Water Shuttle Drill

Recommended Equipment & Staffing Checklist

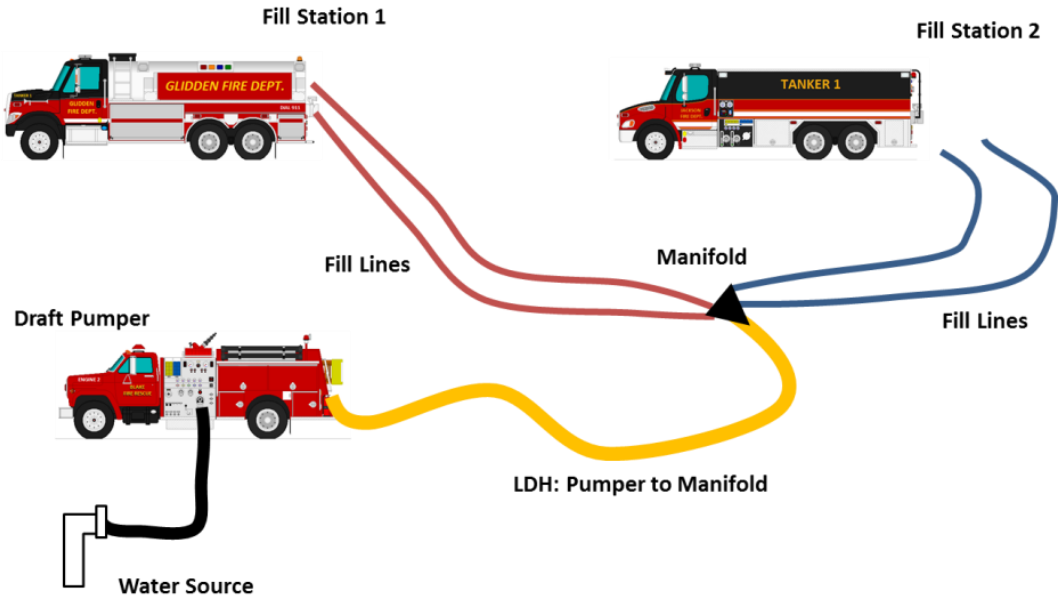
OHIO FIRE CHIEFS' ASSOCIATION
WATER SUPPLY TECHNICAL ADVISORY COMMITTEE

FILL SITE

Equipment	Dry Hydrant	Direct Draft	Pressurized Hydrant, <1000 gpm	Pressurized Hydrant, 1000+ gpm
Draft Pumper or Portable Pump(s)	1	1	1	0
Manifold (Rural Hitch)	1	1	1	1
Box or Barrel Strainer	0	1	0	0
Low-Level Strainer	0	0	1	0
Portable Tank, 2000 gal min.	0	0	1	0
Hard Suction Hose	Sufficient length to connect draft pumper to water supply source			0
LDH (4"+), pumper to manifold	Sufficient length to connect draft pumper to manifold			Sufficient length to connect hydrant to manifold
Hose (3-in and/or LDH), manifold to water tenders	Sufficient length to connect manifold to water tenders; up to 4 x 3-in lines and up to 3 x LDH lines			
Adapters	All adapters needed to make the following connections: • Water supply to draft pumper • Draft pumper to manifold • Manifold to all water tenders			

Staffing	Minimum	Recommended
Fill Site Manager	1	1
Pump Operator (not needed for strong hydrant)	1	1
Fill Site Crew	2	2-4
Traffic Director	0	1
Safety Officer	0	1
TOTAL STAFFING	**4**	**6-8**

Generalized Fill Site Diagram



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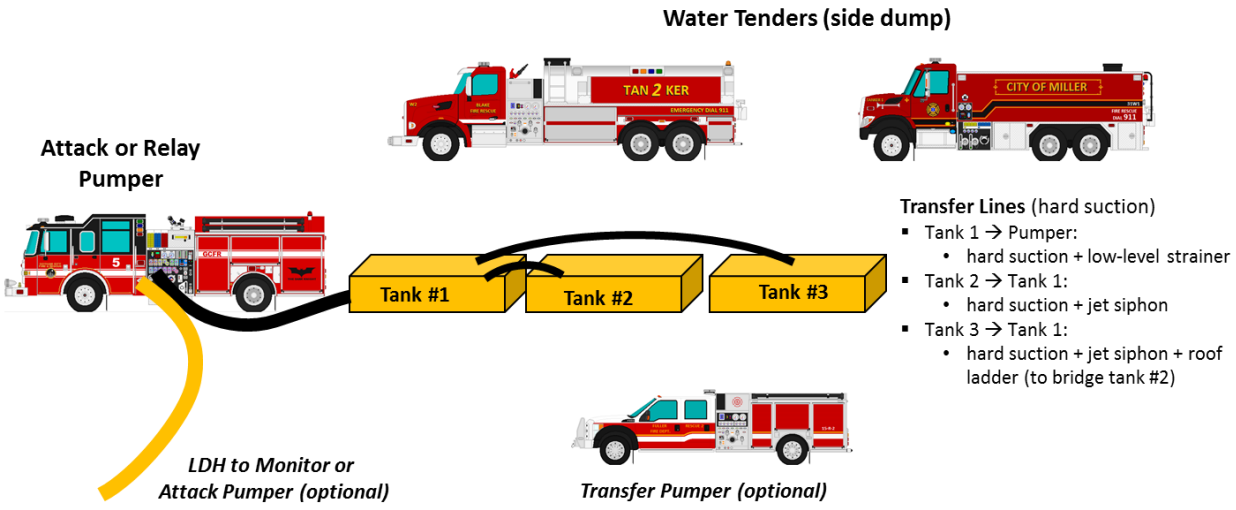
DUMP SITE

