Subject: Relay Pumping

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.