMERGENCY WATER DEMAND RULES TO MAINTAIN EMERGENCY OPERATIONS

An affected utility will provide a minimum of 0.35 gallons per minute (gpm) per connection to the distribution system while maintaining distribution pressures of at least 20 psi in the event of the loss of normal power supply. This option **will** need to be combined with another option to ensure 20 psi during a water outage lasting more than 24 hours since just reducing water demand will not be adequate to provide water during an extended power outage.

A. **How will you communicate with your customers that you have instituted your Drought Contingency Plan during an extended power outage? (e.g. Utility website, Social Media, Radio, TV, reverse 911, door tags, signs posted at Subdivision entrances)**

B. **Please choose additional option to ensure your utility can maintain 20 psi if your electrical provider fails to provide your facility with power during an outage lasting longer than 24 hours.**

Please provide other option(s) _____ then complete that section of the EPP.

C. **Explanation and Authority**

During periods of drought, a major leak, a system failure, or excessive consumption beyond the capacity of the system, etc., the _____ *(e.g. PWS name, owner name, owner representative, Operator, etc.)* has the capability to conserve and restrict water use based upon the local water system regulations found in _____ (Drought contingency plan, rental agreement, city ordinance, etc.). During times of drought or other problems that limit the availability of water, public notice of water use restrictions will be issued by: _____ *(e.g. PWS name, owner name, owner representative, operator, etc.).*

D. **WATER RESTRICTION STAGES** N/A ☐

Fill in the levels or stages of restrictions that will be applied, the conditions that generally will trigger them and the types of restrictions that will be applied. The conditions that trigger various restriction stages could be based upon critical source water levels and other conditions such as imminent loss of water or pressure.

| Restriction Stage | Stage Trigger(s) | Restrictions |
|---|---|---|
| I | | |
| | | |
| II | | |
| | | |
| III | | |
| | | |

## OPTION 14: ANY OTHER ALTERNATIVE DETERMINED BY THE COMMISSION TO BE ACCEPTABLE

An affected utility can propose other alternatives of meeting the requirements of TWC 13.1394 if the alternative(s) ensure water will be provided at 20 psi throughout the distribution system during a water outage lasting more than 24 hours.

A. **The following methods would NOT be acceptable options**

i. **Evacuation**

The EPP must show how you will provide water during an extended power outage caused by a natural disaster, not during the disaster when it is unsafe. The rule specifically states the water is to be provided after it is safe and practicable. The people who are evacuated may return when it is safe to do so after the disaster has passed, but before power is returned to your water system. In the case, of the most recent winter storm power was not restored for several days. You must be able to provide water after the disaster, but before normal power is restored.

ii. **Providing bottled water**

The EPP must show how you will provide water at **20 psi** at each of your customer's connections.

iii. Relying on your provider **without** the documentation that states the provider will provide your system with 20psi throughout your distribution system.

B. **Alternative Description**

| Describe the alternative and how it will provide 20 psi throughout your distribution system: |
|---|
| |

## Section V – Emergency Communications

Emergency Communications are an essential part of an emergency response event. Knowing who to notify before an emergency event occurs is the best way to ensure that you, your system, and your customers receive needed emergency assistance. Many numbers have been provided to assist you with completing this portion of the plan. Please feel free to make copies of the pages in Section IV to post at your facility and/or to train your employees. **If you are a member of another mutual aid organization other than TXWARN please include them on this list.**

A. **Emergency Contacts**

| Organization | Phone Numbers (include area code) | | E-Mail or Website |
|---|---|---|---|
| | Day | Evening | |
| Fire Department | 911 | 911 | |
| Police Department | 911 | 911 | |
| Emergency Medical Service | 911 | 911 | |
| TCEQ Water Homeland Security | 888/777-3186 | 888/777-3186 | |
| Texas PUC | 512/936-7405 | | http://www.puc.texas.gov/industry/water/utilities/fmt.aspx<br>Email: water@puc.texas.gov |
| National Response Center | 800/424-8802 | 800/424-8802 | http://nrc.uscg.mil/Default.aspx |
| State Spill Hotline | 800/832-8224 | 800/832-8224 | https://www.tceq.texas.gov/response/spills |
| Poison Control | 800/222-1222 | 800/222-1222 | http://poisoncontrol.org/home/ |
| CHLOREP (Chlorine Emergency Plan) | 800/424-9300 | 800/424-9300 | https://www.chlorineinstitute.org/emergency-preparedness/chlorep/ |
| TCEQ Regional Office | 24-hour cell phone 512/965-2717 | | Website: https://www.tceq.texas.gov/agency/directory/region/reglist.html |
| County judge | 409/882-7070 | 409/882-7070 | Email: jgothia@co.orange.tx.us<br>Website: https://www.co.orange.tx.us/departments/CountyJudge |
| County Office of Emergency Management | 409/882-7895 | 409/882-7895 | Website: https://www.co.orange.tx.us/directory/EmergencyManagement |
| County Sheriff's Office | 409/883-2612 | 409/883-2612 | Website: https://ocsheriffsoffice.com/ |
| County Public Health & Environmental Services | 409/670-4135 | 409/670-4135 | Website: https://www.co.orange.tx.us/public-health |
| City Mayor's Office | N/A | N/A | Email:<br>Website: |
| Local Public Health & Environmental Services | | | Email:<br>Website: |
| Local Office of Emergency Management | | | Email:<br>Website: |

| Organization | Phone Numbers (include area code) | E-Mail or Website |
|---|---|---|
| TX Division of Emergency Management (TDEM) | Provides list of State and District Coordinators which assist local officials with state assistance requests. Requests must start at local level first. | https://tdem.texas.gov/field-response/ |
| TXWARN | 866/9-TXWARN (866/989-9276) | Email: info@txwarn.org<br>https://www.txwarn.org |
| Other Mutual Aid Provider | | Email:<br>Website: |

B. **Local Contact Notification List**

Identify those entities that should be notified in the event of an extended power outage requiring emergency operations. These are people who you provide water to that you may need to contact during an emergency.

| Organization | Contact Name | Title | Phone Numbers (include area code) | | | E-Mail |
|---|---|---|---|---|---|---|
| | | | Day | Evening | Cellular/Pager | |
| Other Local Government Officials | | Vidor City Hall | 409-769-5669 | | | |
| | | | | | | |
| Hospitals served by the Affected Utility | | | | | | |
| | | | | | | |
| Nursing Homes served by the Affected Utility | | Cantex Health Care | 409-769-3692 | | 409-769-8802 | |
| | | Vidor Nursing Care | 409-769-2454 | | 817-980-1065 | |
| | | | | | | |
| Pharmacies | | | | | | |
| | | | | | | |
| Priority Water Users (Those that are critically dependent upon water including schools, dialysis centers, institutions, individuals with special needs, businesses, and other interconnected water systems, etc.) | | Vidor ISD Maintenance Building | 409-951-8770 | | | |
| | | Vidor Pine Forest Elementary | 409-951-8800 | | | |
| | | Vidor Elementary | | | | |
| | | Vidor Oak Forest Elementary | 409-951-8860 | | | |
| | | Vidor Middle School | 409-951-8880 | | | |
| | | Vidor High School | 409-951-8900 | | | |
| | | Vidor Junior High School | 409-951-8970 | | | |
| | | Early Learning Center | 409-769-2395 | | | |
| | | Lollipop Stop Children Center | 409-769-3080 | | | |
| | | Loving Start | 409-769-6070 | | | |
| | | Bright Beginnings Center | 409-656-1686 | | | |
| Others | | Holiday Inn Express | 409-783-2420 | | | |

| Organization | Contact | Title | Phone Numbers (include area code) | | | E-Mail |
|---|---|---|---|---|---|---|
| | | Best Western | 210-410-7061 | | | |

C. **Chemical Supplier Information**

Identify your Chemical Suppliers. You may need to contact them for more chemicals during an emergency

| Chemical | Supplier | Contact Name | Phone Number Day | Phone Number Evening | Cell Phone | E-Mail |
|---|---|---|---|---|---|---|
| Chlorine | DXI Industries | | 281-457-4888 | | | |
| Polyphosphates | Simply Aquatics | | 409-420-1774 | | | |
| Carifloc C-6266 | SNF Polydyne | | 912-884-3366 | | | |

## D. Certified Laboratory Information

Identify your laboratory and a backup laboratory. You may need a backup laboratory if your lab is nonfunctional.

| | | | Phone Numbers (include area code) | | | |
|---|---|---|---|---|---|---|
| **Organization** | **Contact Name** | **Title** | **Day** | **Evening** | **Cellular/Pager** | **E-Mail** |
| Eastex Environmental Lab | | | 936-653-3249 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Sabine River Authority | | | 409-565-2273 | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

## E. Fuel Supplier Contact Information (if applicable)

Identify your Fuel Suppliers. You may need to contact them for fuel during an emergency

| Fuel Type | Supplier | Contact Name | Phone Number Day | Phone Number Evening | Cell Phone | E-Mail |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |

## F. Utilities Contact Information

Identify your Utilities Contacts. You may need to contact them during an emergency and use **N/A** if a listed organization does not apply to your water system.

| | | | | Phone Numbers (include area code) | | | |
|---|---|---|---|---|---|---|---|
| **Organization** | **N/A** | **Contact Name** | **Title** | **Day** | **Evening** | **Cellular/Pager** | **E-Mail** |
| Electric Utility Company | | ENTERGY | | 1-800-968-8243 | 1-800-968-8243 | | |
| Gas Utility Company | | CenterPoint | | 1-888-876-5786 | 1-888-876-5786 | | |
| Sewer Utility Company | N/A | | | | | | |
| Telephone Utility Company | | AT&T | | 1-800-442-9950 | 1-800-442-9950 | | |
| Wholesale Water Provider | N/A | | | | | | |
| Wholesale Water Provider | N/A | | | | | | |
| Other | N/A | | | | | | |

## G. Bulk Water Suppliers

Identify any bulk or bottled water suppliers that you might utilize in an emergency.

| | | | Phone Numbers (include area code) | | | |
|---|---|---|---|---|---|---|
| **Organization** | **Contact Name** | **Title** | **Day** | **Evening** | **Cellular/Pager** | **E-Mail** |
| Bulk Water Haulers | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Bottle Water Sources | Culligan | | 713-293-6400 | | | |
| | Ozarka Water | | 866-889-3567 | | | |
| | | | | | | |
| | | | | | | |

## H. Media Notification List

Identify the media organizations that you might need to contact to provide information to your customers. Also identify who is your media spokesperson. If you have a different method to communicate to your customers, please list under **Other.**

| Organization | Contact Name | Title | Day | Evening | Cellular/Pager | E-Mail |
|---|---|---|---|---|---|---|
| Designated Water System Spokesperson | FRANK INZER | BOARD PRESIDENT | | | 409-781-3132 | 54dogwood@gmail.com |
| Newspaper - Local | Randall Luker | Owner | 409-769-5428 | | 409-673-3924 | vidorian1@sbcglobal.net |
| Newspaper – Regional State | Orange Leader | | 409-721-2819 | | | news@orangeleader.com |
| Radio | Cumulus Broadcasting | | 409-951-2500 | | | karen.leger@cumulus.com |
| | KLVI AM 560 (Clear Channel) | | 409-896-5584 | | | klvi@klvi.com |
| | | | | | | |
| | | | | | | |
| Television | Channel 12 | | 409-838-1221 | | | 12news@kbmt12.com |
| | Channel 6 | | 409-895-4675 | | | news@kfdm.com |
| Other | | | | | | |

# ATTACHMENT A – SUBMITTING COMPLETED EPP

Upon completing your EPP please email or mail (**not both**) the completed form and additional documentation needed to the Texas Commission on Environmental Quality for review and approval to:

**Choose One**

PDWEPP@tceq.texas.gov

**OR**

Water Supply Division, Drinking Water Special Functions Section, MC-155
P.O. Box 13087
Austin, TX 78711-3087

## Assistance

If you need assistance with the EPP template please fill out the **EPP Help Form at www.tceq.texas.gov/goto/epp-help** and TCEQ will contact you via email or phone to work with you.

