

Egg Harbor Fire Department and First Responders Standard Operating Guidelines

Subject: Relay Pumping

SOG 604

Purpose: To have in place a policy for personnel to follow when relay pumping.

Scope: This procedure applies to all members of the Egg Harbor Fire Department.

Definitions: LDH – Large Diameter Hose
IC – Incident Commander
PSI – Pounds Per Square Inch

1. When to use relay pumping.
 - A. When the distances needed to flow adequate water supply are too long to achieve the flow needed.
 - B. When order to use it by the IC or Water Supply Officer.
 - C. When working down small roads and driveways that hamper the use of tankers to move water to the engine.

2. Setting up to relay pump.
 - A. LDH should be laid between the engines for water transfer.
 - B. Distance between engines shall not exceed 1000 feet to get maximum flow.
 - C. The engine at the water source should start pumping first and dumping the water off until the first relay engine is ready for water.
 - D. Once the first relay engine is ready for water the source engine should open its valve to the relay engine and close the dump valve.
 - E. The pressure should than be increased on the source engine, but not to exceed 175 psi.
 - F. The relay engine intake pressure shall stay between 20 and 50 psi.
 - G. Any other engines in the relay line will duplicate this procedure.
 - H. All pumping will be done in pressure control mode or with relief valves set at proper pressure.

3. Shutting down the relay.
 - A. The engine at the fire scene is the first to shut down.
 - B. The engine will slowly decrease pressure until the pump can be disengaged allowing water to dump off.
 - C. Each engine in line gradually reduce pressure and allow water to dump off and disengage their pump.