

	City of Fitchburg Fire Department			(Insert Picture)	
	Tab 3 – Standard Operating Guidelines Section 3200 – Engine Company Operations				
	Reverse Hose Lay			Policy Number	3205
			Version	2.0	
Version:	Prepared By:	Reviewed By:	Approved By:	Approval Date	Effective Date
1.0	Larry Huber	NA	Larry Huber	3-10-1987	3-10-1987
1.1 Reformatted	Jason Ladwig	NA	NA		2003
2.0	Officer Review	NA	Randall Pickering	June, 2005	June, 2005

Subject: Reverse Hose Lay

Scope: All department personnel

Objective: To provide a department guideline for reverse hose lay evolutions that can be applied to various fireground situations.

Goal: To provide evolutions that will achieve the following:

- Permit engine companies to use the pumping capacity of their unit by placing the engine at the "water source".
- Provide evolutions that are adaptable to the specific needs of emergencies in both rural and hydrant locations.

Definitions:

Reverse Hose Lay – the laying of a supply line from the scene of the emergency back to a water source.

Short Strip – Removing essential equipment at the scene of the emergency before making a Reverse hose lay. A "Short Strip" will include the following:

SHORT STRIP EQUIPMENT & ASSIGNMENTS

- | | | |
|----|--|---------------|
| 1. | Personal assigned equipment (refer to placard) | Each Member |
| 2. | Attack line(s) as determined by OFR | Firefighter 1 |
| 3. | Ground ladder, roof ladder and long pike pole | Firefighter 2 |

XXXXXXXXXX

Evolution Descriptions:

A. Attack Lines from Reverse Layout:

1. Engine Company will position as directed by Command.
2. Members will complete a "Short Strip" (see definition above) of the engine – removing any additional equipment as directed by the OFR.
3. FF2 will remove the 4" supply line with the manifold and place as directed by the OFR (adequate hose must be removed so that the manifold can be placed in the desired location.).
4. FF2 secures the manifold and hose, and motions to the DO that it is safe for the engine to begin the reverse lay.
5. The engine will reverse lay to the water source at a speed of 5-10 mph. Avoid blocking the entire roadway with the hoseline. When ready, the DO will supply water to the manifold, slowly increasing the pump discharge pressure to 150 psi.
6. The OFR, FF1 and FF2 will connect and extend the hoseline to the position directed by Command.
7. The DO will adjust engine pressure to provide the flow and nozzle pressure needed. The manifold pressure gauge may be used to monitor the need of the hoselines.

B. Master Stream from Reverse Layout:

1. Engine company will position as appropriate to complete the assignment.
2. The OFR removes the Master Stream device and positions it in the desired location. FF1 disconnects the 4" hose from the manifold and removes adequate hose to permit proper placement of the master stream. If more than 300' from the attack engine, FF2 disconnects the 4" hose from the hydra-assist valve and removes adequate hose to reach the master stream.

NOTE: Maximum distances from attack engine:

Single 4" hoseline: 300'

Two 4" hoseline: 1500'

3. FF1 secures the first 4" hoseline and FF2 secures the second 4" hoseline (if required). After confirming that both hoselines are secure, FF2 motions to the DO that it is safe for the engine to begin the reverse lay.
4. The Engine will reverse lay to the water source at a speed of 5-10 mph. Avoid blocking the entire roadway with the hoseline(s).
5. The OFR, FF1 and FF2 will position the master stream device and prepare to operate the stream. When ready, the OFR will call for water.
6. When the OFR calls for water, the DO will slowly charge the hoseline(s). The engine pressure will be adjusted to that level needed for adequate flow and nozzle pressure.

NOTE: This evolution also applies to situations when an engine company is assigned to supply the master stream device mounted on Brush 1.

C. Support of Sprinkler System and/or Standpipe:

1. Engine Company locates fire department connection (FDC).
2. FF1 disconnects the 4" hoseline from manifold and removes adequate hose to easily reach the FDC. FF2 removes the hydrant bag from the engine and places it on the ground near the FDC. If directed by the OFR, a second 4" hoseline is disconnected from the hydra-assist valve by either FF1 or FF2 and connected to the FDC.

SECURE THE HOSE

3. After confirming with the OFR, FF1 secures the hoseline(s) and motions to the DO that it is safe for the engine to begin the reverse lay.
4. The engine will reverse lay to the nearest available water source at a speed of 5-10 mph. Avoid blocking the entire roadway with hoseline(s).
5. FF1 and FF2 connect the hoseline(s) to the FDC.
6. The DO will make the hydrant (intake) and supply (discharge) connections. When the OFR calls for water, the DO will slowly allow water to fill the 4" hoseline(s) and then increase the engine discharge pressure to 150 psi.
7. Command shall be notified when the FDC is receiving water from the engine.
8. When supplying a sprinkler system, the OFR will verify that the sprinkler control valves are in the open position if this can be accomplished safely. When the evolution is completed, the OFR will notify Command that the crew is available for reassignment.