

**Product** 1100 Series Magnetic Level Indicator (MLI)  
**Application** Small SG Applications  
**Industry** Oil & Gas

**Challenge** A top provider of midstream services in the Houston metro area struggled to maintain more than 20 sight glasses with low Specific Gravity (SG) restrictions. Handling light hydrocarbons could pose a fire risk due to the poor visibility of process fluids as well as the long-term economic costs of repairing and refurbishing these sight glasses.

**Solution** Use of the 1100 Series Magnetic Level Indicator (MLI) and vista™ indicator in this application provided upgraded visual indication. SOR also custom engineered a new float design specific to their low SG constraints.

The custom low-SG float design provided the right balance between weight and volume to ensure the float rides smoothly on top of light hydrocarbons. To maintain consistency throughout the magnetic field, six Alnico 5 magnets were wrapped around the circumference of the float in a proprietary SOR® gun belt magnet design. Furthermore, several weld rings were installed along the long float to provide additional support and mitigate potential float failures.

This solution allowed the customer to upgrade their instrumentation while still utilizing a design that required no piping modifications for installation.

Read more about the 1100 Series Magnetic Level Indicator <https://www.sorinc.com/1100mli>

