



FOR PRESENTATION TO FISP-TC

US-P-20 INITIATIVE

WHY DO WE NEED A NEW POINT SAMPLER?

- Antiquated point samplers designed in the 1960's and 1970's are becoming more difficult to maintain. Many of the components are not interchangeable without machining. Some that are interchangeable, such as the solenoids, can be difficult to find and are likely no longer manufactured.
- More recent designs, such as the US-P-6-, currently produced by Carnet Technology, have successfully demonstrated many improvements:
 - the head which houses the valve mechanism can be made significantly smaller and lighter
 - the tail and tailfins can be made to be replaceable
 - shorter, straighter passageways (compression, exhaust) for easier troubleshooting and cleaning
- Uncertainty to the future of the P-6, and P-6 plungers and solenoids
- Current samplers can not securely attach or house surrogate instrumentation
- A modern sampler, designed and approved by the FISP with the future in mind, is a worthy investment
- To glean and document industrial knowledge of sampler development, testing and production

WHAT DO WE NEED IT TO DO?

- Iso-Kinetic
- Collect up to 750mL
- Operate on 24V DC
- Velocity range of 1.5 – 15 ft/s
- Depths up to 150 ft
- House and/or securely attach surrogate instrumentation payload