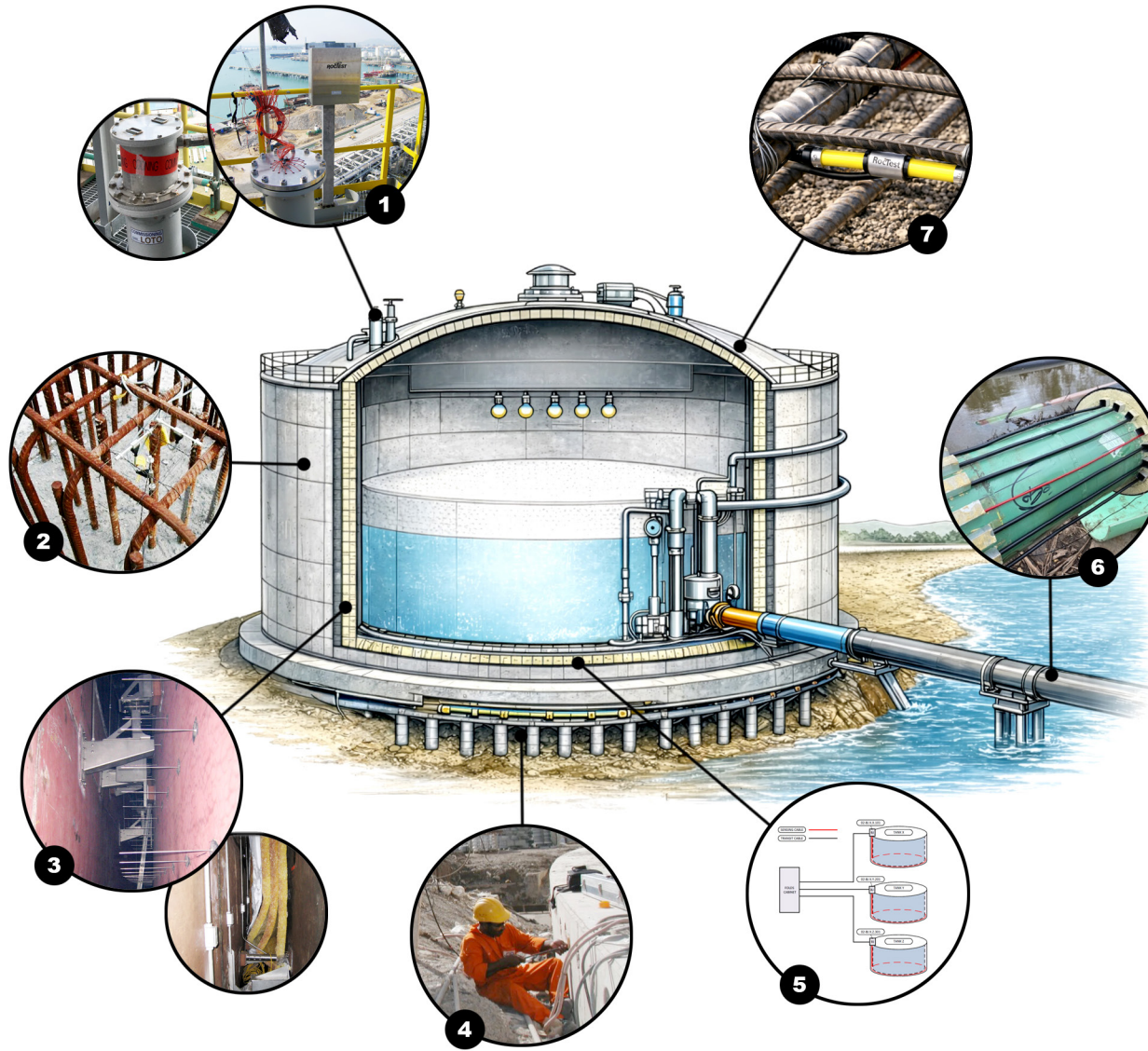




- 1 Counter-flange and junction box** where fiber-optic cables exit the tank and all sensing cables are spliced into a multi-fiber trunk cable.
- 2 Vibrating-wire strain gauges** embedded in the concrete wall to monitor concrete strain during curing and throughout the service life of the structure.
- 3 Structural movement monitoring system** installed in the annular space between the outer concrete wall and inner steel liner measures displacement from thermal and operational loading.
- 4 Inclinator system** (manual or automated) to monitor foundation slab deflection and settlement during tank operation.
- 5 Perimeter leak-detection system** using distributed fiber-optic sensing cables installed around the tank at multiple elevations.
- 6 Pipeline leak-detection system** using distributed fiber-optic sensing cables installed along the LNG transfer pipeline.
- 7 Vibrating-wire strain gauges** embedded in the concrete dome to monitor concrete strain during curing and over the lifetime of the structure.