



KNIGHT FIRE SPECIALISTS, LLC.

Standard Operating Procedure (SOP)

“ON GUARD”

CAFS UNIT

Pre-Job & Initial Set Up

1. Designate the best area to position the On Guard for rig up.
2. Once positioned, check all fluid levels – diesel fuel, engine oil, fire foam concentrate.
3. Install 4” male X 3” female camlock frac tank connection to water source.
4. Layout 25’ jacketed heated 3” suction hose.
** In Freezing conditions connect to 120 VAC Power Source **
5. Position both fire hose reel skids in pre-determined designated areas.
6. Deploy 1-1/2” lay-flat discharge hoses from On Guard to each fire hose reel skids.
** Avoid tight turns to ensure discharge hose will not kink with pressured up. **
*** Make sure both discharge hoses are of equal length to each fire hose reel skids. ***
**** Add additional hose if required or reposition hose reel skid if necessary. ****
***** Never drive over the lay-flat hoses, damage hoses will interfere with operations *****
7. Make sure no kinks are in discharge hoses.
8. Confirm pump drain is closed, and open frac tank valve.
9. The On Guard is now ready to be TESTED.
** Make sure both fire hose nozzles at the hose reel skids are open before starting the On Guard. **

FOR SERVICE, PLEASE CALL STEPHEN KNIGHT (405) 845-5444

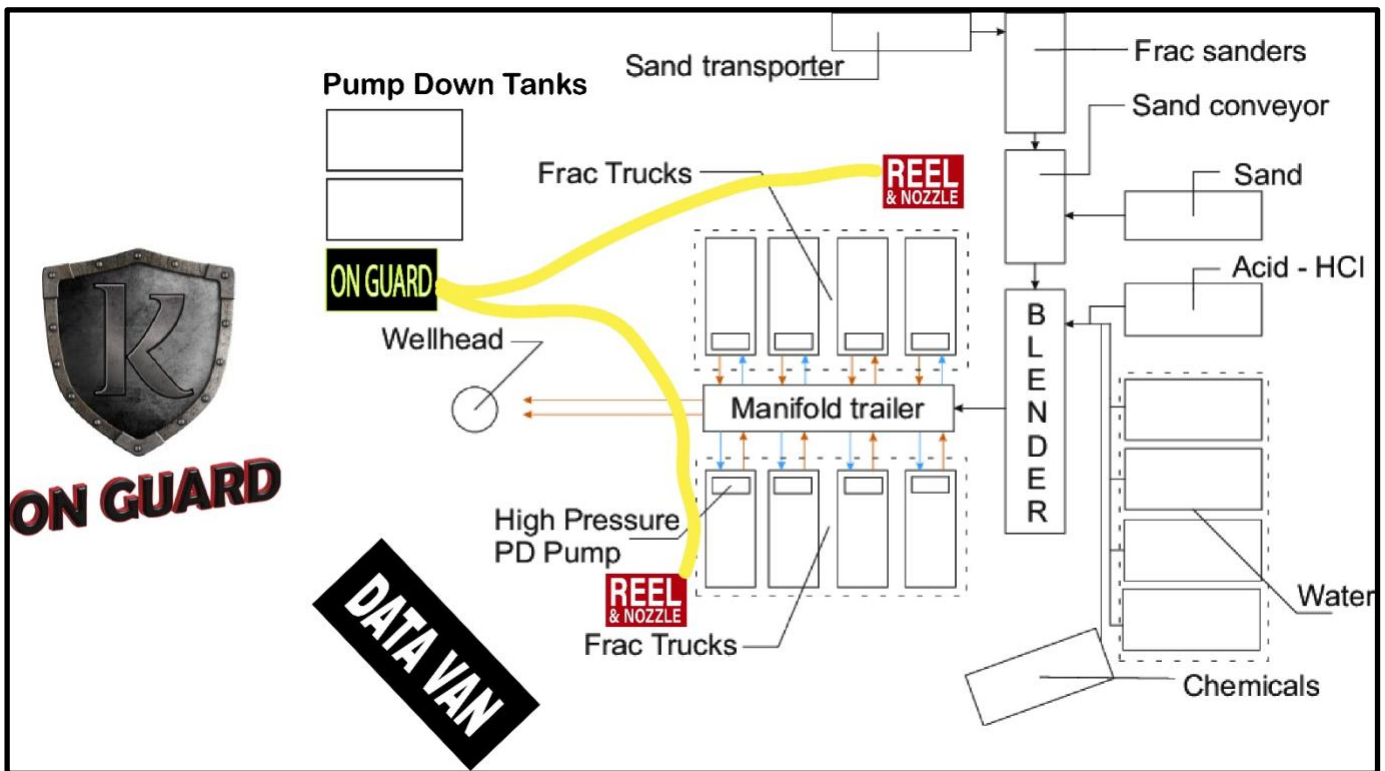
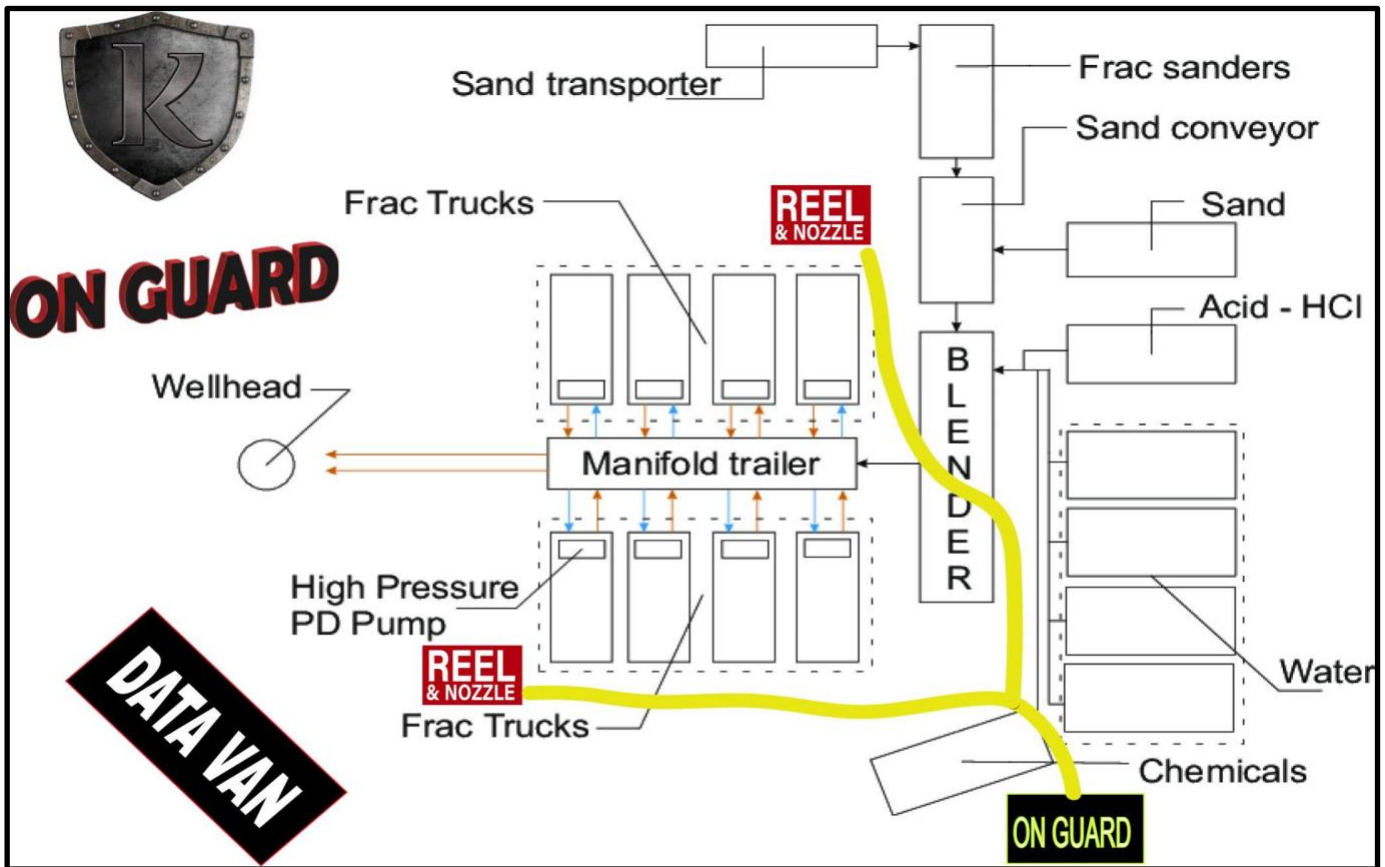
FUNCTION TEST

