2024 EMERGENCY EQUIPMENT RENTAL AGREEMENT (EERA)

Wildland Fire Hydrants, LLC 1618 E Nebraska Ave Spokane, Wa. 99208

Office/Dispatch: 509-879-4761 Alternate: 509-342-5859 (Owner-Lenny) Mobile

Equipment located in: Spokane, Wa 99208

UEI: UKVWTP99K9M1

Email: <u>Wildlandfh@gmail.com</u> Web: WildlandFireHydrants.com

Comments & Capabilities :

Wildland Fire Hydrants (WLFH) is a Spokane, Washington based Emergency Equipment Rental Agreement EERA, Call When Needed, Incident Only, Non-VIPR Vendor supplying OVERHEAD FILL TOWERS, TENDER FILLING SYSTEMS, ENGINE FILLING SYSTEMS & TASK FORCE FILLING SYSTEMS.

Systems available WET & DRY.

Incident situations and requirements are constantly changing, which is the very reason Wildland Fire Hydrants Plug & Pump Systems were developed. System capabilities were designed to be flexible and easily expandable, adapting to various changing incident requirements and environments to provide pumping capabilities to efficiently and effectively reduce choke points of water supplies.

Plug & Pump is a Water Handling capability designed to increase tanked vehicle efficiencies with improved distribution of water resources, assisting the wildland firefighting effort, air operations and ground support by increasing tanked vehicle efficiency with a system designed to expand piecemeal to provide the necessary flow and fill rate to reduce Fill Time, Wait Lines, Drive Time and overall Turnaround Time.

Systems are designed to operate at Hose Flow Volume with a GPM rate and vehicle fills per hour rate capability greater than other water fill systems currently in use. Our small equipment footprint allows for greater water source access points, with a myriad of configuration possibilities that are designed to meet any situational requirements. Maximum capabilities limited by resource availability and vehicle fill spot availability. Fill spots could easily be where the line would form.

Capabilities Statement :

WLFH Crews dispatch with additional Crew until System is operational and incident requirements met. Once operational, crew size reduces. Some configurations and Incidents may allow for single crew member operations, some configurations will require two crew members while larger configurations could require additional crew. Final crew required to maintain operational viability TBD on site.

We are also now offering DRY, or crewless operations.

WLFH Internal Equipment Cache consisting of backup supplies and equipment. Additional Cache equipment may be dispatched at a discounted rate for situations where Incident requirements are changing and future requirements are unknown.

System expands piecemeal allowing any one pump to combine with others in Tandem or Multi-Pump operations with Single or Continuous Flow with the appropriate number of Direct Hose Connection and/or Indirect Overhead Fill Towers.

All Systems are high volume/low pressure (max 2000 GPM@less than 38 PSI).

Remote Operations- Able to be self-sufficient with the level of support TBD on scene.

Crews camp with equipment.

Hoses and equipment sanitized in accordance with NWCG guide.

Pumping in accordance with Salmon-Challis National Forest requirements.

Capabilities based on 75% optimal pump flow, less than 100' discharge hose.

Filling System configurations have a myriad of DISTRIBUTION and PUMPING GPM options designed to drastically increase tanked vehicles maximum effectiveness by reducing filling time and reducing or eliminating vehicle wait line times as well as being able to access considerably more water sources, if it can be walked to, it can be accessed. A closer water source also shortens drive times.

It all starts with the scalable Distribution system which can be configured for continuous flow able to "tank" every gallon pumped whether via indirect overhead fill or direct hose connection. 3 inch Hand Valve with 2, 2 $\frac{1}{2}$ and 3 inch hose connections with a restricted flow of no more than 225 GPM.

3 inch fill pipe connection capable of 400 GPM.

4 inch overhead capable of 1,000+ GPM Indirect Fill for larger tanked vehicles.

The Pumping System GPM is also scalable from 400 GPM to 2,000+ net GPM. System psi would be determined by set-up configuration, pumping conditions would vary but not exceed 38 psi. Preferred operating psi of 16-24.

A portable fire hydrant that is able to access the resource, hose line able to reach hundreds of feet for vehicle fill spots, with the ability to configure the pumping system (GPM) to the required distribution system (# direct and indirect fill connections) to accomplish desired result (GPH, # vehicles tanked). Configuration set-up time is dependent on requirements, it could take two hours plus to have a system fully operational, limited pumping operations usually possible within an hour. Once assembled, tear down and re-set of the same configuration is considerably less than initial set-up time. Additional capabilities possible under favorable pumping conditions, under less than favorable conditions additional pumping capability would be necessary to maintain desired flow volume.