## Approved Plan Distribution

Completer this section after the approval letter is received from TCEQ. Please maintain appropriate documentation of compliance with plan distribution requirements. In addition, a copy of the approved plan must be maintained by the "affected utility", so that it can be easily accessed in the event of an emergency. All employees must receive annual training on implementation of the plan.

Copies of the approved Emergency Preparedness Plan and the TCEQ Approval Letter must be distributed to the following entities:

| Distributed To | Method of Distribution | Date |
|---|---|---|
| County Judge | | |
| County Office of Emergency Management | | |
| Public Utility Commission Filing | Use the **weblinks** provided:<br>For Confidential filing procedures for the PUC use Docket No. 52272<br>1. http://puc.texas.gov/industry/filings/Confidential.aspx<br>For PUC Procedural Rules for Filing of Pleadings, Documents, and Other Materials<br>2. http://puc.texas.gov/agency/rulesnlaws/procrules/pre/22.71/22.71.pdf<br>**Address:**<br>Public Utility Commission of Texas<br>Central Records<br>1701 N Congress PO Box 13326<br>Austin, Texas 78711-3326<br>For additional questions contact the PUC Central Records office at (512)-936-7180. | |

| | | |
|---|---|---|
| Texas Division of Emergency Management (TDEM) | Submit to TDEM via email at: TechHaz@tdem.texas.gov<br><br>**Address:**<br>Texas Division of Emergency Management<br>1033 La Posada, Ste 300<br>Austin, Texas 78752<br><br>For additional questions contact the TDEM (512)-424-2208 | |

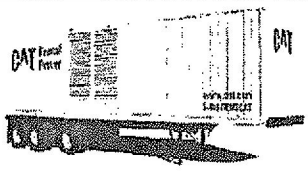
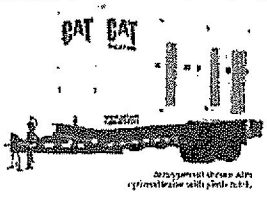
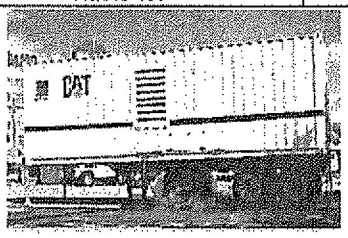
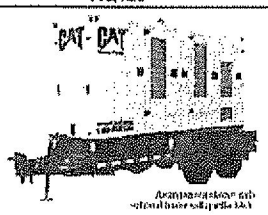
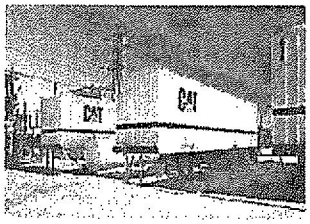
## ATTACHMENT B – Acute Public Health Threat - Public Notification

The affected utility must notify the public when a condition exists which according to TCEQ constitutes an acute public health threat in accordance with 30 TAC §290.46(q). Templates and specific instructions are available on the TCEQ Website at https://www.tceq.texas.gov/drinkingwater/boilwater.html.

# ATTACHMENT C – Generator Information

If you plan on utilizing options 1, 2, 4, 5, or 6, you will need to estimate the gallons per hour of fuel that will be used by the generator. This is essential in determining the volume of fuel required to maintain emergency operations. Below is a chart from the FEMA Resource Typing Manual which may be of assistance in determining fuel needs and generator types.

| RESOURCE: GENERATORS | | | | | | |
|---|---|---|---|---|---|---|
| Category: | Public Works & Engineering (SEF 3) | | | Kind: | Equipment | |
| Minimum Capabilities: Component | Metric | Type I | Type II | Type III | Type IV | Type V |
| Equipment | KW | XQ2000<br>2000 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 3015 Amps@ 480 Volts, 3 Phase, 60 Hz; Dry weight 89,000 lbs; Fuel tank capacity 1250 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application example—Single or multiple units for: Power plants, heavy industrial facility, high-rise buildings;<br>Setup time (cables from generator to main power feed estimated at 5+ hours) | XQ1500<br>1500 kW Generator, Sound attenuated; Trailer mounted (semi tractor); Up to 2260 Amps@ 480 Volts, 3 Phase, 60 Hz; Dry weight 59,000 lbs; Fuel tank capacity 1250 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application example—Single or multiple units for: Universities, hospitals, medium to large manufacturing facility;<br>Setup time (cables from generator to main power feed estimated at 5+ hours) | XQ600<br>600 kW Generator; Sound attenuated; Trailer mounted (semi tractor); Up to 2080 Amps@ 208 Volts, 3 Phase, 60 Hz / up to 902 Amps@ 480 Volts 3 Phase, 60 Hz; Dry weight 37,000 lbs; Fuel tank capacity 660 Gallons; Dimensions 40' Long x 8' Wide x 13'.5" Tall; Potential application examples: Retail stores, HVAC system power, multi-story/buildings, light manufacturing, apartment buildings; Setup time (cables from generator to main power feed estimated at 3+ hours) | XQ400<br>400 kW Generator; Sound attenuated; Trailer mounted (pull behind); Multi-voltage distribution panel; Up to 1390 Amps @ 208 Volts, 3 Phase, 60 Hz/up to 602 Amps@ 480 Volts 3 Phase, 60 Hz; Dry weight 16,800 lbs; Fuel tank capacity 470 Gallons; Dimensions 23' Long x 8'.5" Wide x 11' Tall; Potential application example: Large office building, public schools, libraries, and communication equipment.<br>Setup time (cables from generator to main power feed estimated at 2+ hours) | XQ125<br>125 kW Generator; Sound attenuated; Trailer mounted (pull behind); Multi-voltage distribution panel; Up to 433 Amps@ 208 Volts, 3 Phase, 60 Hz / up to 188 Amps @ 480 Volts 3 Phase, 60 Hz; Dry weight 10,810 lbs; Fuel tank capacity 223 Gallons; Dimensions 18'.5" Long x 6'.5" Wide x 9' Tall; Potential application example: Small office building, emergency mobile trailers & operations, restaurants.<br>Setup time (cables from generator to main power feed estimated at 1 hour) |
| Comments: | 2500-gallon external fuel tanks available. Fuel consumption is estimated at 7% of the kW usage (example: fuel consumption on a 100 kW Generator operating at full load is approximately 7 gallons per hour). Technicians are available for hookup and monitoring of equipment. 4/0 Quick connect (Cam-Lock) cable is available for tie-in to power feed, rated at 400 Amps each cable. Fuel supply, and/or fuel vendors available. Power distribution equipment available. Transformers & Load Banks are available. | | | | | |

| XQ2000 | XQ1500 | XQ600-400 | XQ125 |
|---|---|---|---|
|  |  |  |  |
|  | | | |

# ATTACHMENT D – RECOVERY CHECKLIST

Returning to normal operations is vital to rapid restoration of clean, safe water to the community and is essential to the assessment and recovery process. The following is a checklist of actions to be taken during the recovery period. Also included is a preliminary damage assessment that can be used to assist in the recovery process.

## Assessment and Recovery Period Checklist

☐ Perform in-depth damage assessment of system to determine long-term effects of damaged areas (use assessment form below).

☐ Notify TCEQ of system operational status and situation.

☐ Will there be a need to use mutual aid agreements and/or implement standby contracts or other emergency agreements for equipment and operations?

☐ Prepare written documentation of emergency work performed for possible compensation by emergency agencies. Make sure that crews make a record of work effort, written logs (see Work Order Log) and take pictures. This will all be helpful in recovery of funds.

☐ Notify appropriate insurance carriers. Provide written and photo documentation of damage.

☐ Assist in the survey of emergency repairs and scheduling of permanent repairs.

☐ Servicing of emergency equipment, when able (oil changes, lubrication, etc.).

☐ Make sure the public is kept informed throughout the extent of the emergency.

## Preliminary Damage Assessment

Following the Damage Assessment, you should notify TCEQ of your operational status.

