



# FAYETTE FIRE DEPARTMENT

## TNT Rescue Tool Inspection Procedure

This document assumes the personnel performing the procedures listed have the working knowledge of the equipment necessary to safely and efficiently perform the tasks detailed below. Please consult a line officer if there are any questions pertaining to the operation and maintenance of the equipment in question.

**To be completed after each use and as a part of the regular monthly check.**

Procedure:

1. Clear an area of suitable size to allow for the removal and unpacking of the hydraulic power unit, hoses, and the tools themselves for inspection, operation, and cleaning.
2. Remove the power unit and all hoses from the truck compartment
  - a. Two people may be required for safe removal of the power unit
3. Check the power unit engine fuel level, engine oil level, and pump hydraulic fluid level and add as necessary. Ensure the valves on the pump are closed at this time.
4. Layout and inspect all hoses for signs of damage.
5. Connect the hoses to the power unit.
6. Start the power unit and allow it to idle while retrieving a hydraulic tool.
7. Connect a hydraulic tool to the power unit, open the pump valve, and work the tool through its complete range of motion in both directions.
8. With the tool fully open/extended:
  - a. Close the valve on the pump.
  - b. Clean the surfaces which are typically inaccessible in the stored position with a rag and light oil (WD40 or equivalent).
9. Open the pump valve and close/retract the tool to the storage position:
  - a. Spreaders – Tips ~1/2” apart.
  - b. Cutters – Gap between blades to be ~1/2” at widest gap (tips will overlap)
  - c. Rams (3) – Bottom the ram out (fully retracted) and then bump it out ~1/8” to relieve the pressure.
10. When finished, close the pump valve and work the tool controls to ensure that the lines have equalized pressure.
11. Disconnect the tool and clean it using a rag and light oil (WD40 or equivalent) making sure to clean up any spilt hydraulic fluid.
12. Place the checked tool back into the appropriate storage compartment on the truck.
13. Repeat for each hydraulic tool on the truck.
14. Once each tool has been checked over, operated, and cleaned, shut down the power unit by closing the fuel shut off valve, allowing the engine to run until it stalls.
15. Disconnect the lines and clean them with a rag and light oil (WD40 or equivalent).
16. After allowing sufficient time (15-20 minutes) for the power unit to cool, place it back into the compartment on the truck along with the rest of the equipment not previously stowed.

**Complete & Check off each numbered step above.**

**INITIAL & DATE: \_\_\_\_\_**