

Hartford Fire Department  
Rural Water Supply Exercise  
September 2010

**Summary:** On Sunday, September 12, 2010 the Department conducted a rural water supply exercise to evaluate its ability to supply water via tanker shuttle to an area of the community in which municipal hydrants do not exist. The exercise was conducted using the parameters set by ISO for dispatch and travel times. The Department used apparatus, including mutual aid units from the neighboring agencies that are on the HFD Zone 4 run card for the 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> alarm. Two staging areas were identified; one north and one south of the simulated fire scene and units were deployed on a time delay established by ISO requirements. The travel distance from the fire scene to the fill site was six miles round trip. The Department was able to easily maintain the ISO requirement of 250 GPM for two hours.

**North Staging:** The north staging area was located at 5000 Route 14 in West Hartford at the West Hartford Country Store. Apparatus from Sharon, Pomfret, South Royalton and Woodstock were staged at this location and dispatched according to a pre-determined delay based upon travel distance, dispatch lag and arrival of the first HFD unit. The north staging was located 3/10<sup>ths</sup> of a mile from the simulated fire scene.



Unit	Distance fire station to staging	Dispatch Lag	Time released from staging (start at 00:00)	Number of personnel
Sharon Tanker	6.7 miles	0	12:00	2
Pomfret Tanker	4.5 miles	6 minutes	26:06	1
So Royalton	11.28 miles	6 minutes	37:32	2
Woodstock	13.8 miles	6 minutes	41:49	2

**South Staging:** The south staging area located at 1705 Route 14, Ross Transportation, which was also adjacent to the fill site. Apparatus from Hartford, Norwich, Lebanon, Hartland and Plainfield were staged at this location and dispatched according to a pre-determined delay based upon travel distance, dispatch lag and arrival of the first HFD unit. The south staging was located 3 miles from the simulated fire scene.



Unit	Distance fire station to staging	Dispatch Lag	Time released from staging (start at 00:00)	Number of personnel
Hartford E-1	3.1 miles	0	5:57	4
Hartford E-2	9.4 miles	0	16:34	3
Hartford E-3	3.1 miles	0	5:57	2
Hartford T-1	3.1 miles	0	5:57	2
Norwich Tanker	7.3 miles	0	13:06	2

Hartford Fire Department  
Rural Water Supply Exercise  
September 2010

Lebanon E-4	7.6 miles	3 minutes	28:16	2
Hartland Tanker	7.1 miles	6 minutes	30:25	2
Plainfield Tanker	13.9 miles	6 minutes	41:49	2

**Fire Scene:** The simulated fire scene/dump site located at 4700 Route 14 in West Hartford was 3 miles north of one staging area and 3/10<sup>th</sup>s of a mile south of the other. Hartford Engine 1 was the apparatus assigned to this site. Engine 1 arrived at 11:42 minutes after the incident began and the second/third alarm was transmitted. The crew deployed 100' of 2 ½ hose with an attached ground monitor and began water flow from the booster tank 3 ½ minutes after arrival at 260 gallons per minute. Utilizing the folding tanks from Hartford Engine 3 and Hartford Tanker the crew established two dump points, one drafting through the front intake and one through the side intake of Engine 1. Both Hartford Engine 3 and Tanker then began water shuttle operations. At 35 minutes into the event (20 minutes after water flow began) the flow rate was increased to 350 GPM and five minutes later the flow was increased to 400 GPM. At 55 minutes into the incident (40 minutes after water flow began) the flow was increased to approximately 800 GPM using the truck mounted master stream device and the ground monitor. The decision was made to scale back operations and release mutual aid companies after 90 minutes of water flow. At this point the flow rate was reduced to approximately 400 GPM which was maintained throughout the remainder of the two hour time period requested by ISO. The Engine 1 crew utilized numerous folding tanks for water storage and two jet siphons to move the water between storage tanks. At no time during this operation did the flow drop below 250 GPM.



Hartford Fire Department  
Rural Water Supply Exercise  
September 2010

**Fill Site:** The fill site was located at 1705 Route 14, a certified water source which is supplied from a large pond through piping to a hydrant. Hartford Engine 2 was assigned to the fill site and arrived on location at 16:34 minutes after the incident began. The crew established water supply using 5" suction through the front intake. Two 4" lines were placed in operation to fill tankers as they arrived.