A. **eneral Overview:**

☐ Determine need to repair, replace, or abandon facilities

☐ Estimate cost to repair damage

☐ Evacuate buildings in danger of collapse

B. **reatment Plants:**

☐ Check if power is available and condition of mechanical and electrical equipment

☐ Check for chemical spills or releases

C. **onfirm that field crew does the following:**

☐ Check for structural damage

☐ Closes and tags damaged facilities and equipment

D. **anks:**

☐ Check for evidence of failure of subbase

E. **eservoirs:**

Check for:

☐ Leaks and Seepage

☐ Cracks

G ☐ Broken inlet/outlet pipes, underdrains

☐ Landslides or Embankment slump

☐ Buckling

F. **istribution System:** D

Check for:

T ☐ Leaks

☐ Breaks

☐ Pressure loss in lines

☐ Cross-connections

C ☐ Check mechanical couplings

☐ Lower water levels to reduce possibility of structural damage

G. **ells:** W

T ☐ Check for physical damage to facilities

☐ Test for contamination

☐ Name, address, phone # for private lab

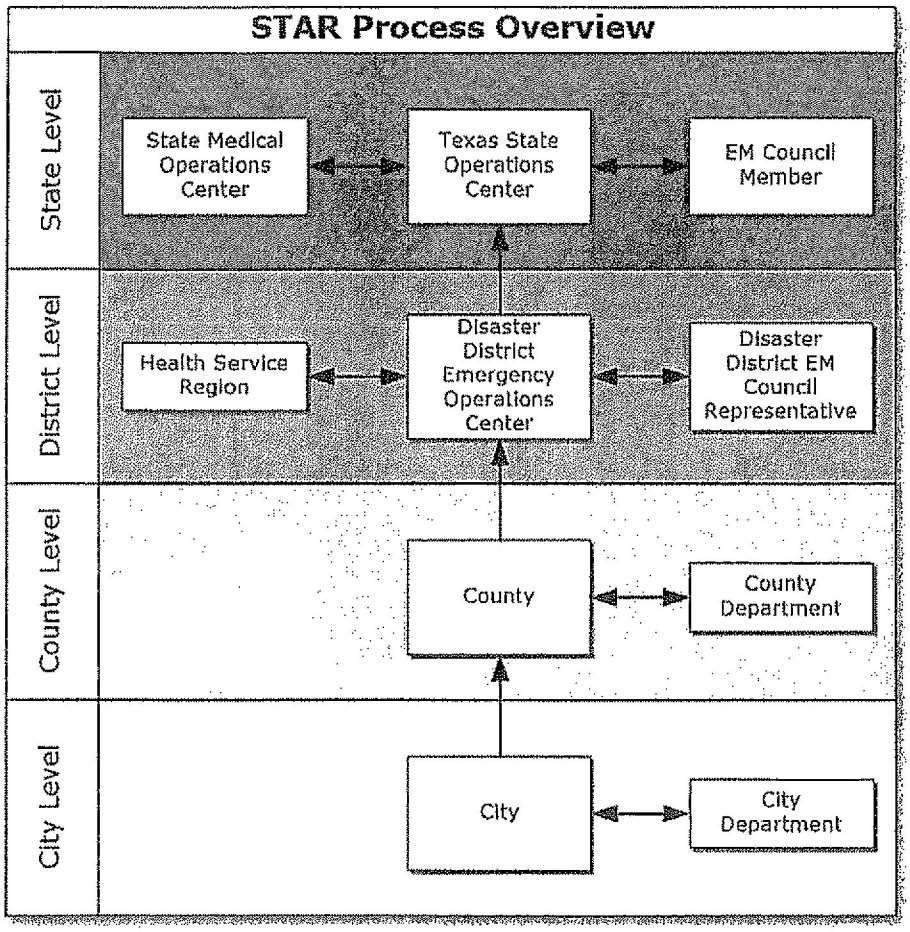
R ☐ Check for pump or motor failure

☐ Check power source

## ATTACHMENT E – State Assistance Request:

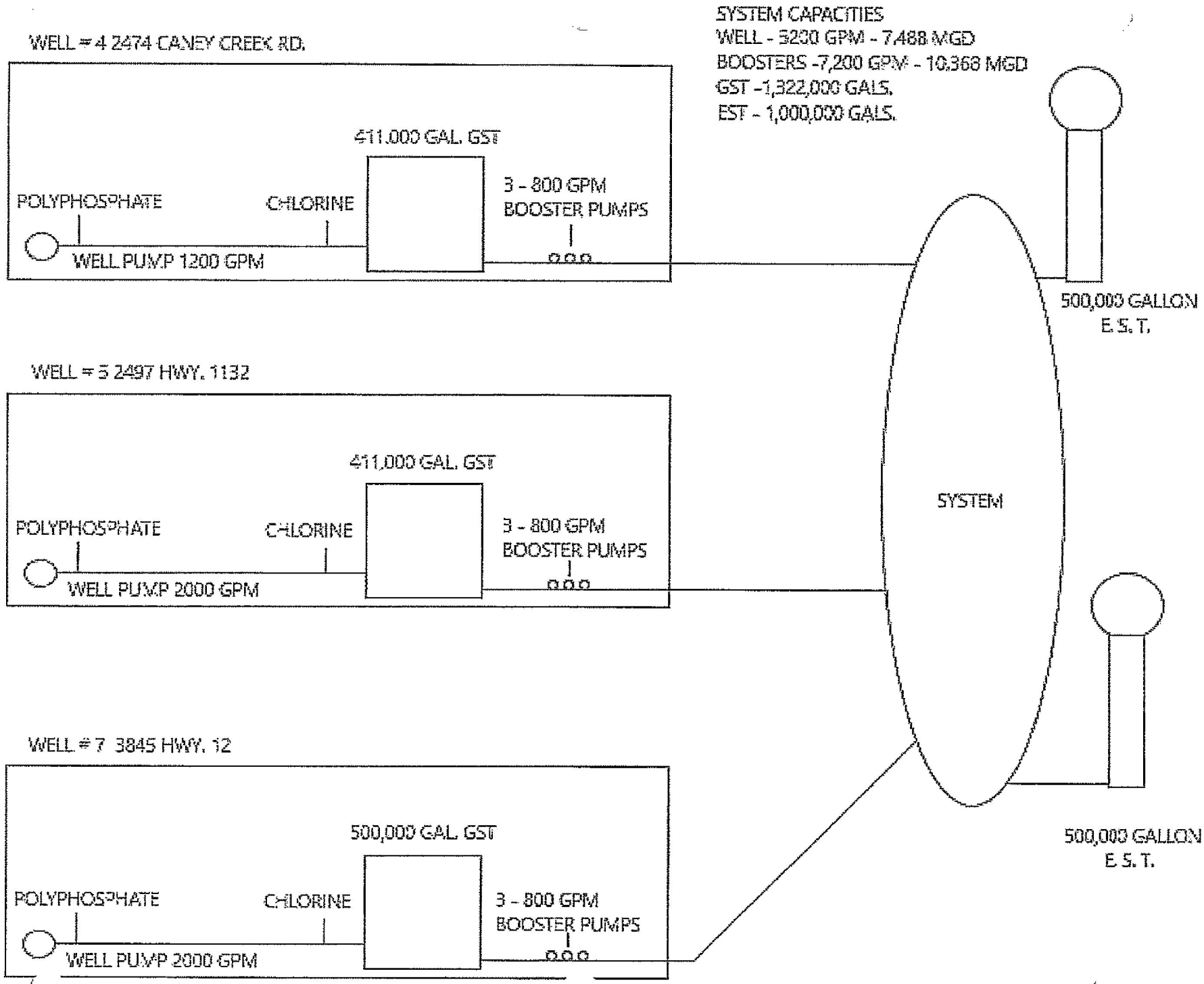
If an affected utility is interested only in mutual aid assistance, register with TXWARN at https://www.txwarn.org/; this is a free service.

When requesting state assistance, the request(s) must start at the local level with the County Judge or the County Emergency Manager. The request must go to the Texas Division of Emergency Management using the steps outlined in the STAR Process.

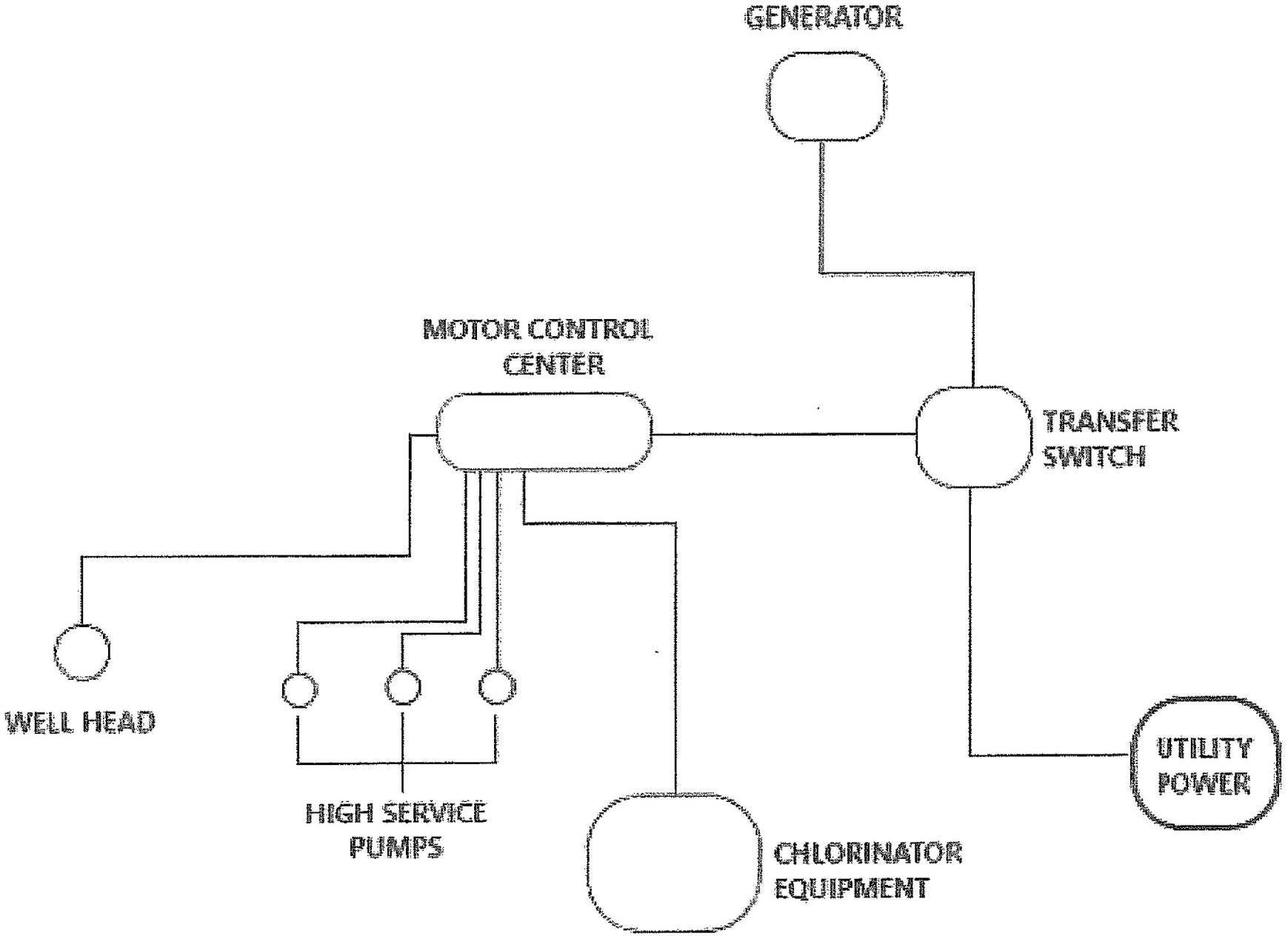


# Appendix 2

## Process Flow Diagrams


SYSTEM CAPACITIES
WELL - 3200 GPM - 7.488 MGD
BOOSTERS -7,200 GPM - 10.368 MGD
GST -1,322,000 GALS.
EST - 1,000,000 GALS.
WELL # 4 2474 CANEY CREEK RD.
411,000 GAL. GST
POLYPHOSPHATE
CHLORINE
3 - 800 GPM
BOOSTER PUMPS
WELL PUMP 1200 GPM
500,000 GALLON
E.S.T.
WELL # 5 2497 HWY. 1132
411,000 GAL. GST
POLYPHOSPHATE
CHLORINE
3 - 800 GPM
BOOSTER PUMPS
WELL PUMP 2000 GPM
SYSTEM
WELL # 7 3845 HWY. 12
500,000 GAL. GST
POLYPHOSPHATE
CHLORINE
3 - 800 GPM
BOOSTER PUMPS
WELL PUMP 2000 GPM
500,000 GALLON
E.S.T.

