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## WATER SUPPLY SOG

**Tactical Standard Operating Guidelines (SOG)**

### **SCOPE**

This guideline shall apply to all members of the Stoney Point Fire Department (SPFD) and shall be adhered to by all members.

### **PURPOSE**

The purpose of this SOG is establish a guideline by which water supply operations are to be conducted whether from a static or pressurized source, inspections, and entering data into the computer.

### **DEFINITIONS**

**INSPECTION-** Process by which something is checked to ensure that it is operable and meets all requirements.

**PRESSURIZED WATER-** Source of water that has pressure associated with it. Example of a pressurized source is a fire hydrant.

**SHALL -** Indicates a mandatory requirement.

**STANDARD OPERATING GUIDELINES (SOG) -** Documents that help establish how an organization will operate and how its members are expected to carry out specific duties outlined in general terms.

**STATIC WATER-** Source of water that has no pressure associated with it. Examples are ponds and lakes.

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**GUIDELINE**

**Pressurized Water Sources**

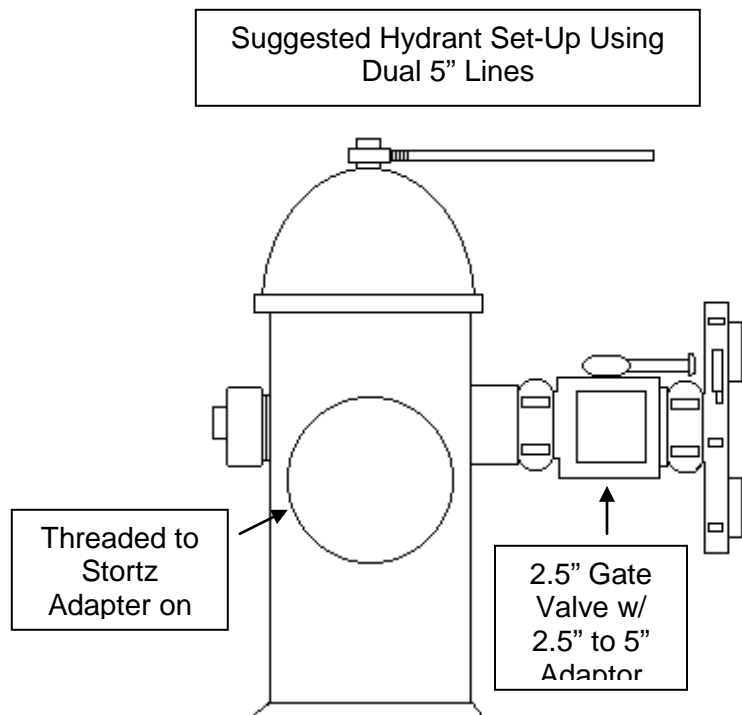
Hydrants shall be utilized by SPFD at all operations as a water source whenever their use is strategically effective. They may also be augmented with a tanker shuttle.

When using pressurized sources, five inch supply line shall be utilized to maximize flow potential from the water system.

When setting up the hydrant for use, the steamer connection on the front of the hydrant shall be used as the primary connection.

So as to maximize the hydrants potential, a 2.5" quarter turn valve with a 2.5" to 5" adapter shall be used so additional LDH connections can be used.

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Before connecting multiple lines the pump operator shall ensure that there is sufficient residual pressure to support the additional lines being added.

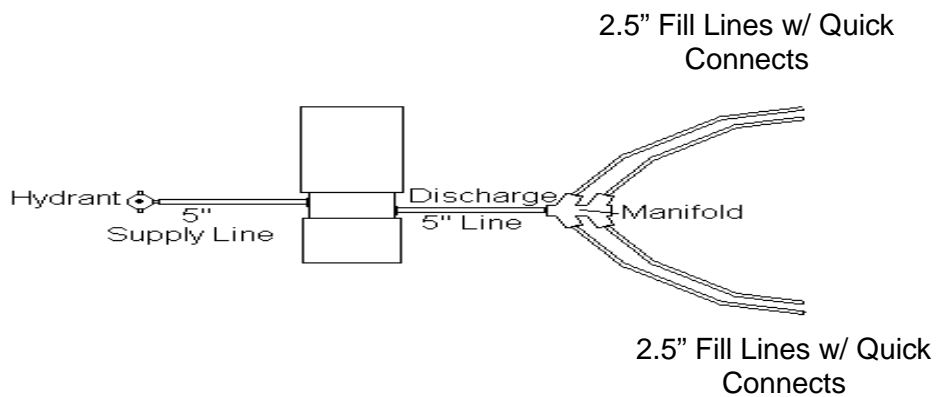
The pump operator shall maintain a minimum of 20 psi on their intake gauge so as to not cavitate the pump.

Hydrants may be used two ways to supply water:

1. Connected directly to the attack engine(s)
2. Connected to the supply engine which then supplies a manifold for filling tankers in a water shuttle operation.

The diagrams contained within this SOG shall be referenced for suggested layout configurations.

Suggested Set Up for Hydrant as a Tanker Fill Source



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**Static Sources**

Static sources shall be utilized by SPFD at all operations as a water source whenever their use is strategically effective and a pressurized source is not available.

When using static sources, the water point engine shall use a float dock strainer to maximize flow.

