



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. (SEE RECOMMENDATIONS)
2. Once positioned, check all fluid levels – diesel fuel, engine oil, fire foam concentrate.
3. In winter weather ensure On Guard is plugged into an outside 120 VAC Power Source
** generator or light plant. **
4. Install 3” male X 3” female camlock hose from water source to On Guard.
** Provided from KNIGHT is a 25’ jacketed heated 3” camlock hose for winter weather.*
** In Freezing conditions connect to 120 VAC Power Source (PLUG INTO ON GUARD)**
5. Position both fire hose reel skids in pre-determined designated areas. (SEE RECOMMENDATIONS)
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 hoses 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 hoses.
8. Confirm pump drain is closed, and open water source valve (or valves).
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 CHAD JAMES (580) 339-3082 OR SPENCER MURPHY (405) 902-3704

FUNCTION TEST

1. ENSURE WATER SOURCE VALVES ARE OPEN.
2. Station designated personnel at fire hose reels prior to start up.
3. Confirm that both fire hose nozzles are in the fully open position.
4. Turn the key switch at the On Guard control panel to the **ON** position (**GREEN** light will come on).
5. Startup can now be initiated by pressing **GREEN** button at the On Guard. 
6. At the hose reel skids, keep nozzles in the fully open position until all air is evacuated, and full water/foam flow mix is achieved.
** This will be confirmation that the system is ready for emergency operation. **
7. Now blow out the lines by pushing and holding in the black line purge button OR turn flush switch to the right. (Located just below **GREEN** start button) and CLOSE **WATER VALVE**.
** Hold line purge button OR switch until water and foam is purged from all hoses and nozzles.*
8. When all lines are purged, continue holding line purge button in OR turn flush switch to the right and pull out the green button to shut down the On Guard. Continue to purge until the engine is off. (SUMMER WEATHER DOES NOT REQUIRE PURGING LINES)
9. **COLD FREEZING CONDITIONS – Only drain the water pump drain by using the drain handle only when **STORING THE UNIT** or **BETWEEN JOBS**.**
10. **WINTER CONDITIONS – MAKE SURE EXTENSION CORDS FOR INTERNAL HEATERS ARE PLUGGED IN TO OUTSIDE 120 VAC POWER SOURCE 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 – CHECK THE CAMLOCK HOSE HEAT TAPE TO ENSURE IT IS PLUGGED IN.**

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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 all nozzles and position nozzles 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. 
*** ENSURE WATER VALVES ARE OPEN AND CONTROL PANEL IS ON***
7. Advance nozzles 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 (**PURGED**) after use in WINTER Conditions.

Best scenarios for On Guard fire suppression system placement.