Specs:

Single and Tandem or dual pump configurations are limited to what the pumping situation allows. Most setup would range from 300-800+ GPM.

Single configurations would have an appropriate number of direct fill hose connections based on 200 GPM per connection or single Overhead Fill Tower.

Single flow configurations Vehicles would pull on and off after each other on a single discharge line. Continuous flow configurations would have multiple discharge lines. Discharge lines may be Direct and/or Indirect Fill.

Multi pump configurations of three or more pumps requiring a Manifold allows for a 4 inch 1000+GPM MAIN-LINE capability distributed to 3 or 4 separate DISCHARGE-LINES configured to direct or indirect fill for a managed flow rate up to 2000+ NET GPM.

<u>Overhead Fill Tower/Tender Filling Systems</u> with indirect fill connections are flexible and easily expandable from a single pump and Overhead Fill Tower configuration into a variety of multi pump, multi fill tower configurations. Configuration capabilities base on 2,500 gallon fills and range up to 24 Tender fills per hour at 1,000 GPM continuous flow. Tender Filling Systems are capable of a greater discharge flow up to 1400+ GPM. Vehicles with dry tanks would have the GPM gradually increase as the tank level rises.

<u>Engine Filling Systems</u> with Direct Fill via 2, 2.5 & 3 inch hose connections. Individual hose connections are RESTRICTED to less than 225 GPM. Designed to deliver 200 GPM @ less than 20 psi with a variety of configurations to provide what is required. Configuration capabilities based on 500 gallon direct fills and range to 120+ fills per hour with 1,000 GPM continuous flow. Systems designed to have a discharge connection for every 200 gallons of net pumping volume.

<u>Task Force Filling Systems</u> are a blend of the Tender & Engine Filling Systems with Direct and Indirect fill connections. Designed to fill anything that comes along.

Configuration capabilities based on 5 - 500 gallon direct fills and 1- 2,500 gallon indirect fill and range up to 60 direct fills and 12 indirect fills per hour with 1,000 GPM continuous flow.

Equipment & Crew:

<u>Pumps</u>: 13 HP Honda BE Power Equipment BE-TP4013HM - 4 inch trash pump, 580 MAXIMUM GPM. 26 foot suction pull, 72 foot discharge push, 98 foot total head pressure.

The TP4013HM is WLFHs base pump, a capable and reliable pump which two or three of them together can solve your worst pumping difficulties.

Each pump has its own oversized suction strainer so high volume pumping operations do not operate with a single intake, resulting in considerably less suction pull which is not as intrusive to the habitats the pumps are operating in.

13 HP Honda Echo Bearcat 4422 - 4 inch water pump,422 MAXIMUM GPM.26 foot suction pull, 72 foot discharge push, 98 foot total head pressure.

The 4422 is WLFHs backup and kicker pump for multi-pump manifold configurations,

Pumps include: 50 feet suction hose, oversized suction strainer screened in accordance with Salmon-Challis National Forest requirements, one-way Foot Valve to maintain constant prime, containment berm, associated fittings, supplies, signage.

Indirect Fill Connections:

4 inch custom designed and fabricated aluminum Overhead Fill Towers proven flow rate of 1,400+ GPM, a foot-print of less than 8'x8' allowing for set-up in tight spaces, assembles and disassembles in less than 30 minutes. Towers have 12' downspout clearance with 8'8" arm that swivels 360. Comes with Fill Pipe Connection, locking brake system to hold Tower in place, mirrors, traffic cones, reflectors, signage, night lighting, Flagstaff.

Fill Pipe Connection:

3 Inch line and Hand Valve connection to Direct Fill Tenders that are oversized or unable to efficiently fill via Indirect Fill. Fill Pipe Connections are UNRESTRICTED connections. 2&3" M/FM Camlock Fittings.

Direct Fill Connections:

3 inch Hand Valves with associated hose and fittings are designed to restrict, reduce and slow the flow to deliver 200 GPM at less than 20 psi, restricted to less than 225 GPM.
Hand valve reduces to 2.5 & 2 inch connectors.
2 and 3 inch M/F camlock fittings and 2.5 inch M NH fitting.
Comes with traffic cones, reflectors, signage, night lighting.

