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## HOSE LOADS (1.2)

Revised by: FF Alex Chapin 10/2016

- NFPA 1961 – Standard on Fire Hose
- NFPA 1963 – Standard for Fire Hose Connections
- NFPA 1964 – Standard for Spray Nozzles
- NFPA 1965 – Standard for Fire Hose Appliances

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## TASK SKILL DESCRIPTION AND DETAIL

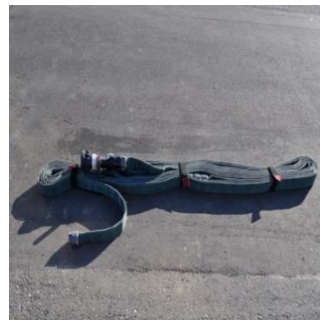
### General Information

- All LFRA engine companies will have 1000' of 5" LDH hose. This hose will be flat loaded with a strap at about 10' from the end coupling. The end coupling will have a hydrant adapter attached and will be stored inside the hydrant bag.
- All LFRA Engine companies will have a minimum of 300' of 2 1/2" flat loaded hose utilized for supply or attack
- All LFRA Engine companies will have the following hose selection.
  - 1- 200' 1 3/4" green attack line
  - 1-300' 2" yellow attack line
  - 1-150' 1 3/4" red bumper line
  - 1-200' 3" blue blitz fire attack line
  - 1 Alley line = 300' of 3" hose with a gated wye with 100' 1 3/4"

All LFRA 1 3/4" and 2" hose loads will be finished off with the Gasner Load.

### Gasner Load

- The Gasner is the load that will finish off the green line, yellow line and the Alley line hose loads.
  - Start the load with the male coupling. Then wrap the hose in a circle that extends about 6" past on both ends of the strap. Continue doing this until all 100' are completed, finally apply the strap to the load.





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### 200' 1 ¾ Green Line

#### Rear Deploying Hose Beds

- **Triple Flat**

- The triple flat is used on the bottom 100' section of the 200' 1 ¾" green line on rear deploying hose beds.
- **Step 1-** Start the load by finding a point two-thirds of the way from the hose bed, make a fold and double the hose on itself back toward the engine. Make another fold, the last part with the nozzle, to create the third layer.
- **Step 2-** These three layers are now treated as one for loading the hose. Leave about two-three feet of the male end out. This will become a loop once the load is completed.
- **Step 3-** Take the triple flat load and load it as a flat load.

Step 1



Step 2



Step 3 (completed load)





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### Completed Hose load for Rear deploying hose beds.

- Once the triple flat and the Gasner loads have been completed, connect the two in the hose bed. Leave a short loop of hose out of the bed for deploying the load.



### Cross – Lay Hose Beds

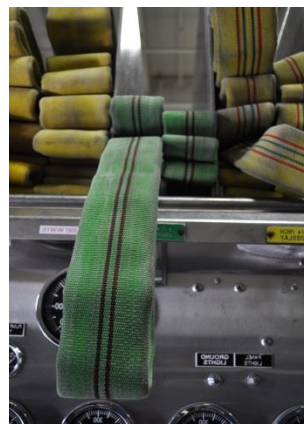
- **Flat Load**
  - The flat load is used on engine companies that have cross-lays.
  - **Step 1-** Flat load one 50' section of 1 ¾ hose
  - **Step 2-** Create a small loop on both sides of the apparatus and flat load an additional 50' section of 1 ¾ hose.
  - **Step 3-** The Gasner will finish off the load. There should be enough of the Gasner load out of the hose bed to allow the firefighter to grab the load when deploying.



