SUMP SYSTEM

CA 43 A utilizes a Sump System to contain and send captured liquids back into the Water Skimmer (MBM-2200). The Sump System consists of a Sump Tank (ABH-7010) and a Sump Pump (PBA-4640).

The Sump Tank receives fluids from the open drain system. The oil that is accumulated is stored until a sufficient level is reached to signal the Sump Pump to transfer hydrocarbons to the Water Skimmer. The water is discharged overboard at the +10 from a water leg.
A. PRE-STARTUP & START-UP PROCEDURES

NOTICE: Refer to Preliminary Considerations in SECTION 3, PART A before beginning any start-up procedures.

1. Verify all deck drains throughout the facility are open and free from obstruction.

2. Verify that all drain valves and non-process vents on the Sump are closed
   a. Sump Tank, ABH-1000

3. Verify Sump Tank oil bucket outlet is open to the Sump Pump suction and the discharge is open to the Water Skimmer

4. Verify that the Sump water outlet is open to allow the water to flow overboard

5. Continue facility start-up
   REFER TO: SECTION 3, PART B (step 2)

6. Pull the “Pull to Reset Process Group” relay on the MCP to bring safety systems in service and open the pump supply SDV

7. Verify that no Sump Tank safety devices are in bypass

8. Manually activate the Sump Pump LC to verify the controller is prepared to automatically handle the level in the Sump

9. Immediately begin using Normal Operating Procedures to continue monitoring system
   REFER TO: SECTION 5, PART S
B. **SHUT-DOWN PROCEDURES**

**NOTICE:** Refer to Preliminary Considerations in [SECTION 4, PART A](#) before beginning any shut-down procedures.

1. **In order to shut-down the Sump a facility process shut-in is required**

   REFER TO: [SECTION 4 (Facility Shutdown Procedure)](#)

2. **If necessary, either Sump Pump can be shut-down for immediate maintenance/repair**

   **NOTICE:** Shut-down of the Sump Pump will cause a level to accumulate in the corresponding Sump Tank. The sump must be monitored at all times and returned to service before a high level or additional shut-downs will be required.

   - a. Manually activate the pump run signal at the sump to pump down the level before shut-down of the pump
   - b. Close manual block valves to isolate the pump discharge
   - c. If necessary, use LO/TO procedure to isolate the electric motor
   - d. Use appropriate collection to bleed down and drain the pump before beginning work
   - e. Continuously monitor the process system and the level within the sump so that further shut-down action can be taken as needed

   **NOTICE:** If shut-down was performed as preparation for maintenance work, or if the cause of the shutdown requires corrective action/repair, continue with Lock Out/Tag Out (LO/TO) Procedures

   REFER TO: [Fieldwood Safe Work Practices for LO/TO (Section D Chapter 5)](#)

   (can be found on the Fieldwood SEMS Portal)