1. Station designated personnel at fire hose reels prior to start up.
2. Confirm that both fire hose nozzles are in the fully open position.
3. Turn the key switch at the On Guard control panel to the **ON** position (green light will come on).
4. Startup can now be initiated by pressing green button at the On Guard or data van.
5. At the hose reel skids, keep nozzles in the fully open position until all air is evacuated, and water/foam flow is achieved.
** This will be confirmation that the system is ready or emergency operating. **
6. Now blow out the lines by pushing and holding in the black line purge button (Located just below green start button).
** Hold line purge button until water and foam is purged from all hoses and nozzles **
7. When all lines are purged, continue holding line purge button in and pull out the green button shut down the On Guard.
8. **COLD FREEZING CONDITIONS – Only drain the water pump drain by using the drain handle only when *STORING THE UNIT* or *BETWEEN JOBS*.**
9. **COLD FREEZING CONDITIONS – MAKE SURE EXTENSION CORDS FOR INTERNAL HEATERS ARE PLUGGED IN AND DO A VISUAL CHECK REPEATEDLY THROUGHOUT THE DAY TO ENSURE THE HEATERS ARE ON AND THE UNIT STAYS THAWED OUT AND IN GOOD WORKING CONDITION**

During a fire related emergency

1. Do not panic – STAY CALM.
2. Know your surroundings.
3. Locate windsock and check wind direction.
4. Plan escape route.
5. Man both nozzles and position to the fully open position before starting the On Guard.
** This will allow all air in the lines to vent. **
6. Startup can now be initiated by pressing green button at the On Guard.
7. Advance nozzle towards fire and stop at safe distance.
8. Determine seat of fire and direct full water/foam stream at seat of fire and begin extinguishment.
9. Check beneath equipment to ensure that all hydrocarbons have been fully extinguished and covered by blanket of the water/foam solution.
10. After flames are extinguished, continue to cool all equipment to prevent re-ignition.
11. **Caution:** Make sure hoses are blown down after use in Freezing Conditions.

Best scenarios for On Guard fire suppression system placement.



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