# WELL NO. 7

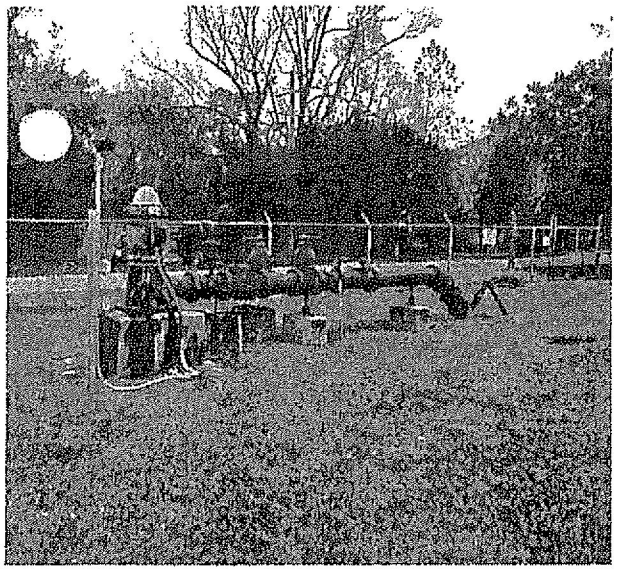

GENERATOR
MOTOR CONTROL CENTER
TRANSFER SWITCH
WELL HEAD
HIGH SERVICE PUMPS
CHLORINATOR EQUIPMENT
UTILITY POWER

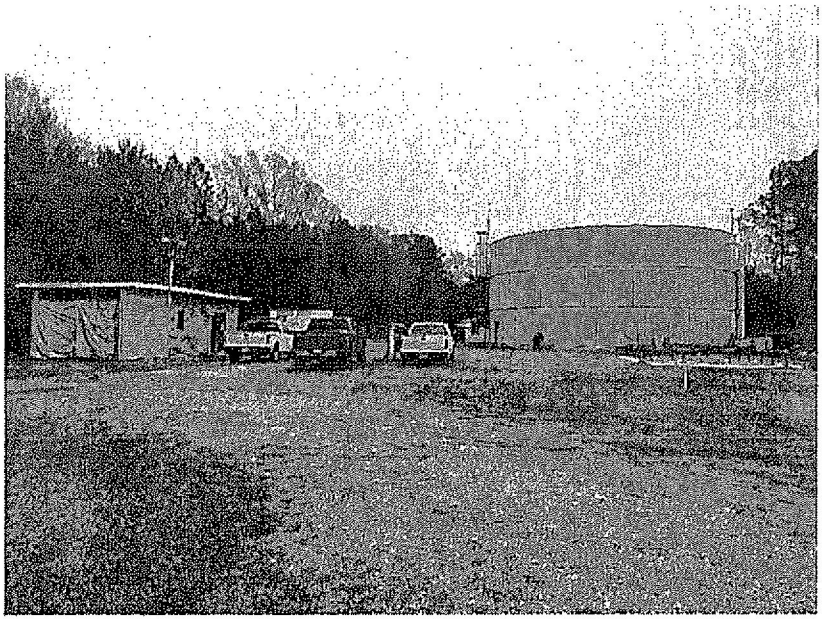
Appendix 3

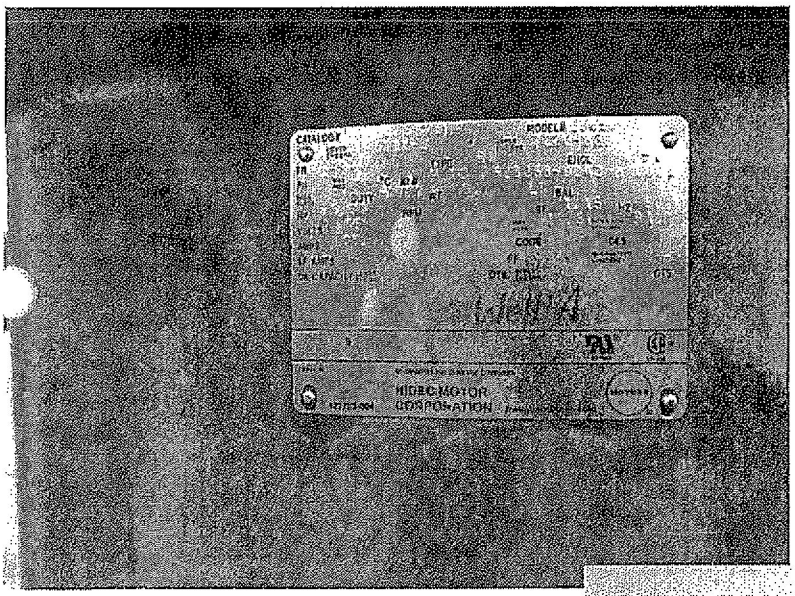
Facility Photo Record

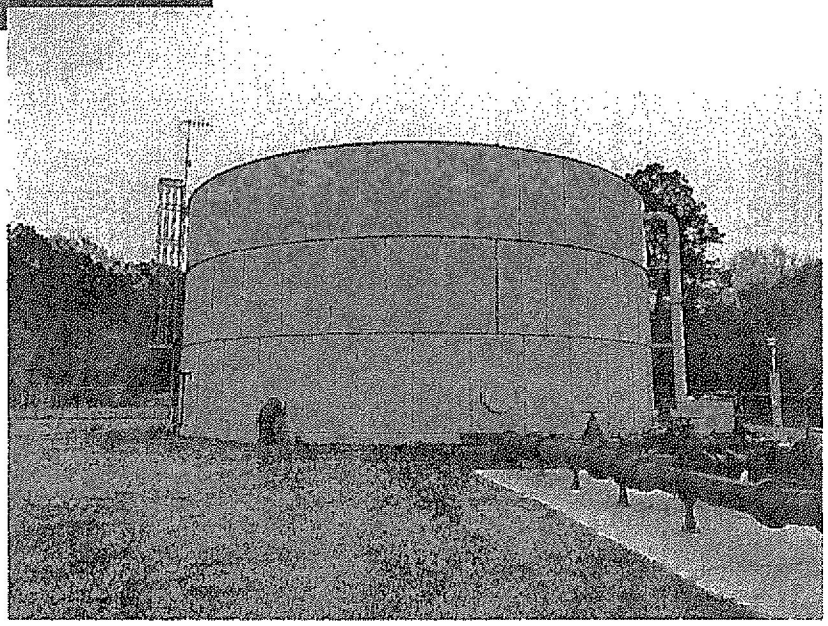
Well Site #4


NO TRESPASSING
AUTHORIZED
PERSONNEL ONLY
BEYOND THIS POINT

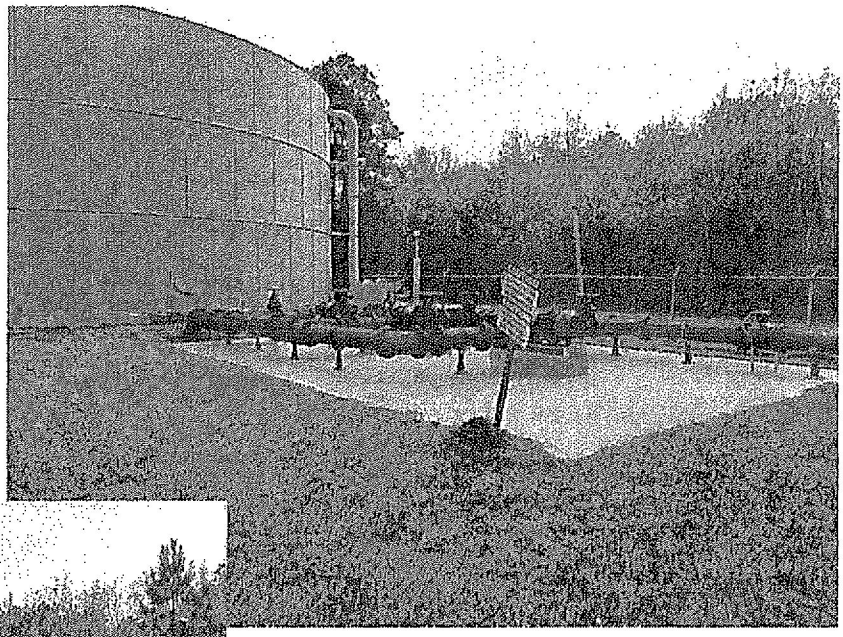


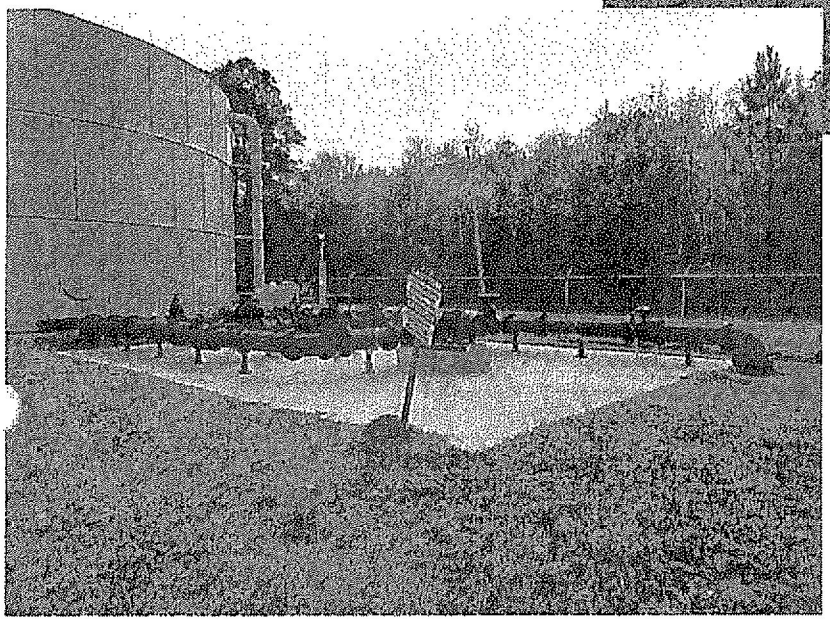


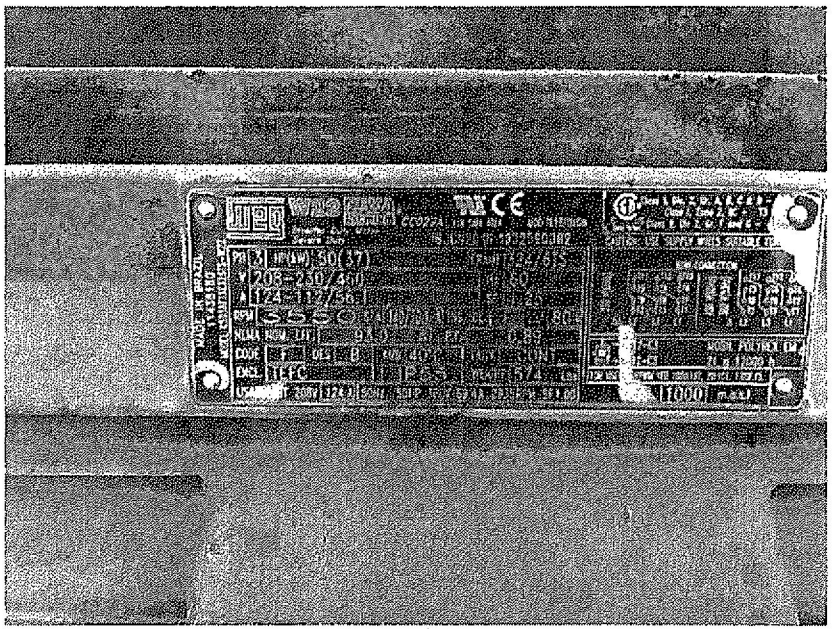

MODEL#
MIDBC MOTOR
CORPORATION

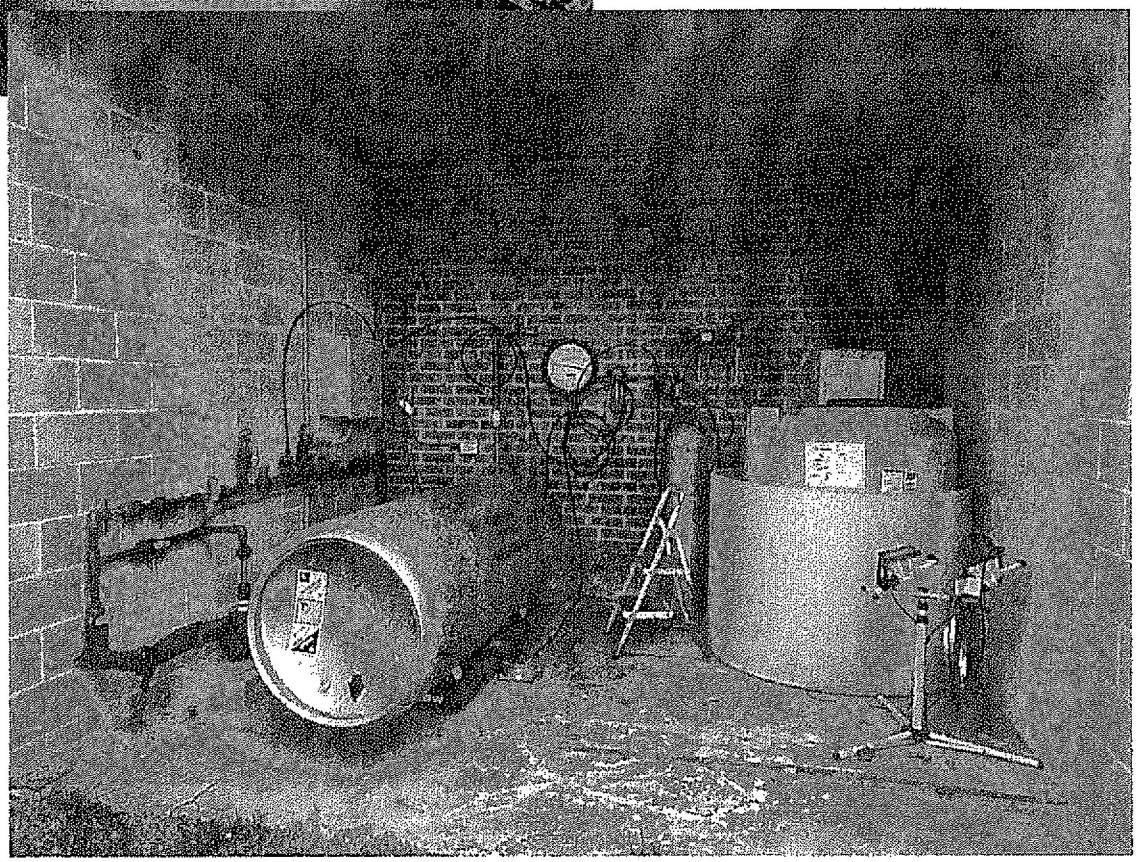



CAT
Warning
1. Max. Test Pressure - 3 psi (21 kPa)
2. Max. Operating Pressure - 1.02 psi (7 kPa)
3. Max. Operating Vacuum - 0.04 psi (280 Pa)
4. For Diesel Fuel Only
5. This tank may contain combustible liquid. Do not use any heat producing equipment or welding equipment to mount generator to this tank.
6. Follow manufacturer's instructions for mounting of generator and ancillary equipment.
7. Consult with Authority having jurisdiction prior to installation.
8. Do not fill tank when dispensing is in operation.
9. This tank is intended for stationary installation only.
10. Pressurize primary tank when pressure testing annular space.
11. Complies with UL 142 and/or CAN/ULC-S601
UNITED ALLOY, INC.
4100 Kennedy Road
Janesville, WI 53545
608-758-4717
www.unitedalloy.com
FOR SECONDARY CONTAINMENT ONLY
c UL us LISTED
Stationary Containment Gasoline Storage Tank
This tank is intended for Stationary Installation only
This tank requires emergency and normal venting capacity not less than
66.00 cubic meters/min
CATERPILLAR
GENERATING SET – ISO3046