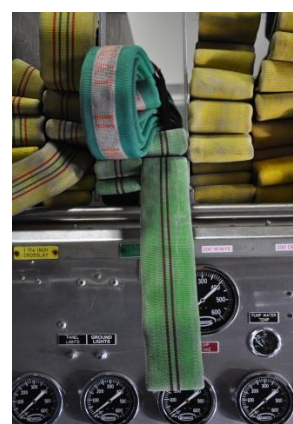
**Step 1**



**Step 2**



**Step 3  
(Completed Load)**



### 300' 2" Yellow Line

#### Rear Deploying hose beds

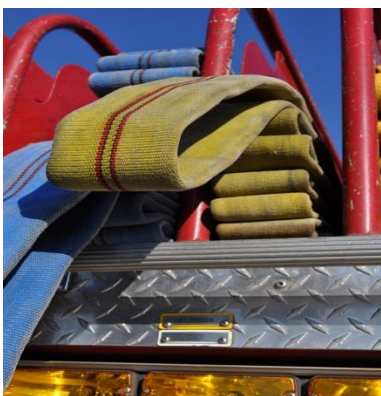
- The 300' 2" Yellow line on engine companies with rear deploying hose beds is a combination load. The load starts with 200' of 2" hose flat loaded and finishes off with a 100' Gasner.

**Step 1-** The Flat load is loaded in a single stack with a loop after the first 100'.

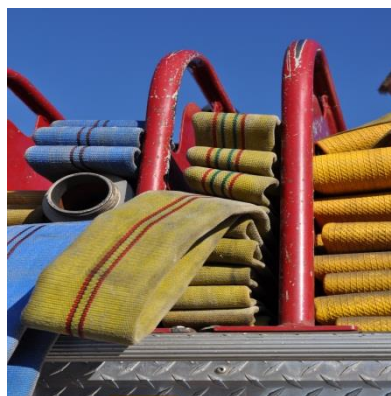
**Step 2-** The remaining 100' is flat loaded.

**Step 3-** The Gasner will finish off the last 100' of the load.

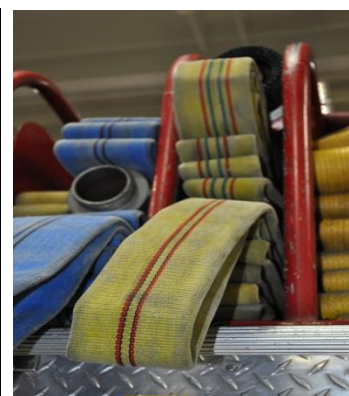
**Step 1**



**Step 2**



**Step 3  
(Completed Load)**





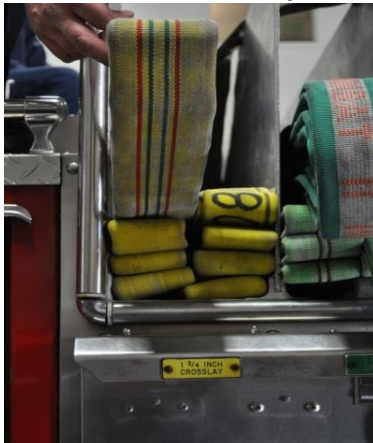


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### **300' 2" Yellow Line** **Cross- Lay Hose Beds**

- The 300' 2" Yellow line on engine companies with cross-lays is a combination load. The load is 200' of 2" hose flat loaded, finished off with a 100' Gasner.
  - **Step 1-** Flat load 100 feet of two inch hose. Leave a small loop on both sides of the apparatus.
  - **Step 2-** Flat load an additional 100' of 2" hose.
  - **Step 3-** The Gasner will finish off the remaining 100' of the load.

**Step-1**



**Step-2**



**Step-3**  
**(Completed Load)**





### Large Diameter Hose (LDH)

- Each Engine company will carry 1000' of 5" LDH hose (the exception to the fleet is engine 223, and it carries 800' feet of 4" LDH). LDH hose will be flat loaded with a strap at about 10' from the end coupling. The end coupling will have a hydrant adapter attached and will be stored inside the hydrant bag.

