

Northern Illinois Fire Inspectors Association

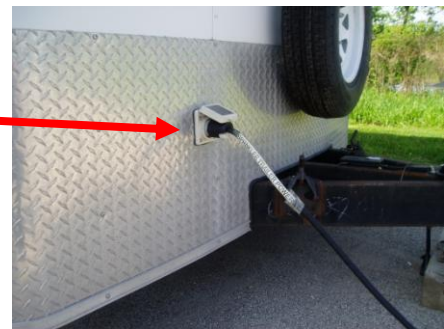
Fire Sprinkler Demonstration Trailer

1. Towing the trailer

- The vehicle towing the trailer must have a class III hitch.
- The receiver and sway bars stays with the trailer and must be used to tow the trailer.
- The trailer brake light connector has a round 6 prong adapter and must be connected before towing the trailer.
- The trailer has electric brakes on it incase the vehicle that is towing the trailer has the capability of powering the brakes.
- There are 4 leveling jacks on the bottom of the trailer in each corner. These must be retracted up before the trailer is moved.
- Check to make sure that all pins and clips are in place, all brake lighting works, wood blocks for chalking the wheels are removed and all doors are locked before towing.

2. Setting trailer up for a demonstration

1. Unhook the trailer from your tow vehicle and put down the leveling jacks. There are 4 jacks, one at each corners of the trailer.
2. Wheels of the trailer must also be chaked with the wooden blocks that are supplied.
3. Connect the trailer extension cord to the Receptacle on the outside of the trailer to A 110 outlet or generator.
4. Decide on how you will supply the trailer with water. There is a 200 gallon tank and pump or there is 2 – 50' 2 1/2" hoses to hook directly to a hydrant or engine.



5. Install new sprinkler head in the burn room using the provided wrench.
6. Fill waste basket with newspaper and drape cotton (100%) material over the curtain rod and into the basket. NOTE: Cotton should be cut to approximately 3'L x 2'W.
7. Test smoke detector and exhaust fans to make sure they work prior to the demonstration.
8. Open outside window covers and put stairs in place at each door.
9. Close all valves inside and outside.



3. Conducting burns using the onboard Tank and Pump

IMPORTANT: Always conduct a practice burn before demonstrating to an audience.

1. Fill water tank up completely. NOTE: **Do not** conduct burns with less than ¼ tank of water.



2. Open the fill cup next to the pump to release the air in the system. Close when air is out of system.



3. Open the control valve for the system.



4. Turn on switch for pump. Pump will start to build pressure in the system.

5. **IMPORTANT:** Make sure that the control valve is in the open position.
6. Start fire in the garbage can in the burn room.
7. Sprinkler head will activate and put out the fire.
8. Just after the fire is out, turn on the exhaust fans for both rooms.



9. If for some reason the sprinkler head does not activate, open the Deluge Valve to put the fire out.

10. Close the control valve and the system will hold its pressure for the next burn.
11. Turn pump switch off. If pressure goes down start back at # 2

4. **Conducting burns using water from engine or hydrant**

IMPORTANT: Always conduct a practice burn before demonstrating to an audience.



1. Connect lengths of hose to the outside FDC on the trailer to your water source.



2. Make sure that the control valve is in the closed position.

3. Open the hydrant or other water source.
4. Install a new quick response sprinkler head in the burn room.
5. Open control valve to fill the entire system up.
6. Start a fire in the garbage can in the burn room.
7. Sprinkler head will activate and put out the fire.



8. If for some reason the sprinkler head does not open, open the Deluge Valve to put the fire out.

9. Just after the sprinkler head activates, turn on the exhaust fans for both rooms.

5. Clean Sprinkler Trailer before returning

1. Please put all electric cords, brooms, etc. in the closet
2. Sweep and mop floors.
3. Empty burned material from garbage can.
4. Wipe down counters.
5. Advise NIFIA if any repairs need to be made.

THANK YOU!