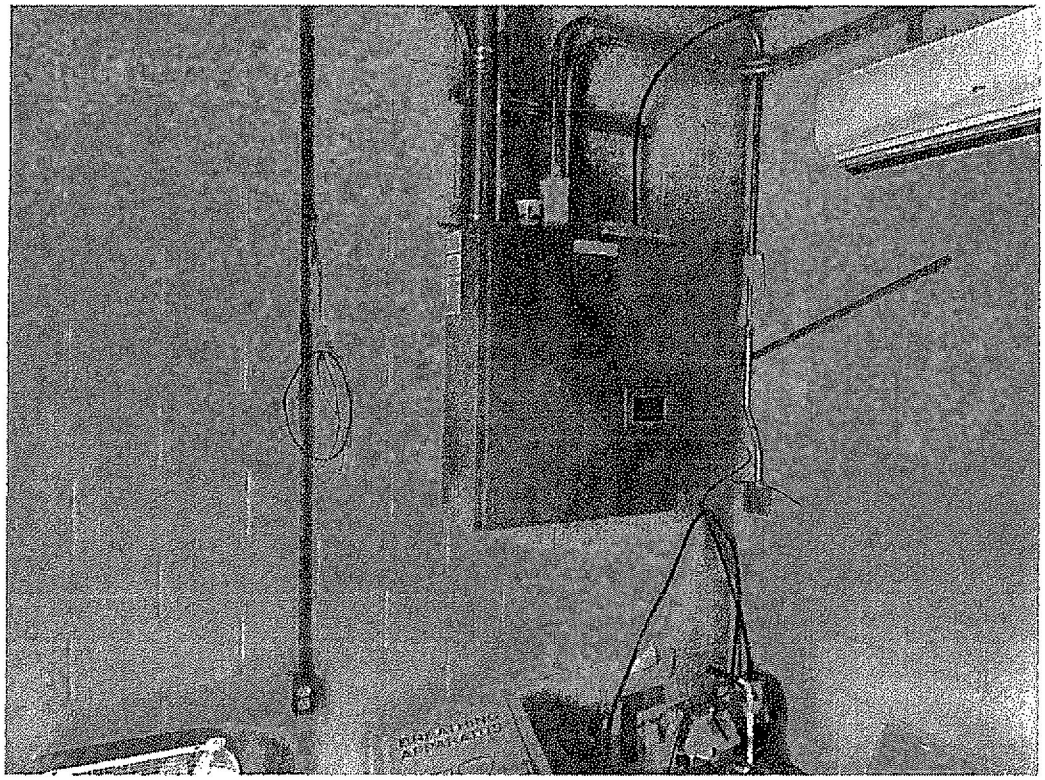


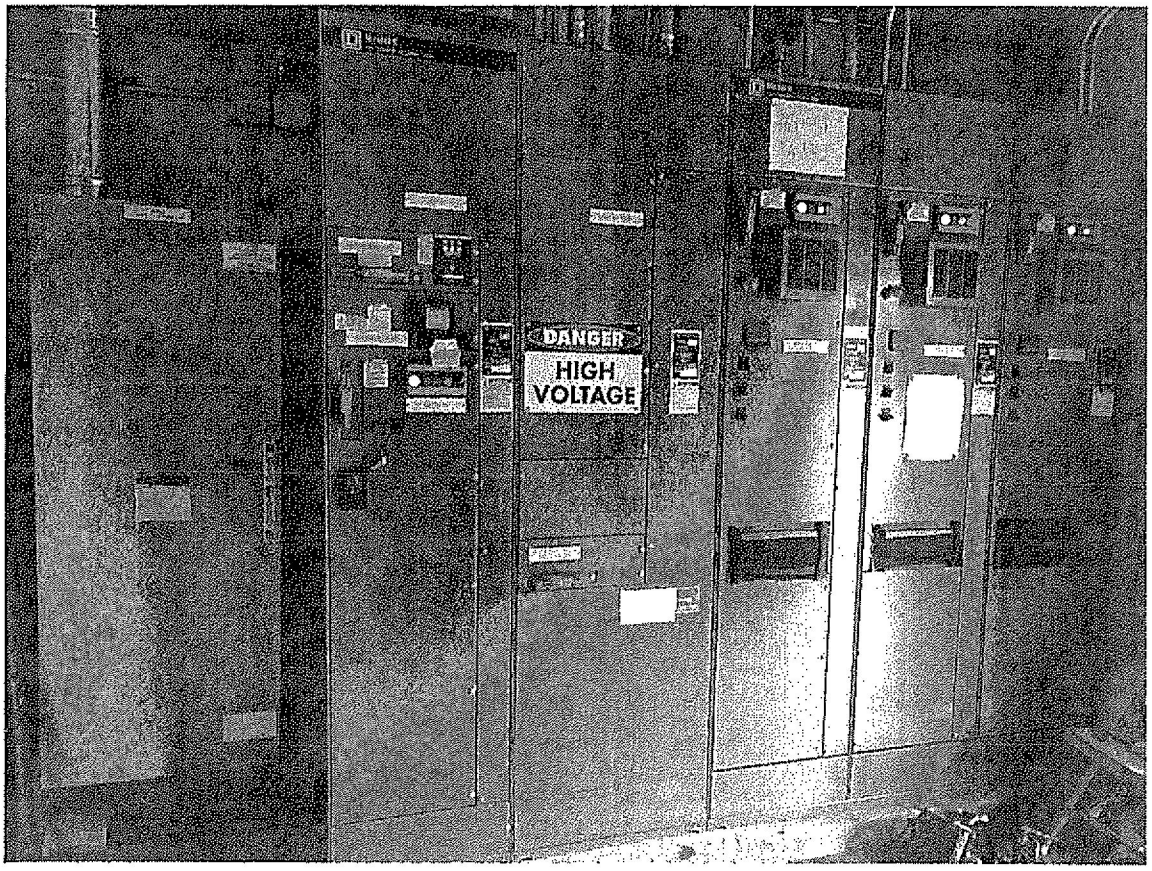




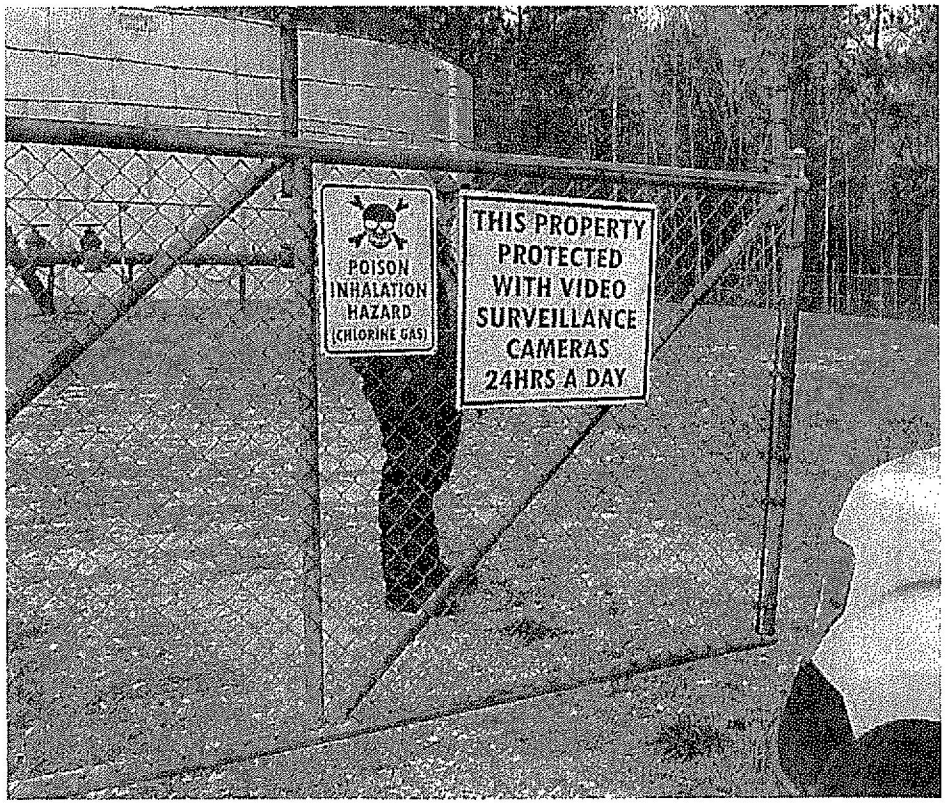


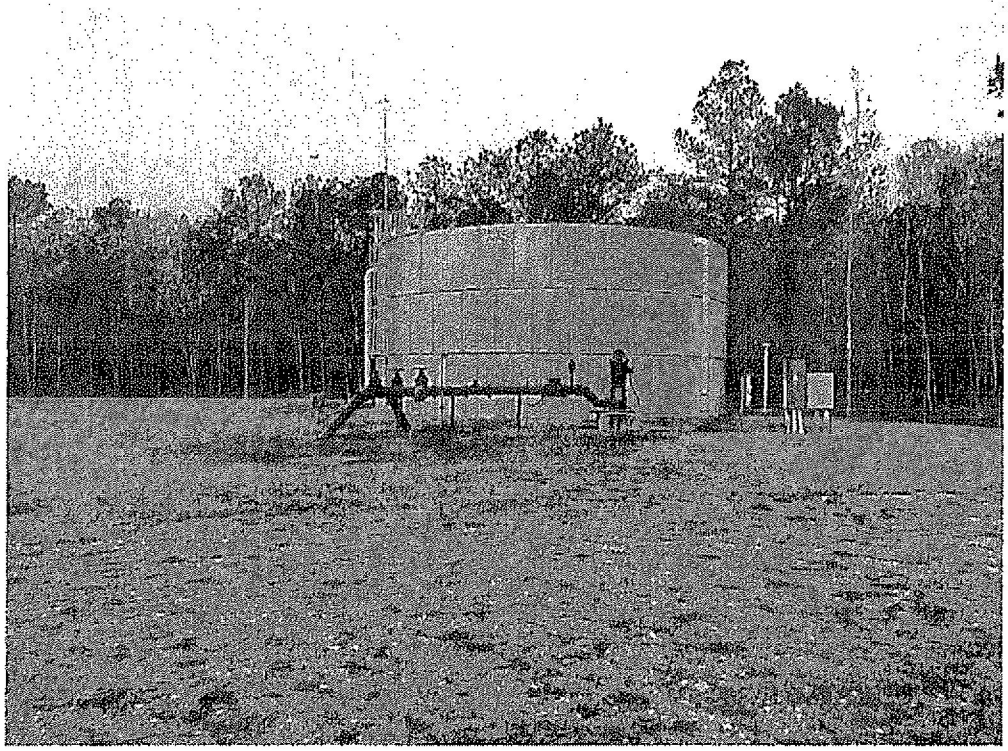

CHLORINE
UN 1017
INHALATION HAZARD

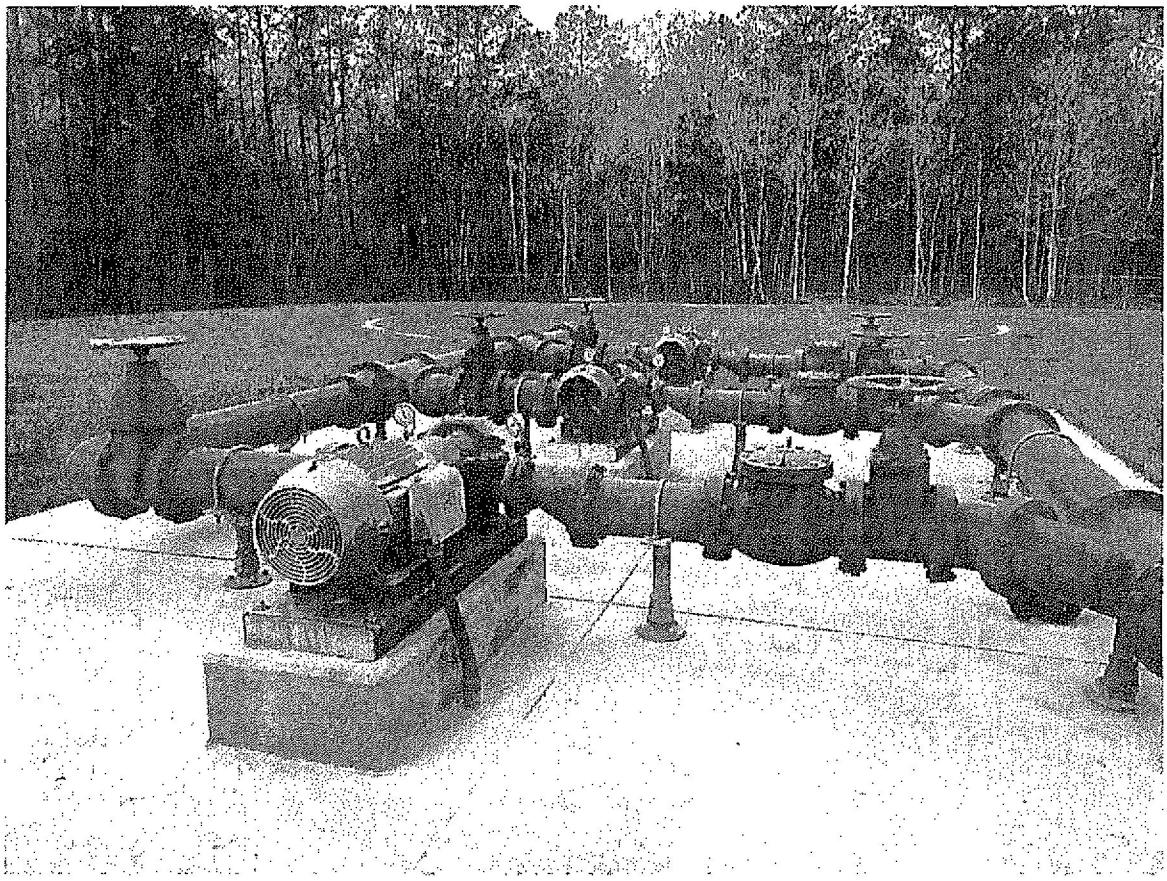


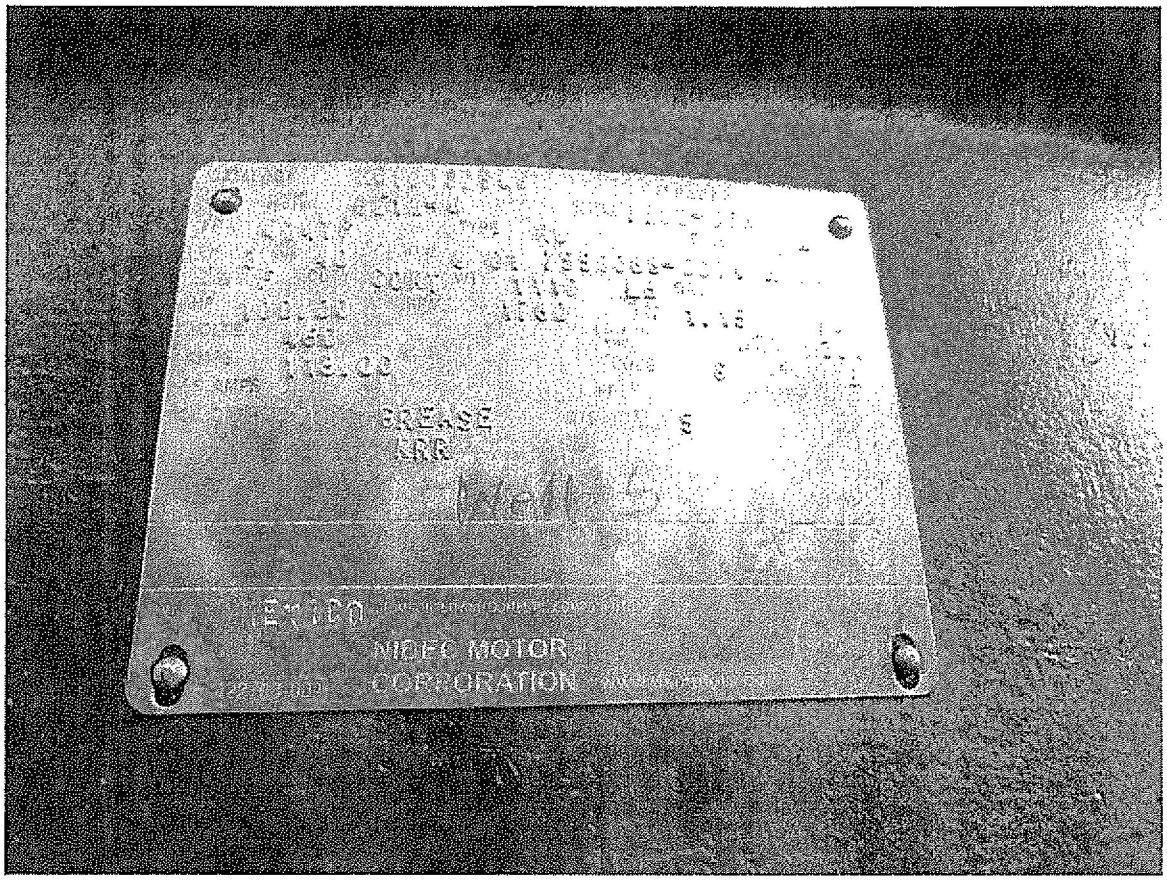

DANGER
HIGH
VOLTAGE

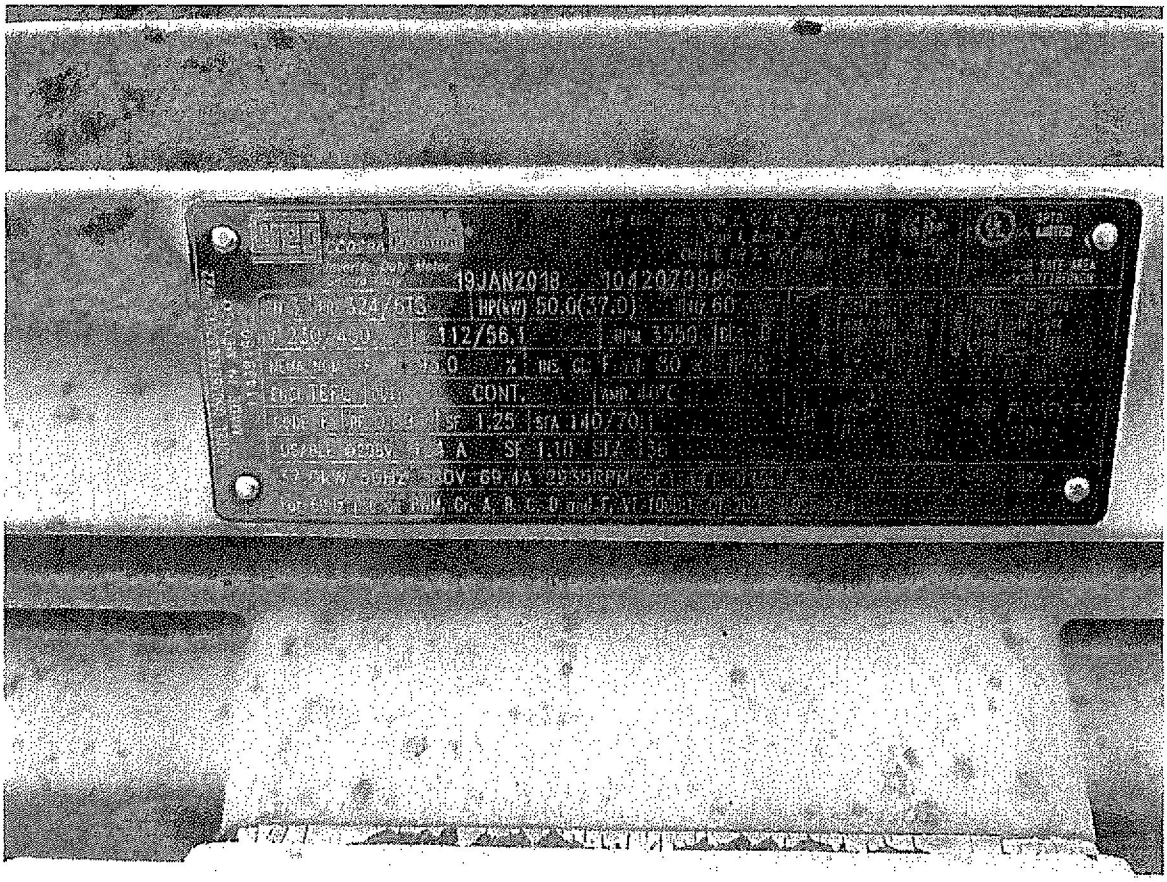
Well Site #5

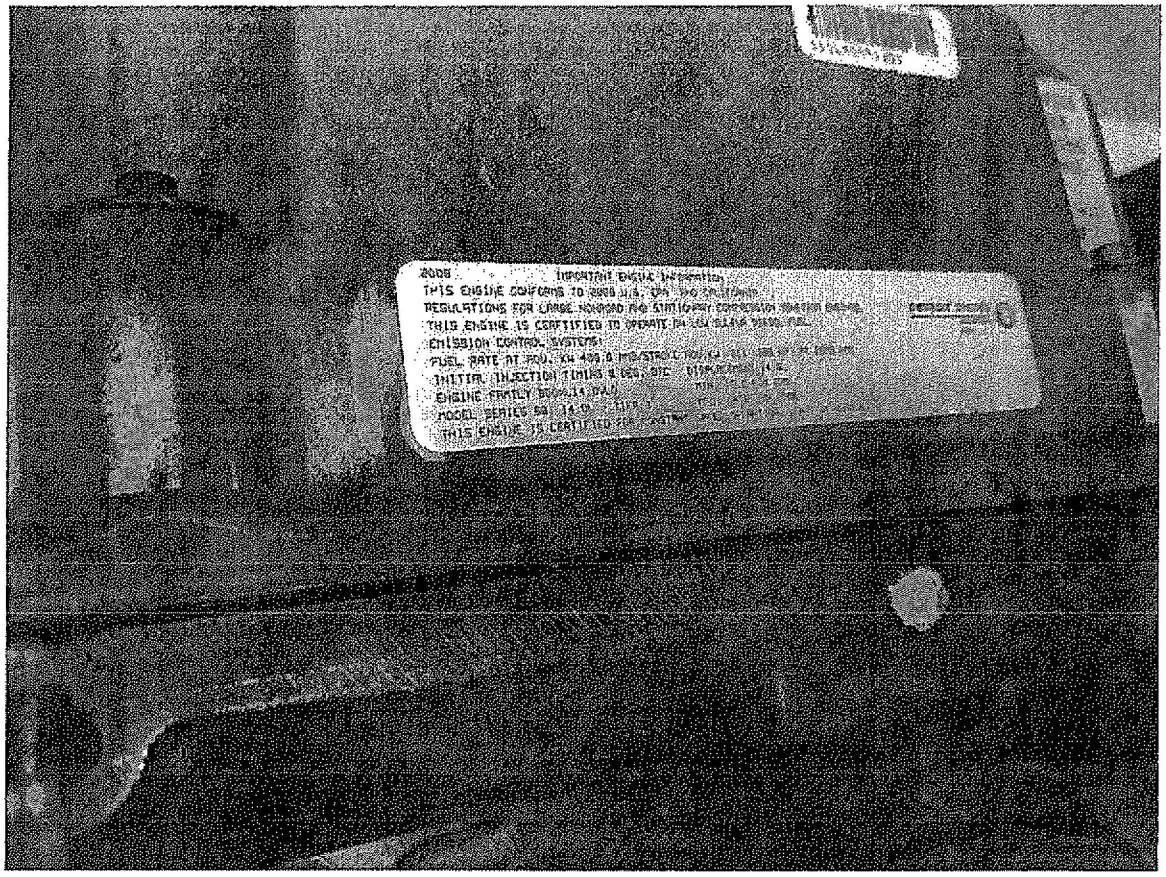

POISON
INHALATION
HAZARD
(CHLORINE GAS)
THIS PROPERTY
PROTECTED
WITH VIDEO
SURVEILLANCE
CAMERAS
24HRS A DAY

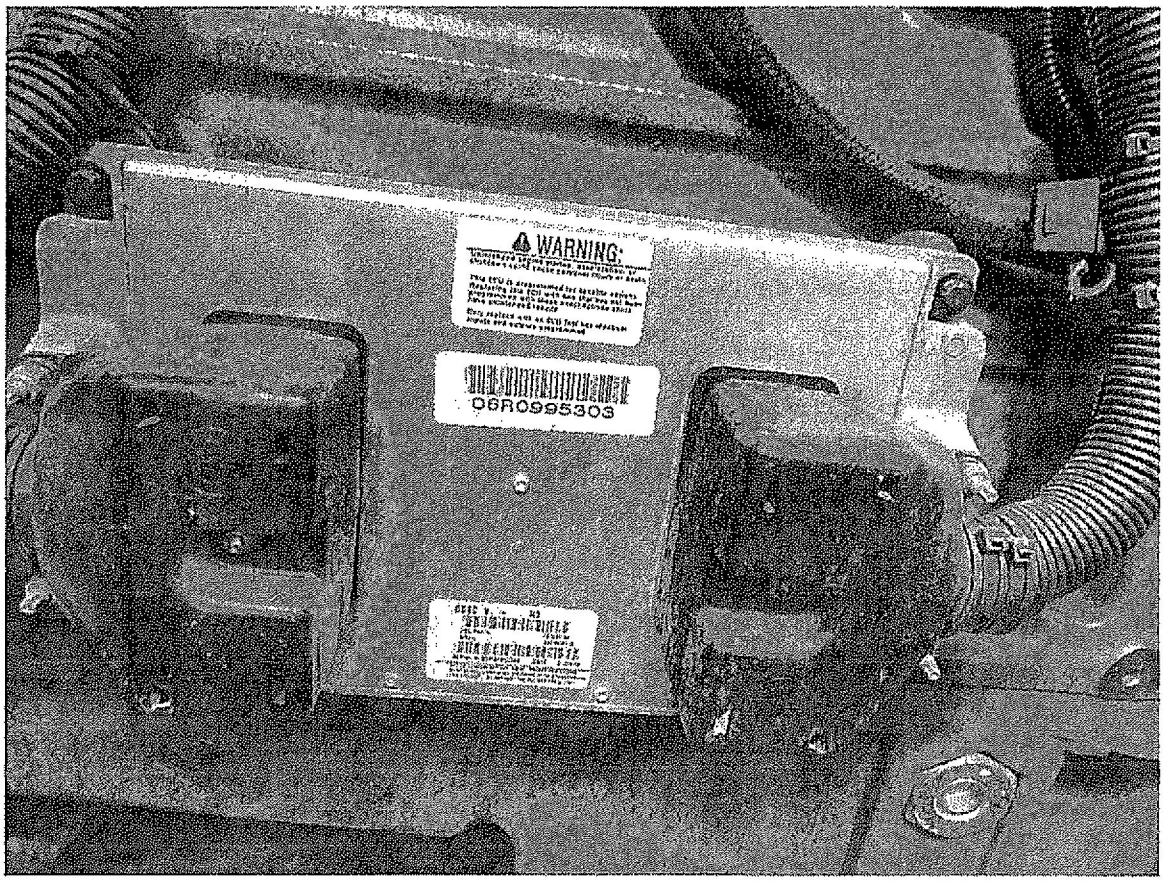


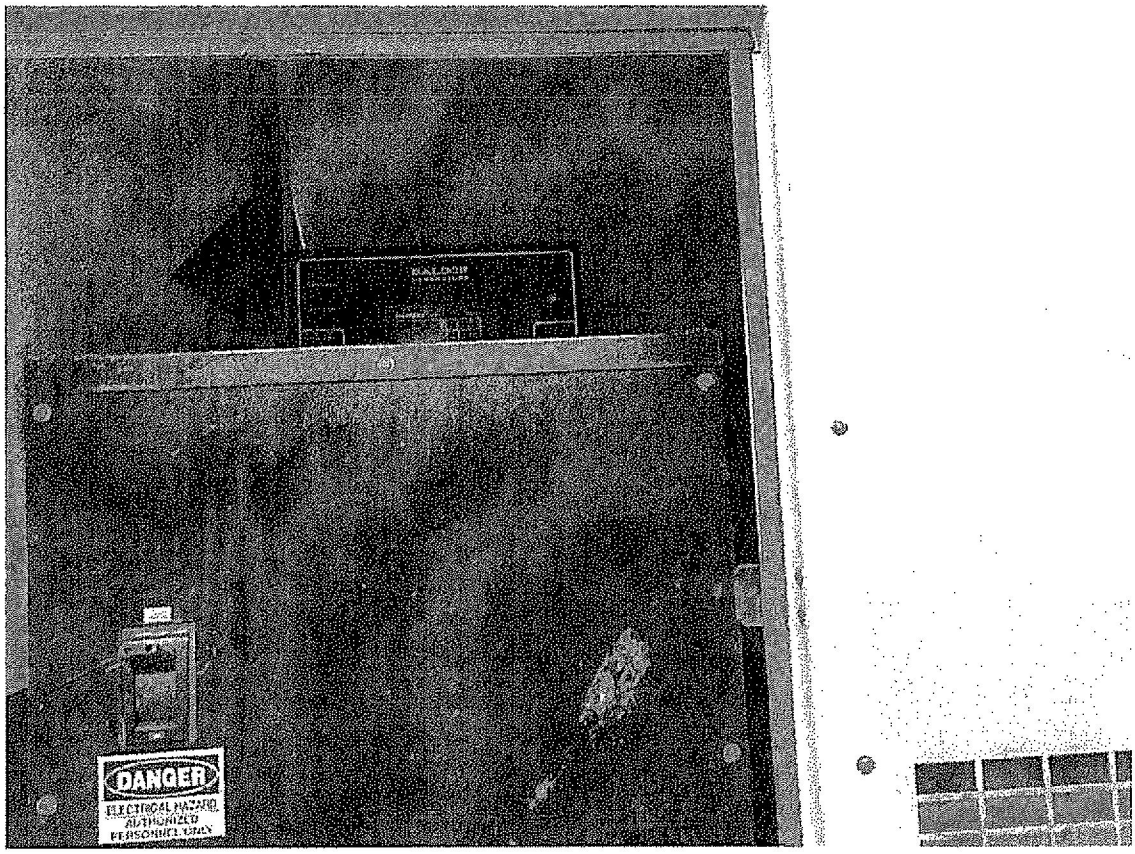


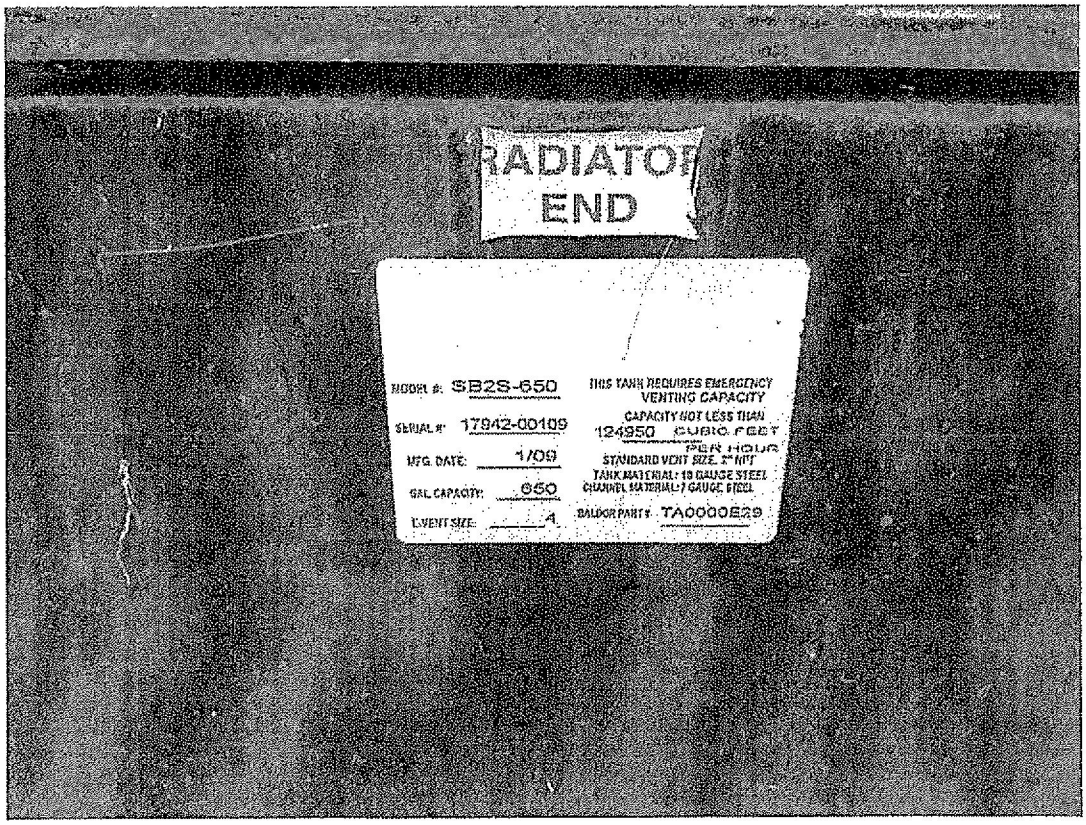

GREASE
NRR
NIDEC MOTOR
CORPORATION


19JAN2018
CONT.


2008
IMPORTANT ENGINE INFORMATION
THIS ENGINE CONFORMS TO 2008 U.S. EPA
REGULATIONS FOR LARGE NONROAD
THIS ENGINE IS CERTIFIED TO OPERATE
EMISSION CONTROL SYSTEM:
FUEL RATE AT RPM, kW
INTAKE VALVE LASH
ENGINE FAMILY
MODEL SERIES
THIS ENGINE IS CERTIFIED


WARNING
06R0995303


DANGER
ELECTRICAL HAZARD
AUTHORIZED
PERSONNEL ONLY


RADIATOR
END
