

OnTrack Downlink

Automated mud pump pulse telemetry control

APPLICATIONS

- Directional drilling and rotary steerable system (RSS) operations
- Logging while drilling (LWD)
- Measurement while drilling (MWD)

ADVANTAGES

- Increased success rate of downlink commands and reduced associated risk of sending incorrect commands
- Improved rig-time efficiency by reducing the amount of time spent downlinking
- Enhanced operational efficiency by enabling remote directional drilling operations
- Boosted versatility with the ability to work with any mud pump type

OnTrack Downlink* automated mud pulse telemetry control improves the speed and efficiency of mud pump pulse telemetry commands that automate downhole tool control. Mud pump downlinking is widely used for directional drilling, LWD, and MWD applications.

Efficient command transmission

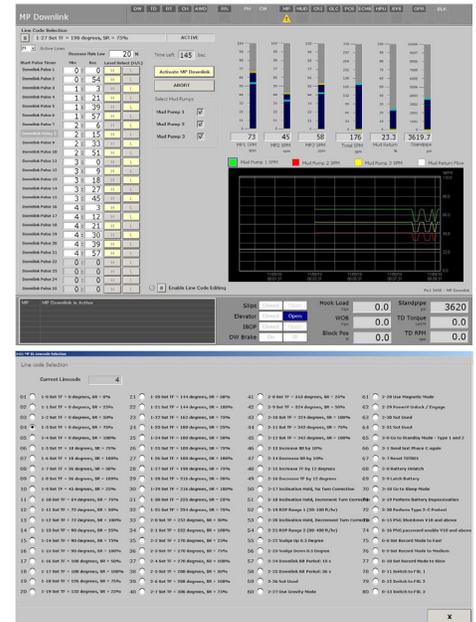
Compared with conventional manual downlinking in which the operator is responsible for manually adjusting the mud pump strokes per minute, OnTrack Downlink control sends commands to the downhole tool by adjusting the mud pump's strokes per minute to create mud-pulse patterns that the downhole tool can decode. As such, the control significantly reduces the time spent sending commands.

Versatile line code features

In addition, OnTrack Downlink control incorporates several features for efficient and intuitive configuration of mud-pulse telemetry commands. A line code selection of up to 80 unique predefined pulse commands can be easily selected from a list in the human machine interface (HMI). Line code pulses can be easily reconfigured, and all pulses are time-based from time zero of the command (each pulse is performed sequentially from time zero). All line codes are editable in terms of both the name and line code itself (restricted by a password). Moreover, line codes can be edited from the X-COM* operator chair and may consist of up to 25 pulses.

Integration and retrofitting capabilities

OnTrack Downlink control can be activated at the click of a button in the HMI of the X-COM operator chair. Additionally, the control can be easily retrofit into existing OnTrack* integrated drilling control systems with no additional components required for installation. OnTrack Downlink control enables the operator to account for individual stroke-per-minute settings for the various pumps and select the number of assigned mud pumps based on ongoing operations.



With the ability to activate at the click of a button, OnTrack Downlink control reduces the time spent sending commands.

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