RURAL WATER SUPPLY

KEY CONSIDERATIONS:

- Drafting is an *Engineer* function. Setting up a draft site or running a Rural Water Supply is a *company* function.
- Consult Tender chart and Cheat Sheet on page 3.
- Communication between Fill-Site Pumper, Supply Pumper, Attack Pumper, and Water Supply Officer is critical – get your own tactical channel ASAP.
- **REMEMBER: A long relay pumping operation from the last hydrant might out-perform a water shuttle and in many cases will require less effort in the long-run.**

CONSIDERTIONS:

- **Nurse operations offer very limited water supply (both in time and volume). *When in doubt…set up the shuttle early.***
- When utilizing a Fill-Site pumper to fill tenders, consider dropping the officer at the fire scene to be the Water Supply Officer and sending the balance of the crew to the **fill site** to set-up and fill tenders.
- Water is at a premium in rural operations. Keep it off the ground.
- Consider how the ground will perform when you flood it, avoid getting engines stuck.

PROTOCOL:

FIRES REQUIRING FEWER GPM's Nursing Operation
1. Supply Pumper pumps to Attack engine from its tank.
2. Attack Pumper should receive water directly into the tank when possible.
3. Engineers communicate regarding needed pressures.
4. Arriving tenders feed the supply engine.

FIRES REQUIRING GREATER GPM's Tender Shuttle Operations
1. *First Due engine* goes directly to the fire building, does not lay in. Mark the driveway(s) as necessary. **This is the Attack Pumper.** • Remember to note total distance in from the street if possible. Account for **1/10th of a mile as 600 feet.** • Communicate with second due if greater than a hose bed worth of hose is needed so they can adapt.
2. *Second Due engine* **STAGES UNTIL** first due engine is sure they are in the right driveway! Then proceeds to the scene laying a supply line from the street. • Connect the supply line (4" preferred) to the Attack Pumper. • Consider also nursing off your tank with a separate line.
3. *Third Due engine* becomes the **Supply Pumper** on the road and sets up the Tender Dump Site.

WATER SUPPLY OFFICER
Tender Shuttle Operations

1. **IC assigns Water Supply Officer**. Good candidates are:
   - **Officer** of the Fill-Site Pumper (leave them at the fire scene if possible)
   - Supply Pumper **officer or engineer**.
   - Available staff officer (great choice to avoid tying up IDLH capable FF's.)
2. **Water Supply Officer sizes up the needs**:
   - Obtain the needed GPM from the IC.
   - Determine how many tenders you will need.
   - Determine best fill site for incoming tenders.
   - Determine the optimal travel route for tenders.
3. **Order additional tenders as needed through the IC (the IC may assign water supply to handle (and track) his own resource ordering through ECSO)**.
4. **Obtain Tactical Channel for all tenders and Water Supply Pumpers**. Attack, Supply and Fill engineers will need a second radio to monitor both the Water Supply channel and the Operational channel of the fire attack.
5. Coordinate Tender Shuttle
   - Stagger multiple tenders so they are not all waiting to fill or dump at the same time.
   - Consider multiple fill sites if more than 3 tenders.

DETERMINING HOW MANY TENDERS YOU WILL NEED

1. Determine how many GPM are required on the fire ground. Get this number from the IC.
2. Assign a GPM value to each tender responding
   - **Tank size of the tender (minus 10%) divided by the total turn-around-time.**
   - EXAMPLE: 3500 gallon tender with a 15 minute TAT is a **200 GPM tender**.
     - 3150 / 15 = 210 GPM
3. Add the GPM capability from above for all your responding tenders. This is your **MAXIMUM CONTINUOUS FLOW.**
4. Order what you need to stay above the needed GPM. You will be short if:
   - GPM demand increases.
   - Tenders start to stack at fill or dump sites.

RURAL WATER SUPPLY

TENDER STATS				
Number	**Tank Size (gallons)**	**Pota-Tank Size (gallons)**	**Side Dump?**	**MISCELLANEOUS**
6441	2800	2500	NO	1 floating pump
7441	2000	2500	YES	Rated fire pump
7442	2000	2500	YES	
7741	2000	2500	YES	Rated fire pump
7744	3500	3000	NO	
7745	2000	2500	YES	Rated fire pump
7746	2000	2500	YES	Rated fire pump
7747	3500	3000	NO	
8146	2000	2500	YES	Rated fire pump / float pump
8341	2000	2000	YES	Rated fire pump / float pump
8343	2000	2500	YES	Rated fire pump / float pump
8541	3000	1500	NO	Rated fire pump
8542	3000	1500	NO	Rated fire pump
8543	3000	1500	NO	Rated fire pump
8544	2000	1500	NO	Rated fire pump
8545	2000	1500	NO	Rated fire pump

** Josephine County departments have +/- 10 water tenders available**

TENDER GPM CHEATSHEET (rounded) **MAXIMUM CONTINUOS FLOW** PROVIDED BY **EACH** TENDER IN THE SYSTEM			
Tender Tank Size (GPM)	15 minute TAT	20 minute TAT	30 minute TAT
2000	120 GPM	90 GPM	60 GPM
3000	180 GPM	135 GPM	90 GPM
3500	210 GPM	160 GPM	100 GPM