Maintenance Checklist

Inspection Date ___________________ Inspector ______________________

Note: This checklist is designed for general use. Some items may not apply. All equipment inspections and maintenance should be documented. You are encouraged to make copies of this checklist. See the corresponding maintenance procedures and your owner’s manual for corrective actions and more details.

Weekly Maintenance:
☐ 1. Check leak detector for indication of fluid in interstice. (This is required by warranty.) If checked with a stick gauge, ensure the stick is clean and dry before insertion.
☐ 2. Check for leaks on the pumps, filters, hoses, nozzles, joints and fittings.
☐ 3. Check nipples, spill containment and manholes for paint or powder coating decay (required by warranty). Check piping and fitting for rust.
☐ 4. Check pump meter and reset button.
☐ 5. Check fuel gauge for proper operation. If you have a Kruger At-A-Glance Gauge, check the clear cap for weathering or cracks.
☐ 6. Check spill containment for debris.
☐ 7. Check for small cracks in concrete.
☐ 8. Check readability of signs and decals.

Monthly Maintenance:
☐ 9. Check for water in the primary tank bottom under the fuel (required by warranty).
☐ 10. Visually check the tank, including under the tank for any signs of leakage as required by the Environmental Protection Agency 40 CFR 112.
☐ 11. Check leak detector tube cap for corrosion and proper operation. If a Kruger manual leak indicator is installed, remove the red ring and clear cap and check to see that the red indicator moves up and down about 1 inch freely. Also, check for weathering or cracks in the clear cap. If electronic leak detection is installed, check it by using the test button.
☐ 12. Check all nozzles, hoses and fittings for wear and tear.
☐ 13. Check trigger mechanism on nozzle for metal fatigue or mechanical failure.
☐ 14. Check pump motor for signs of over-heating or excessive wear.
☐ 15. Check body of tank for cleanliness, need of paint, or rusting where applicable. Check signs and decals for need of replacement. Check slab and supports of unit for structural soundness.
☐ 16. Check grounding wires to see that they are properly attached to the tank terminals and grounding rod.

Other Periodic Maintenance:
☐ 17. Replace the dispenser filter at least every six (6) months or as needed (mark the date replaced on the filter).
☐ 18. Check fuel for bacterial infestation or microbial growth.
☐ 19. Have a qualified person periodically check all electrical wiring.
☐ 20. Check the emergency relief vent at least once a year by lifting the top cap and releasing it to ensure freedom of movement.
☐ 21. At least once a year, remove the leak detection device and check for proper operation.
☐ 22. At least once a year, check the calibration of the fuel gauge.
☐ 23. Follow the pump manufacturer’s recommendation for frequency and procedures of maintenance.
☐ 24. Document significant storage events per 40 CFR 112 and your state regulations.
Maintenance Procedures

Please note that item numbers on this sheet corresponds with the item numbers on the Maintenance Checklist. Most of the maintenance requirements and procedures are also covered in the Convault owner’s manual.

**Weekly Checks:**
1. If leak detector indicates fluid in the interstice, remove any devices and determine what the fluid is. Call your Convault representative.
2. If leaks are detected, contact the appropriate authorities as necessary. Tighten, repair as necessary, replace components, or contact your installer or service company.
3. If paint or powder coating deterioration occurs on nipples, spill containment or manholes, clean to bare metal, prime with a good quality zinc based primer, and repaint. If corrosion is severe, contact your Convault representative as soon as practical.
4. If dispenser meter is not working or will not reset, call your service company or installer.
5. If the fuel gauge fails to operate properly, repair/replace it, or call your service company before the next delivery. (It is the owner/operator's responsibility to prevent the overfilling of the tanks. The gauge is part of the required system to prevent overfilling.) If the Kruger cap has deteriorated, it could be allowing rainwater into the primary tank and should be replaced.
6. Keep spill containment clear of debris at all times. A contaminated spill containment will cause the fuel to be contaminated when any spill is released through the drain into the primary tank. Materials such as rags or paper products used to clean the spill containment must be disposed of properly, as they will usually contain fuel from the spill containment.
7. If there are small cracks in the concrete, fill and repair them. If you have questions, call your local Convault representative.
8. If signs or decals lose visibility, order replacements from your local Convault representative before the next time the tank is filled.

