Sample Specification for Oil Water Separator Montior
(Model 2114-OWS series)

The level probe shall be of a high frequency capacitance technology to monitor for the dielectric change between the water and the surface oil. The separator shall maintain a stable upper liquid surface level. Incoming oily water will displace an equal volume of clean water out.

The main electronics is to be an intelligent (smart) controller mounted remote from the probe using a 2-conductor shielded wire. This will be housed in a Type 4X enclosure with viewing window for the display. The display will indicate in inches or centimeters of oil level.

All calibration, power and control wiring shall be at the control unit. Power input shall be specified as 24vdc or 120 vac or 230 vac. Calibration, diagnostics and menu selection shall be accessed by keypad entry and displayed on a four line LCD backlit display.

The output shall be an isolated 4-20 mA signal proportional to the user calibrated range. A single entry value for calibration will be required after installation. A zero or span is not to be required. Four independent relays will be available. Two relays are for user settable alarm points. Each will have time delay, high low fail-safe selection, and full differential for cycling the relays between two points. One relay will latch and run for a user specified time for pump out control. One relay will indicate a maintenance or circuit failure.

The sensing probe shall be of Teflon and 316 SS wetted parts with a cast aluminum , epoxy coated explosion proof junction head. The probe shall have an included 316SS concentric shield for linearization and calibration.

The probe length is to be sized to the application. Typical installation is in the manway. The probe head will be above the high water surge mark. The probe will extend down to the 50% diameter point in the tank.

The standard probe assembly shall carry a CSA Class 1 Div 1 Approval.

The level system shall be the Level-Ease 2114-OWS series as manufactured by Arjay Engineering, www.ArjayEng.com.