

Scope of Work (SOW)
For
Inner Diameter Measurement System

Dated February 27, 2023

1. The vendor will design and build an inner diameter inspection system capable of measuring 69 +/-10mm and 122 +/-10mm diameters.
2. The accuracy of the diameter measurement shall be +/-0.03mm.
3. Each cross section measurement shall include 256 measured points.
4. The individual pipe lengths to be measured shall not exceed 15m.
5. The linear positioning accuracy shall be +/-1mm.
6. The linear translation speed shall be programable from 1 to 10mm/s.
7. The measurement system shall be powered by a rechargeable lithium ion battery.
8. A spare battery and charging device shall be included with the system.
9. Software with the ability to recreate a 3D surface of the inner pipe geometry shall be included (min and max diameter, ovality, comparison to ideal surface).
10. The measurement system will also include a forward facing camera with LED light.
11. A calibration tool will be included with the measurement system.
12. A storage case for the system will be included to prevent damage when not in use.
13. The vendor will provide a design concept and layout as part of the NRE.
14. Final payment for the system will be issued after testing and approval at Brookhaven.