The Hydrant Bag will consist of the following equipment:

- 2 ½ gate valve (1)
- 2.5" to 5" Storz adapter
- 2 ½" spanner wrenches (2)
- Storz spanner wrenches (2)
- Rubber mallet (1)
- Hydrant wrench (1)
- 18" Pipe Wrench (1)





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### Front Bumper Line

- Each engine company will carry 150' of 1 3/4" rubber jacket hose on the front bumper. This load is a triple flat load in its entirety.
  - **Step 1:** Start the load at the first hose coupling (50 feet away from the bumper) and make a fold while doubling the hose back onto itself toward the engine.
  - **Step 2:** After the next 50 feet (back at the bumper), fold the hose back onto itself again to create the third layer. Finish the third layer away from the engine and end it with the nozzle.
  - **Step 3:** Take all three layers as one and load it on its side into the bumper compartment. The load may be stacked onto itself in multiple layers if necessary.

\*Because of the space constraint in the bumper compartment, take extra care to keep air out of the hose line while loading the hose. Starting off each section of hose in a donut roll prior to connecting them is a good way to ensure air is eliminated from the load.

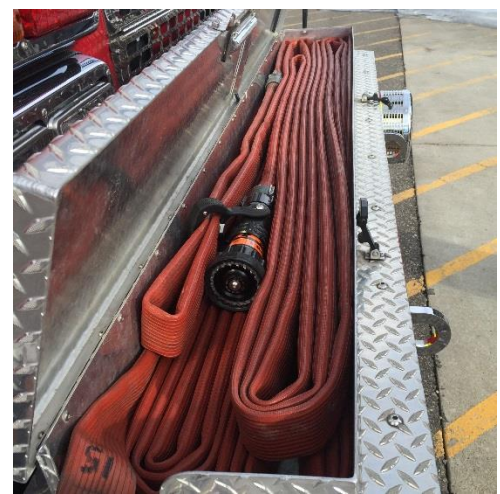
**Step 1**



**Step 2**



**Step 3  
(Completed Load)**







### Alley Line

- The Alley Line consists of 300' of 3" hose, a gated wye and 100' of 1 ¾" hose. The load is a combination of three loads: The Flat Load, The Minuteman Load, and the Gasner Load.

**Flat Load:** Flat load 100' of 3" hose and place a loop right after the first 100' is loaded. Flat load the next 100' of 3" hose. After loading 200', take the male coupling and place it out of the front of the hose bed.

**Minuteman:** Before continuing with the next section of hose, connect the wye and lay it on the ground. Flat load the remaining 100' of 3" hose leading with the female coupling. Finally connect the 3" hose you placed out of the front of the hose bed. This will make the Minuteman portion of the Alley Line. (See Figure 1)



(Figure 1)





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**Gasner:** Place the Gasner load on top of the Minuteman load and connect it to the wye. Take the wye and fold it on top of the entire load (see Figure 2).



(Figure 2)



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### **Blitz Line**

- The blitz line consists of 200 feet of 3" hose and is tipped with a blitz nozzle that can be utilized as an unmanned master stream. The blitz line is loaded as a flat load in its entirety.

#### **Flat Load:**

**Step 1:** Pre-connect the 3" line (if available) and flat load 100' of hose.

**Step 2:** Place a loop in the load after the first 100' is loaded and continue to load the remaining 100'.

**Step 3:** Leave a large enough tail at the end of the load to attach the blitz nozzle and secure it to the bracket.

**Step 1**



**Step 2**



**Step 3 (completed load)**





### 2.5" Dead Load

- The 2.5" dead load on each engine consists of 400 feet of 2.5" hose that is loaded into two side by side stacks (200 feet each). The stack on the left is to be tipped with a nozzle and the stack on the right is to remain untipped.

**Flat Load:** Flat load 200 feet of 2.5" hose without loops. Directly beside the first stack replicate it by flat loading an additional 200 feet of 2.5" hose without loops. Place a nozzle on the tip of the left stack. (On apparatus where space is not provided for two stacks, a single stack will be made with the nozzle on top).

Step 1



Step 2 (Completed Load)





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## REFERENCES

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- The National Fire Protection Agency, Standards: 1961, 1963, 1964, 1965
- IFSTA Essentials of Fire Fighting and Fire Department Operations, 5th Edition
- LFRA Training Manual "Hose Loads" Version 1.1





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