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## **TOPIC #20            TYPES OF LINES, HOSE LOADS AND DESIGNATIONS**

### **Supply Line:**

A supply line is a hose line that connects the discharge of a hydrant with the intake of a pumper. The primary job of this line is to supply a source of water for the pumper. Every company should be responsible for their own supply. Supply is always 5", unless ordered otherwise by an officer.

### **Fire Line:**


A fire line is a hose line (of varying lengths) connected to the discharge of a pumper that leads directly to a water distributing tool. The primary job of a fire line is to deliver water to the *fire*. Fire lines can be the primary line or additional lines laid to support initial operations or go to remove areas of the building.

### **Back-up Line:**

A back-up line is a second fire line, laid to back-up another. A back-up line must be larger, or the same size in diameter, as the line it is to back-up. **Back-up doesn't mean 2<sup>nd</sup> fire line.**

### **Relay Line:**

A relay line is a hose line laid from the discharge of one pumper to the intake of another. A relay line is used for transferring water from one pumper to another, when the length of the supply line demands the insertion of additional pumpers due to pressure requirements.

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## HOSE LOADS

### Cross-lays (over pump panel)



**RED**  
FRONT CROSSLAY  
250 feet  
Chief, 15/16" Smooth  
Tip or Vindicator

**BLUE**  
REAR CROSSLAY  
250 feet  
Chief, 15/16" Smooth  
Tip or Vindicator

**FLAT  
LOADS**

### Rear Hose Loads (E-One, Sutphen, Rosenbauer)




**YELLOW**  
2-1/2" PRE-CONNECT  
200 feet  
PLAYPIPE WITH  
1-1/4" TIP CARRIED

**YELLOW**  
2-1/2" DEAD LOAD  
  
400 feet minimum  
Gated Wye Attached

**YELLOW**  
REAR PRE-CONNECT  
250 feet  
Chief, 15/16" Smooth Tip or  
Vindicator  
Can Be extended w/  
2-1/2" to a wye or reducer

**YELLOW**  
5" FLAT LOAD  
  
1000 feet minimum  
Load Couplings in  
Middle of Bed

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### Rear Hose Load (Old E-One)



**YELLOW**  
 REAR PRE-CONNECT  
 250 feet  
 Chief, 15/16" Smooth  
 Tip or Vindicator  
 Can Be extended w/  
 2-1/2" to a wye or  
 reducer

**YELLOW**  
 5" FLAT LOAD  
 1000 feet minimum

**YELLOW**  
 2-1/2" DEAD LOAD  
 600 feet minimum  
 Gated Wye Attached  
 Playpipe w/ 1-1/4" Tip  
 kept in compartment


### Front Bumper Load – All Engines



**YELLOW**  
 5" SOFT SUCTION  
 10 to 50 feet

**YELLOW**  
 50 to 100 feet  
 1-3/4"  
 TFT Nozzle

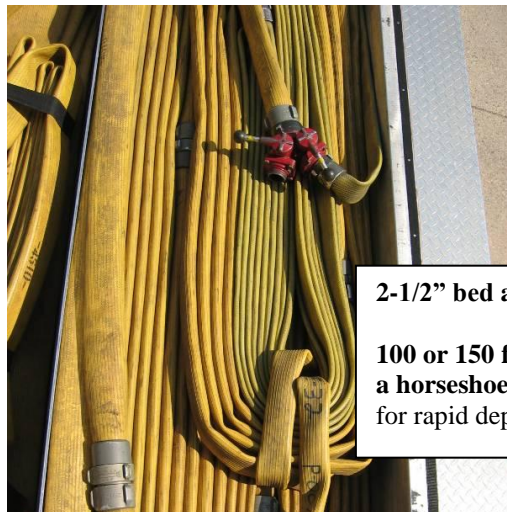


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## OPTIONAL HORSESHOE LOAD

Some Engine Companies have started carrying their 2-1/2" dead loaded bed with a gated wye or 2-1/2" Playpipe / shutoff and a small horseshoe load of 1-3/4" hose (approximately 100 or 150 feet) with a nozzle attached. This allows for multiple possibilities:

- Long hose lays are made easier with reduced friction loss. The 2<sup>nd</sup> due company can connect a 2<sup>nd</sup> hose line to the 2<sup>nd</sup> side of the wye
- Reverse Lay or Crossfire Operations are made easier since everything is pre-connected and ready to go.
- Wye and horseshoe load can be disconnected from the 2-1/2" line and be used to stretch hose lines via the outside of a building, standpipe, or to extend another hose line.
- The Wye and 1-3/4" can be rapidly disconnected and a playpipe can be added for defensive operations.

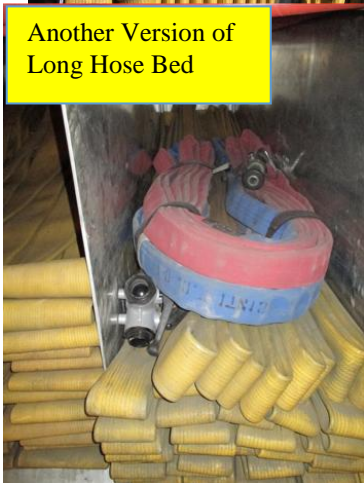



Easily deployed by (1) fire fighter over their shoulder

2-1/2" bed affixed with a gated wye  
100 or 150 feet of 1-3/4" is loaded in a horseshoe load on top of the 2-1/2" for rapid deployment




Another Version of Long Hose Bed



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## CLEVELAND LOAD or COIL LOAD



Some CFD Engine Companies carry a Coil or Cleveland Load on a hose bed. This load is different than our standard flat load and should be familiar with the personnel on that company if using for firefighting. This load must be charged in an area that will allow the charged hose to expand as well as the nozzle must first be flipped out to ensure it doesn't create a "tangled hose" condition.



Flip Nozzle Out  
Before Charging



Ensure there is enough  
area for hose pack to  
expand when charged