ShuttlePilot Options

ESD - Emergency ShutDown System

ShuttlePilot offers an Emergency Shutdown (ESD) system if required. This has been designed for pilots to be able to stop an operation (such as pumping) at the touch of a button.

(Secure UHF transmission between FPSO and the ShuttlePilot Remote)

(ShuttlePilot Fixed in situ on the FPSO)

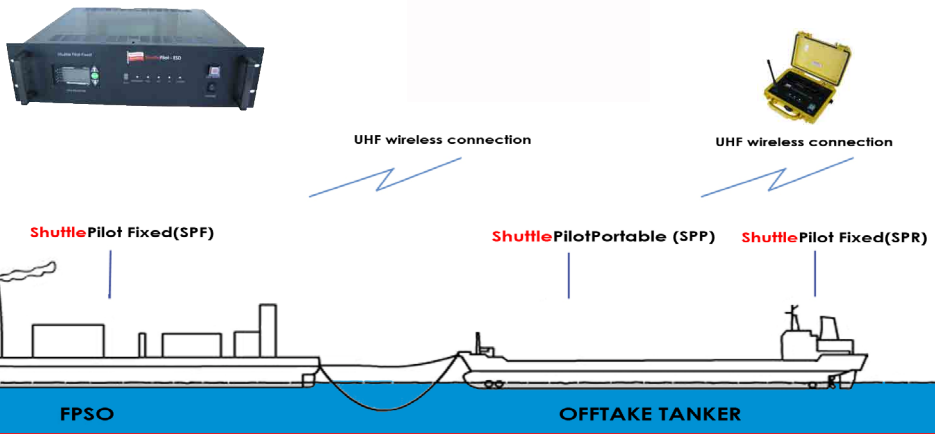
(ShuttlePilot Remote with ESD shutdown switch enlarged in exert)

ShuttlePilots ESD system can be attached to an emergency system via a relay on the ShuttlePilot Fixed unit situated on the FPSO. The Pilot's remote unit contains a flashing button for assurance of an established secure UHF link between the remote and fixed unit. After the ESD is activated, it can only be reset on the ShuttlePilot Fixed unit.

(ESD Reset Switch)

Benefits of the ShuttlePilot ESD

- Added safety device
- Closed secure system
- Flashing button adds confidence in operation
- Shutdown can't be accidently reset



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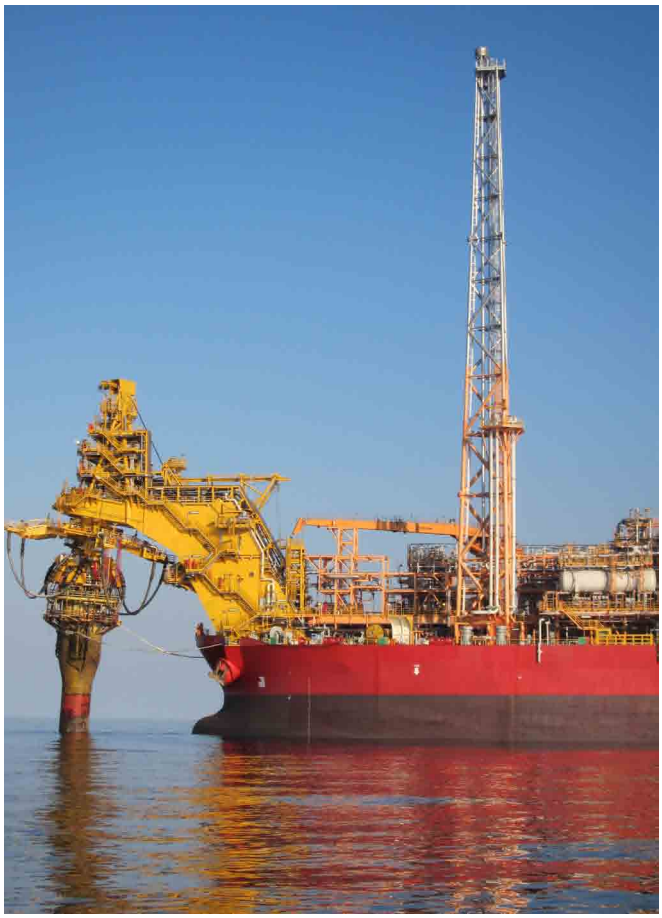
ShuttlePilot Options

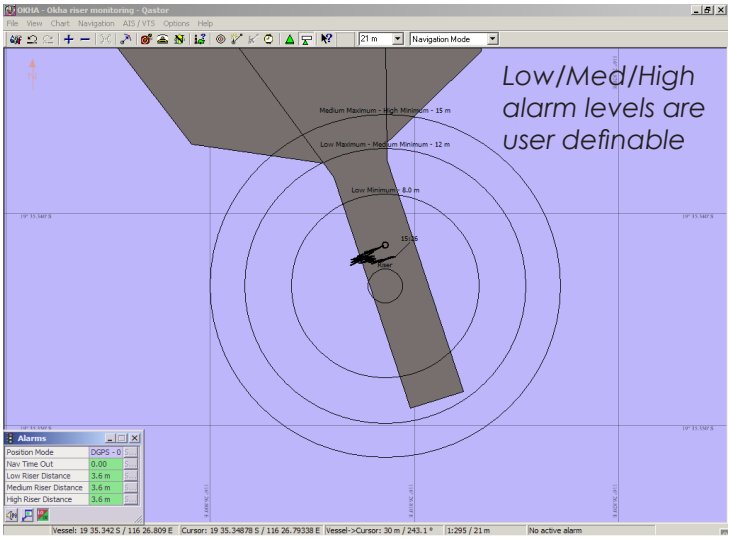
ShuttlePilot Riser Monitoring System

ShuttlePilot Riser Monitoring System (aka Vessel Excursion System), offers continuous display of postion of the turret centre with respect to a nominal stable riser position.
Any movement of the turret away from the geographical location is indicative of a sub-sea problem with the riser.

(Image to the right : FPSO having just finished a successful Riser mooring)



(Image below : Riser monitoring soft-ware showing concentric alarm levels around the nominal riser position)



ShuttlePilot Riser Montoring offers

- Continuous display of turret position
- Concentric circles with user definable alarm levels - visual and audible
- Options to display riser angle if avail-able
- Riser angle alarm cut-off if required
- Riser connected/not connected cut-off if required
- Option to output alarms and data to Central Alarm and Monitoring System. Including:
    - Riser Alarms
    - Heading and rate of turn

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