**SPECIAL NOTE:**

When preparing the specifications for your new pumper, assure the use of a Hale pump by incorporating these pump specifications as written. No competitive pump can match Hale's construction or performance.

Performance

The pump/engine shall be capable of meeting the NFPA 1906 performance ratings of 50 GPM @ 250 PSI. Typical pump performance from 5 foot draft at sea level shall be: 15 GPM @ 350 PSI, 70 GPM @ 250 PSI and 145 GPM @ 90 PSI.

The pump/engine shall be capable of meeting the USFS Type 4 and Type 6 apparatus ratings of 40 GPM @ 300 PSI, 70 GPM @ 250 PSI and 115 GPM @ 150 PSI.

**Pump**

The pump body shall be made of anodized alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 500 PSI. The impeller shall be bronze and 4.88 inches (123.8 mm) in diameter. The renewable clearance ring shall be made of bronze to inhibit galvanic corrosion. To obtain the required pressures, a built-in oil bath lubricated gearbox shall be provided between the pump end and engine. The gearbox shall be coupled together with a stainless steel band clamp. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

**Priming**

The available priming pump shall be a positive displacement, oil-less rotary vane electric motor driven pump conforming to the requirements of NFPA 1901. The pump body shall be manufactured of heat treated anodized aluminum for wear and corrosion resistance. The pump shall be capable of producing a minimum 24 inHg vacuum at 2000 feet above sea level. The electric motor shall be a 12 VDC (or 24 VDC) totally enclosed unit. The priming pump shall not require lubrication. The priming pump shall be operated by a single push-pull control valve mounted on the pump operator panel. The control valve shall be of all bronze construction.

**Suction/Discharge**

The suction and discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters (2.0” NPT Suction, 1.5” NPT Discharge).

**Engine**

The engine shall be a 4 cycle DIESEL Kubota D902 radiator liquid cooled design. Engine rating shall be 24.8 BHP at 3600 RPM with a torque of 41.3 lb-ft at 2600 rpm. Engine displacement shall be 898cc and the engine shall be EPA Tier 4 compliant. A 12-volt electric system shall be provided with electric starter and a 40 amp alternator. Engine shall be with USDA approved spark arrestor.

**Mounting Platform**

The pump/engine shall be isolation mounted on engine mounting legs.

**Instrumentation**

The pump shall be available with a remote control panel. The control panel shall include a vernier throttle control, start/stop switch, oil pressure warning light, coolant temperature warning light, 2.5” liquid filled suction and discharge gauges and an engine tachometer.