

DRILLING RISER ADAPTER CONNECTION WITH SUBSEA FUNCTIONALITY

ABSTRACT OF THE DISCLOSURE

A drilling riser adapter (11) variably connects and releases a riser (17) from a subsea wellhead assembly. The drilling riser adapter (11) has a hydraulically actuated engagement assembly (41) for selectively engaging and disengaging a lower end of the marine riser (17). The drilling riser adapter (11) also includes a control panel (141) communicatively coupled to the engagement assembly (41) for actuating the engagement assembly (41) to engage and disengage the lower end of the marine riser (17). The drilling riser adapter (11) also includes a hydraulic fluid pressure receptacle (135) on the control panel (141) for engagement by a remotely operated vehicle to supply hydraulic fluid pressure to the engagement assembly (41). The drilling riser adapter (11) may be actuated subsea to release a first riser from the wellhead assembly, and connect to a second riser.

Figure 2