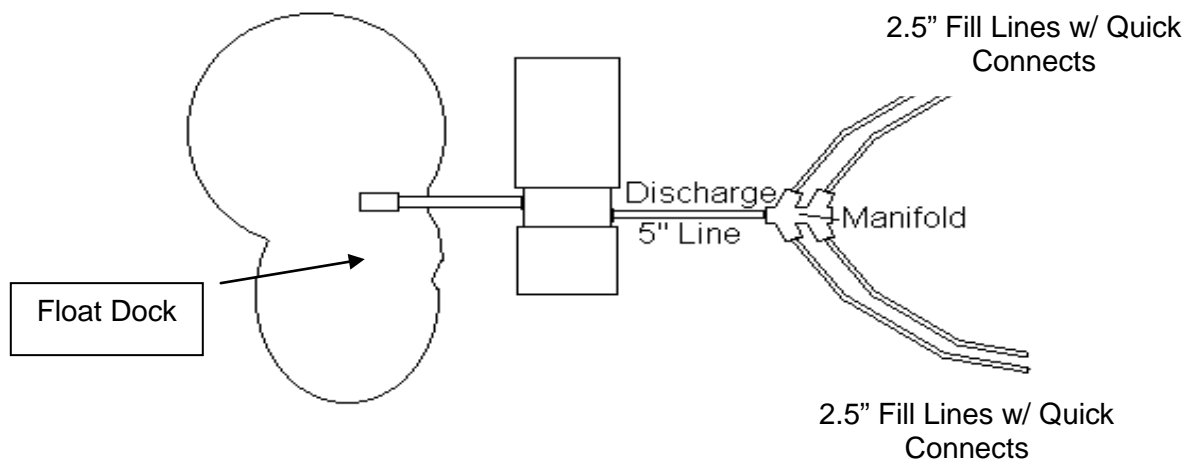
To remove debris from the strainer the water point engine should use a hand line and direct a straight stream around the strainer to remove debris from the strainer. This can be accomplished without shutting down filling operations.

In the event of ice formation on the surface of a static source, a pike pole or other type of tool should be used to break the ice from the edge of the water source so the strainer can be placed in the water.

The diagrams contained within this SOG shall be referenced for suggested layout configurations for operating a fill site to fill tankers for rural water supply.

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Suggested Static Water Source as a Fill Site Set Up





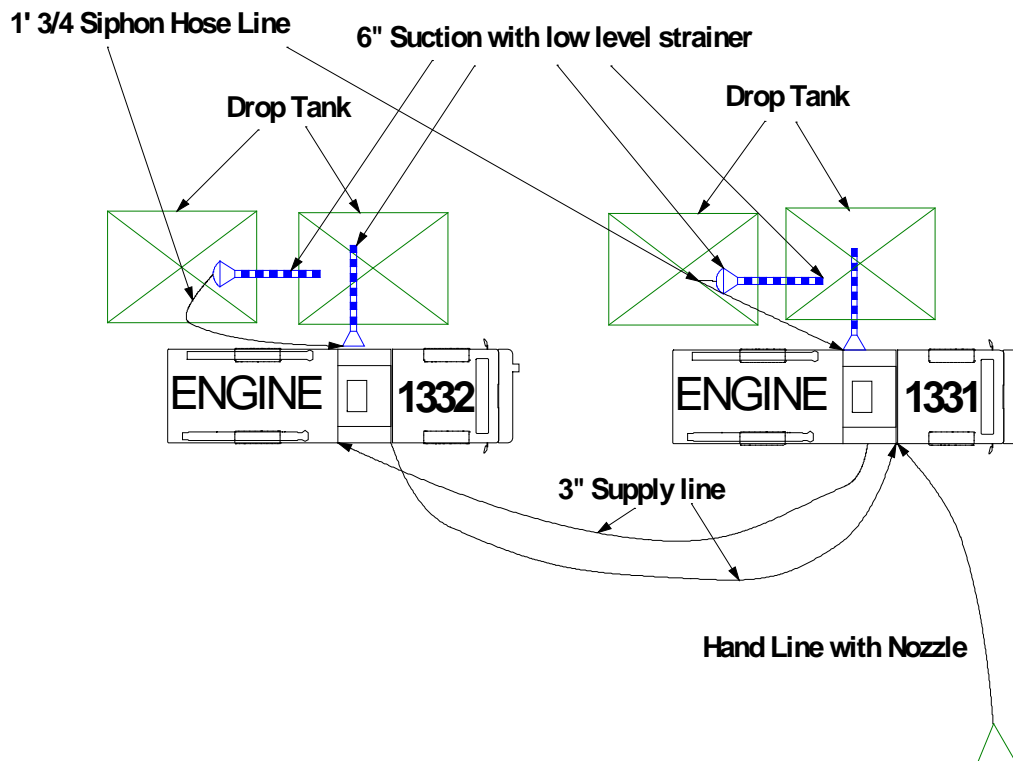
### WATER SHUTTLE OPERATIONS USING DROP TANKS

To supplement existing water systems and areas where hydrants are not available Portable Water Tanks carried on department units shall be utilized.

The four (4) drop tank method detailed below shall be utilized to supplement needed fire flow to pre-planned structures in the Stoney Point Fire District.

The operation will utilize two engines interconnected by supply lines to back each unit up in case of pump failure. The second engine company serves as the secondary water source on scene.

#### WATER SHUTTLE OPERATION 4 DROP TANKS



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## INSPECTIONS for PRESSURIZED and STATIC WATER SOURCES

Pressurized sources shall be tested once a year (annually).

This inspection shall include:

- Static pressure test
- Weeding
- Spraying for weeds
- Hydrant operability (stem, painting, greased, chains removed, number of turns to open)

Any deficiencies shall be noted on the inspection form and forwarded to the data entry section.

Any repairs that are needed to the hydrant shall be forwarded to the Public Works Commission of Fayetteville, Robeson County Water Department or Aqua Water Company.

Any utilized Static sources shall be tested once a year (annually),

This inspection shall include:

- Weeding
- Spraying for weeds
- Presence of excess algae
- Water level
- Water point sign visible
- Dry Hydrant operable (if applicable)
- All weather road acceptable

All information from these inspections shall be entered into Fire Programs by the designated person(s).

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