

STANDARD OPERATING PROCEDURE

CPF

SOP No:008- CPF

SOP Title: Tank Containment
Fabrication

SOP Number 008- CPF

SOP Title Tank Containment Fabrication

	NAME	TITLE	SIGNATURE	DATE
Author	Safety Team	Safety Department		
Reviewer	Upper Management	Safety Committee		

SOP no.	Effective Date	Significant Changes	Revision #	Revision Date
008- CPF			0	

1. PURPOSE

- This procedure is a guideline on the proper way to fabricate a Tank Battery/Farm Containment for construction. Employees at BBGCI will use this as a guide to help them perform their duty in a safe and productive manner.
- BBGCI will be in compliance with all government regulations as well as the regulations set forth by our clients.

2. INTRODUCTION

- BBGCI understands that all jobs are different. This SOP is set in place as a guideline to help employees understand the proper procedure to follow Tank Battery/Farm Containment fabrication for construction.

3. SCOPE

- This procedure has been set in place for BBGCI personnel who will be performing operations for laying out facility for construction.

4. DEFINITIONS

- Tank– a large receptacle or storage chamber, especially for liquid or gas
- Tank Battery/Farm- A group of **tanks** that are connected to receive crude oil production or produced waters from a well or a producing lease.
- One Call - a system through which a person can notify owners/operators of lines or facilities of proposed excavations.
- Line Locate – to determine existence of underground utilities.
- Plot Plan – diagram which shows facility equipment and piping designed location.
- Data Point – beginning reference point established on plot plan
- String Line – string installed a couple inches above ground (on nails) to establish reference points

5. RESPONSIBILITIES

BBGCI Personnel

1. Participate in tailgate meeting and JSEA.
2. Understand the scope of work prior to beginning task.
3. Maintain good communication with all employees involved in this process.
4. Properly inspect all tools before use.
5. Make sure One Call (along with BBGCI line locator) is valid and all utility owners have given “all clear” responses
6. Understand Line Locate Map and Plot Plan

6. SPECIFIC PROCEDURE

Tank Battery/Farm Containment Fabrication

(Personnel Involved: BBGCI Personnel)

1. Before work can commence, a one-call must be made with an all clear from all participating utilities. Properly complete all JSEA's and work permits from the client for ground disturbance then conduct a safety tailgate meetings.
2. Properly inspect all tools to be used.
3. Establish the scope of work, and ensure everyone knows their specific job duty.
4. Survey crew obtains Data points from client.
5. Verify Elevation and starting point. Run string line parallel from data point.
6. Construct containment wall per manufacturer's specifications.
7. Pour sand and level ground per client's specifications.
8. Connect cable-wires for stability (prevents fluids pushing walls out in event of spill.)
9. Drive stakes to the outside of the wall supports per Client and/or manufacturer's specifications.
10. Add sand to cover cable-wires running along the ground.
11. Install the containment liner over the sand.
12. Add pea-gravel to cover bottom of liner.
13. Construct tank support rings/platform where tanks will be set, and fill the support ring with pea-gravel to proper elevation and level off.
14. Place concrete supports which will support T-poles and cat walks.

*Note: For loads of sand and gravel refer to **Forklift Loading/Offloading SOP #002***

15. Construct access crossover stairways for proper ingress and egress of containment.

7. JOB RELATED HAZARDS

Slips, Trips and Fall Hazards:

- Working and walking on uneven surfaces or rocks
- Nails and string line

Wildlife

Heat Stress

Pinch Points and Line of Fire Hazards:

- Producing Obstructions, anchor rods, etc
- Uneven surfaces
- Using hand/power tools improperly

- Struck by hammer/tools
- Moving equipment
- Unidentified underground utilities

Eye Injury

- Flying particles of dust and sand

Muscle/Back Strain:

- Bending over to level gravel/sand
- Bending over to paint marks on ground

8. REQUIRED PPE

- Hard hat
- Safety Glasses
- Steel Toe Boots/ Safety Toe Shoes
- Gloves
- Fire Resistant Clothing (Site Specific)
- Personal Gas Monitors (Site Specific)

9. FORMS/TEMPLATES TO BE USED

- JSEA
- Work Permits (If Required)
- Client Required Forms
- One Call

10. INTERNAL AND EXTERNAL REFERENCES

10.1 Internal References

10.2 External References