INTERNAL RISER INSPECTION DEVICE AND METHODS OF USING SAME

ABSTRACT OF DISCLOSURE

An inspection apparatus includes an inspection unit that is lowered into vertically supported pipe filled with seawater. The apparatus includes a pipe weld location detector module carried by the inspection unit. The apparatus also includes a rotating time of flight diffusion (TOFD) module and a non-rotating wall thickness module carried by the inspection unit. The module includes a pair of rotatably mounted weld volume inspection transducers rotatable by an operator and adapted to inspect for and obtain data on weld volume defects. The TOFD module has a fluid carrier positioned within the TOFD module and contains an acoustic fluid. The non-rotating wall thickness module also contains an acoustic liquid and includes a plurality of fixedly mounted wall inspection transducers adapted to obtain data on wall thickness of a portion of the pipe.

Figure : None