Manifold:

8 Port custom designed and fabricated Manifolds are necessary to harness the power and flow of 3 or more pumps to provide the necessary "NET" water flow rate. Single Main-line allows a "NET" or requested flow rate of 1000+ GPM. Dual Main-line allows a "NET" or requested flow rate of 2000+ GPM. Manifolds are able to daisy-chain for greater GPM configurations.

Hose:

4 inch rigid hose, 4 inch rubber water hose and 4 inch lay-flat hose. 3 inch rubber water hose.

150' 4 inch lay-flat hose reel consists of 2 - 5' 4 inch rigid hose pieces, 150' lay-flat hose, associated fittings.

Knife Gate Valves:

To isolate flow to Discharge hose-lines from the Main hose-line. Includes Wye.

Site Setup :

All necessary tools, supplies, job boxes, equipment, crew gear, transport.

Crew Members:

Operational Crew Members have RT-130 training and required PPE with the EXCEPTION to Nomex clothing, Fire Shelter or Radios, to be provided per EERA.

DAILY RATES:

All Systems start with a Base Unit Daily Equipment Rate with any additional Equipment, or other items added.

Additional Equipment receive Equipment Rate Discounts.

Weekly Billing and Weekly Continuing Agreement Discounts may also apply.

Equipment Rate does NOT include any Crew.

Daily Crew-Rates are based on 12 hour Crew shifts. Hours On Duty over 12 hours bill at \$1.00 per minute or \$50.00 per hour per crew member.

Crew Rates are NON-Discountable.

Daily Equipment-Rates are based on 24 hours. No additional equipment charges for additional hours On-Duty.

Crew Member-Setup crew assists with travel and assembly of configuration.

Setup crew do NOT participate in Operations.

Crew Member-Operators crew Site Setups during Operations.

Crew Member-Leads are required at all Crewed Incidents. Leads able to manage multiple Sites and Operators.

Crew Member-Technicians manage DRY Agreements.

DRY Rate- some Incidents may allow for Dry or non-crewed setups. As all setups require daily maintenance, a Crew Technician would be necessary to maintain operational viability and ensure Set-ups are operated accordingly. Individual crew Technicians could manage several setups.

DRY Rate Agreements will require up to a week of Crewed status while all aspects of un-crewing of sites occur and Parties are in agreement that DRY status applies. Overall Fill Times will not be as efficient without dedicated Crew Operators.

The following represents the Daily Equipment Rate of Base System configurations. Overall Systems include, are not limited, or inclusive examples of all possible configurations.

BASE UNIT:

TENDER FILLING SYSTEM:

1 - 580 GPM Pump, 1 - Overhead Fill Tower, 1 - 150' lay-flat hose reel, Site Setup. \$900.00 daily rate.

ENGINE FILLING SYSTEM:

1 - 580 GPM Pump, 4 - Direct Fill Hand Valve Connections, 1- 150' lay-flat hose reel, Site Setup.

\$950.00 daily rate.

TASK FORCE FILLING SYSTEM:

1 - 580 GPM Pump, 1 Overhead Fill Tower, 2 - Direct Fill Hand Valve Connections,

1 - 150' lay-flat hose reel, 2 - Knife Gate Valves, Site Setup.

\$1,200.00 daily rate.

ADDITIONAL EQUIPMENT DAILY RATE:

Crew Member - Operator & Setup: \$400.00 Crew Member - Technician: \$450.00 Crew Member - Lead: \$500.00 580 GPM Pump - \$250.00 422 GPM Pump - \$225.00 Overhead Fill Tower - \$250.00 Fill Pipe Connection w/ Valve & Wye - \$100.00 Single Direct Fill Hose Connection- \$75.00 Dual Pump Manifold - \$50.00 Multi-Pump Manifold - \$150.00 Single Valve - \$50.00 Knife-Gate Valve w/Wye - \$100.00 Transport Vehicles - \$200.00 Other Vehicle - \$150.00 150' Lay-Flat Hose Reel w/ Fittings - \$100.00 Site Setup - \$300.00 Extended or Night Operations - may require additional crew - \$0.00

Service Area:

Wildland Fire Hydrants is available to provide services in the following States;

Idaho, Montana, Nevada, North Dakota, Oregon, South Dakota, Utah, Washington & Wyoming.