MODEL #: SB2S-650
SERIAL #: 17942-00109
MFG. DATE: 1/09
GAL CAPACITY: 650
VENT SIZE: 4
THIS TANK REQUIRES EMERGENCY VENTING CAPACITY
CAPACITY NOT LESS THAN
124950 CUBIC FEET
PER HOUR
STANDARD VENT SIZE 2" NPT
TANK MATERIAL: 10 GAUGE STEEL
CHANNEL MATERIAL: 7 GAUGE STEEL
BALDOR PART #: TA0000E29

**Patricia Reeh <patricia.reeh@tceq.texas.gov>** 5/11/2023 9:02 AM

# RE: Emergency Response Plan and Risk and Resilience Assessment

To William Garde <will@gardeengineering.com> • cserres@ocwc1.com <cserres@ocwc1.com>

Good Morning-
The TCEQ database shows the EPP was approved on May 7, 2023. You should have received a letter or should be receiving a letter soon.

Regards,
Patty

From: William Garde <will@gardeengineering.com>
Sent: Tuesday, May 9, 2023 8:06 AM
To: cserres@ocwc1.com; Patricia Reeh <Patricia.Reeh@tceq.texas.gov>
Subject: RE: Emergency Response Plan and Risk and Resilience Assessment

Hi Chris,

I'm looping in Patty from the TCEQ. She may have information on the status of your review. To my knowledge it has been sent to TCEQ for approval and there are no additional revisions required.

@Patricia Reeh<mailto:Patricia.Reeh@tceq.texas.gov>, can you provide any update on this?

Thank you for reaching out, Chris. You can also email PDWEPP@tceq.texas.gov<mailto:PDWEPP@tceq.texas.gov> and they should be able to provide you with some more information.

Let me know if you have any issue getting an update.

From: cserres@ocwc1.com<mailto:cserres@ocwc1.com> <cserres@ocwc1.com<mailto:cserres@ocwc1.com>>
Sent: Monday, May 8, 2023 9:41 AM
To: William Garde <will@gardeengineering.com<mailto:will@gardeengineering.com>>
Subject: Emergency Response Plan and Risk and Resilience Assessment

Hi Will,

Can you give me an update on the status of Orange County Water Control & Improvement District No. 1's Risk and Resilience Assessment and Emergency Response Plan that was submitted in December 2021. I know there were some revisions, but I believe all the revisions to the document are corrected. We just have not received any type of certification that our Plan is accepted.

Thanks,

Chris Serres