**Monthly:**
9. If there is water in the tank it will collect at the bottom, under the fuel. Water in the tank will cause increased corrosion. If you discover water in the primary tank it must be removed. One method is to pump it out with a “Thief Pump”, a small pump that pulls the water from the bottom 1/8” of the tank. Check tank openings for possible water entry points. If you find that you are pumping out more than one half gallon of water for every 1000 gallons of product stored, see your fuel dealer, or call your Convault representative. Also consult item (I) in the maintenance section of the owner’s manual.
10. If you detect leakage, determine what the liquid is, if possible, and call your Convault representative and appropriate authorities as necessary.
11. If there are problems with the leak detector tube or lock, clean and lubricate them as necessary. See item (G) in the maintenance section of the owner’s manual. If the Kruger leak indicator does not function properly, remove it and repair or replace it. Due to ultraviolet radiation, the clear cap on the Kruger leak indicator will deteriorate over time. If it has deteriorated, it could be allowing rainwater into the interstitial area and should be replaced. New caps and rings or entire units can be purchased from Kruger, your service
company, or your Convault representative. Kruger now offers a guard, which will prolong the life of the cap. If electronic leak detection test fails, call your service company.

12. If nozzles, hoses or fittings exhibit signs of wear and tear, repair/replace as necessary or call your service company.

13. If trigger mechanism on nozzle exhibits signs of metal fatigue or mechanical failure, replace nozzle or call your service company.

14. If pump motor shows signs of overheating or excessive wear, repair as necessary or contact your service company.

15. Clean, paint, and repair problem areas as necessary. Order replacements signs or decals from your local Convault representative. If the slab is cracking or settling, contact your local Convault representative and your slab installer. If you have questions, call your local Convault representative.

16. If grounding wires are not attached properly, make appropriate changes or call your installer or your service company.

**Other Periodic Maintenance:**

17. Filters can be purchased from your Convault representative or local service company. The date can be scratched on with a sharp object, or written with a permanent marker.

18. If bacterial infestation is detected, consult item (H) in the maintenance section of the owner’s manual.

19. Repair as necessary. Wiring (other than intrinsically safe items) in a class 1 area requires special sealing to prevent explosions.

20. If the emergency relief vent exhibits signs of motion restriction, promptly call your installer, your service company, or your Convault representative. Proper operation of this device is critical as most injuries and fatalities that happen in conjunction with fuel fires are due to improper, non-functional emergency relief vents or emergency relief vents replaced with normal pipe caps.

21. Most leak detection devices use a float. By removing the device from the leak detector tube and turning it upside down (simulating a floating situation) you can easily check for movement of the float and proper mechanical or electronic indication. If the leak detection device fails to operate properly, call your installer or your service company.

22. The fuel gauge can be checked by “sticking” the tank and comparing it to the gauge reading. Some gauges are more accurate than the stick. If the gauge reading varies substantially from the stick reading, contact the gauge manufacturer or service company. If your stick reads in inches only and you need a calibration chart, contact your Convault representative.

23. Pump maintenance requirements vary by manufacturer. If you have questions, contact your installer, local service company, or the manufacturer of the equipment.

24. If you have a warranty or environmental problem down the road, documentation will be very helpful. We recommend that you keep a copy of the “Maintenance Checklist” with items marked for every maintenance inspection. Notes about problems and corrections can be written on the back of the sheet and used for future reference. Many sites are now required to have a SPCC plan for emergencies on file. If you need a recommendation for companies that do this, please call your Convault representative. **The name, phone number and location of your local representative can be obtained from the Convault web site by clicking on “Local Distributor” and your state or country at http://www.convault.com.**