Equipment	1 x Dump Tank	2 x Dump Tanks	3 x Dump Tanks
Attack Pumper	1	1	1
Portable Tank, 2000-gallon minimum capacity	1	2	3
Low-Level Strainer	1	1	1
Jet Siphon	0	1	2
Roof Ladder	0	0	1
Hard Suction Hose	Sufficient length to allow draft from tank #1 and transfer water from tanks #2 and #3 to tank #1		
Relay Pumper + LDH	1x needed if attack pumper will not draft directly from portable tanks		
Transfer Pumper	1 x needed if attack/relay pumper cannot simultaneously supply jet siphon and fire flows		
Pitot Gauge	Optional to determine actual flow rates from water shuttle		

Staffing	Minimum	Recommended
Dump Site Manager	1	1
Pump Operator (attack, relay and transfer pumpers)	1-3	1-3
Dump Site Crew	2	2-4
Traffic Director	0	1
Safety Officer	0	1
TOTAL STAFFING	**4-6**	**6-10**

Generalized Dump Site Diagram



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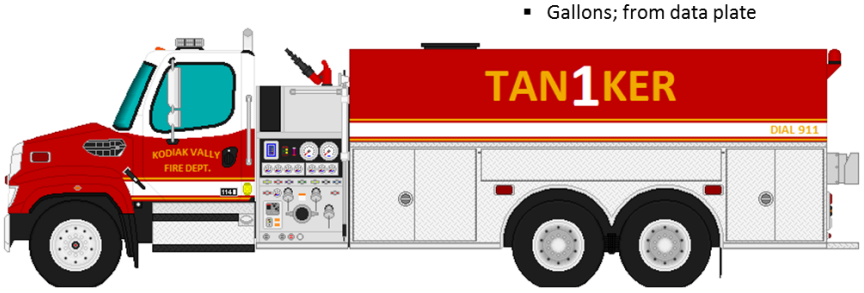
APPARATUS CHARACTERISTICS

Water Tenders (Tankers) *Gather the following information for each water tender / tanker that will participate in the drill*	
Fire Department	
Unit number or other identifier	
Nominal tank capacity (gallons); from data plate	
Design (vacuum or conventional/gravity dump)	
Fill connection(s); thread, size and how many	
Maximum fill rate (gpm); from data plate or tank warranty	
Dump configuration (side, rear or both)	
Dump rate (gpm) if known	



Tank Capacity
- Gallons; from data plate

Fill Factors
- Connections: Thread, Size, Number
- Fill Rate (gpm): Max allowable

Dump Factors
- Configuration: Side, Rear or Both
- Dump Rate (gpm) (if known)

Design
- Vacuum or Conventional (gravity dump)

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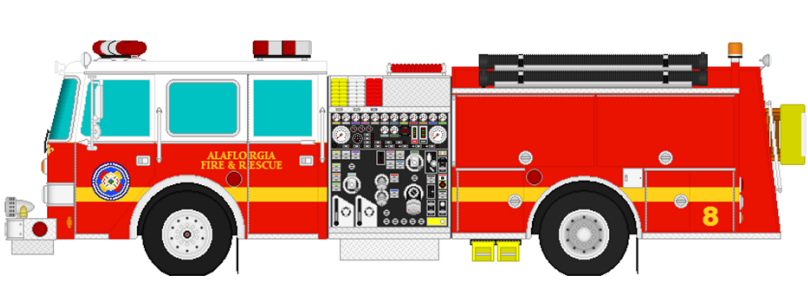
APPARATUS CHARACTERISTICS

Engines (Pumpers) *Gather the following information for each engine / pumper that will participate in the drill*	
Fire Department	
Unit number or other identifier	
Intake connections(s); thread and size	
Discharge connection(s); thread and size	
Maximum discharge rate at draft (gpm)	



Intake Factors
- Intake Connections: Thread & Size

Discharge Factors
- Discharge Connections: Thread & Size
- Maximum discharge rate at draft (gpm)

KEY POSITIONS

Staffing

Initial roster of personnel to fill key positions

Position	***Organization***	***Individual***
Water Supply Officer		
Safety Officer		
Fill Site Manager		
Fill Site Pump Operator		
Fill Site Traffic Director		
Dump Site Manager		
Dump Site Pump Operator		
Dump Site Traffic Director		