

SAN RAFAEL FIRE DEPARTMENT TRAINING MANUAL	CHAPTER I	GENERAL INFORMATION	
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Adapter: A hose fitting that changes thread type. May also change thread size. Example: 1 inch pipe thread female x 1 inch National Hose male.

Adjustable Gallonage Nozzle: A nozzle with a manually controlled system of setting GPM flow. Example: 30-60-95-125 GPM settings.

Anchor (Anchor Point): To secure the perimeter of a wildland fire at the point of attack to prevent being “flanked” by the fire. A roadway often provides a good “anchor point”.

Attack Line: A hose line with nozzle attached used for actual fire fighting.

Automatic Nozzle: A nozzle that reacts to supplied pressure and increases or decreases flow automatically while maintaining a good stream. This is done with a spring-like mechanism within the nozzle. Example: Akron Assault Nozzle

Booster Line: 3/4 or 1 inch round rubber hose carried on an apparatus mounted reel pre-connected to the pump.

Bundle: Hose folded and strapped together for carrying.

Charge: To open the valve supplying a hose line.

Combination Lay: Hose lay in which two or more hoselines are laid in either direction- water source to fire or fire to water source.

Cross Lays: Hose loads on engines with hose beds that are constructed from one side of the apparatus to the other side.

Deck Gun: A master stream device mounted on an apparatus and connected by plumbing to the pump. In some cases deck guns can be removed from the apparatus and used on the ground.

Deluge Gun: A master stream device designed to be used on the ground supplied by hose lines.

Discharge: An outlet hose connection on the pressure side of a pump.

Donut Roll: A length of hose rolled with the center of the length at the core of the roll and both couplings at the end or outside of the roll.

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Double Donut Roll: A donut roll with each side of the roll from the core rolled side by side.

Double Female: A fitting with two female connections. In most cases both connections are the same size (Example: 2 1/2 inch double female). Some have two female connections of different sizes (Example: 2 1/2 inch x 3 1/2 inch double female).

Double Male: A fitting with two male connections.

Drop Bag: A small bag carrying rope. Designed to haul equipment aloft, used for emergency search and rescue. Often carried on the breathing apparatus harness.

Dutchman: Extra fold placed along the length of flat loaded hose so that the coupling will not hang up when pulled.

End Roll: A roll of hose with one coupling at the core and the other coupling on the outside of the roll.

Female Coupling: Threaded swivel device on a hose or appliance with internal threads designed to receive a male coupling having external threads of the same thread and diameter.

Fitting Bag: A bag designed to store hose fittings for a particular application. Two are in current use.

Hydrant Fitting Bag: Carried attached to the four-way valve.

Wildland Fitting Bag: Attached to the red hose pack and supplied with fittings for wildland hose lays.

Fixed Gallonage Nozzle: A fog nozzle with no means of altering flow. Example- 125 GPM Nozzle.

Flat Load: Arrangement of fire hose in a hose bed in which the hose lies flat with successive layers one upon the other.

Fog Nozzle: A nozzle that permits adjusting the stream pattern through various spray angles from close to 90 degrees down to straight stream.

"Fold 50": A method of rapidly folding 2 1/2 inch hose to permit easy carrying. Each engine carries one "folded 50" strapped together as a bundle.

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Forestry Clamp: A small hose clamp designed to clamp 1 inch and 1 1/2 inch hose lines during wildland hose lays. Some forestry clamps will clamp 1 3/4 inch hose (with difficulty).

Forestry Roll: A donut roll or double donut roll of 1 inch or 1 1/2 inch hose held together with a rubber band.

Forward Hose Lay: A hose lay starting at the hydrant and ending at the fire.

Four-Way Valve: A valve connected to the hydrant that allows immediate charging of the supply line and later permits pumping of that supply line.

Friction Loss: The loss of pressure that takes place as water flows through hose.

GPM: Gallons Per Minute. A rate of fluid flow.

Hose Bed: A compartment on fire apparatus designed to carry hose.

Hose Lay: An organized sequence of operations resulting in a complete arrangement of hose, fittings and nozzles from the water source to the fire.

Hose Pack: A back pack designed to carry rolled hose.

Hose Strap: A strap designed to assist in handling and securing hose lines.

Hydrants:

Steamer: A hydrant with one 4 1/2 inch outlet and one or two 2 1/2 inch outlets.

Double: A hydrant with two 2 1/2 inch outlets.

Single: A hydrant with one 2 1/2 inch outlet.

Wharf: A hydrant fabricated of 2 inch pipe with an angle valve and one 2 1/2 inch outlet.

Increaser: A hose fitting with a small female connection and larger male connection (Example: 1 1/2 inch x 2 1/2 inch increaser).

Inline Hose Lay: A forward hose lay where the supply line from the hydrant is connected to a pump at the fire.

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Lateral: A hose line connected to a "tee" valve or gated wye on a wildland hose lay. Laterals are supplied from the main hose lay. "Laterals" are usually one inch hose.

LDH: Large Diameter Hose. Supply hose 3 ½ - 6" in diameter.

"Make the Hydrant": The operations involved in connecting the supply line to the hydrant during a forward hose lay.

Metro Hose lay: A forward hose lay where the supply line from the hydrant is connected to the Tri Wye at the fire. Attack lines are supplied from the Tri Wye.

Metro Wye: See "Tri Wye"

Minuteman Load: A method of loading pre-connected hoselines where the hose pays off the shoulder during deployment.

Pigtail: The short length of hose connecting cross lay pre-connect hose discharges to the pre-connect hose load.

Pre-Connect: A hose load carried on an engine with the female end connected to a pump discharge and a nozzle connected to the male end.

PSI: Pounds per Square Inch. A measure of fluid pressure.

Quick Step Pickup: A method of quickly shoulder loading 1 inch, 1 ½ inch or 1 ¾ inch hose from a flaked out situation.

Reverse Hose Lay: A hose lay from the fire scene to the hydrant.

Siamese: A hose fitting with two or more female connections and one male connection. Two types are common.

Clappered: Hinged valve which only allows water to flow from the female side to the male side.

Straight: Open throughout with no valves.

Storz Coupling: Non-threaded coupling commonly found on large diameter hose.

Strap Wrench: Wrench used to remove plastic hydrant caps.

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Timberline Hose Clamp: A small scissor-like hose clamp designed to clamp 1 inch and 1 1/2 inch hose lines during wildland hose lays.

Tri Wye: The 3 1/2 inch x three 2 1/2 inch gated wye carried on San Rafael engines.

Working Line: 2 1/2 inch hose loaded in a hose bed with a nozzle for fire attack.

Wye: A hose fitting with one female connection and two or more male connections. Two types are common.

Gated: Male outlets are controlled with valves.

Straight: Open throughout with no valves.

Male connections may be the same size or smaller than female connection.