



KruseDQM

Pipeline Dredging Quality Management System

WORK EVENT		BOOSTER PUMP EVENT	
Work Event Time	2016-12-10 13:44:12	Booster Event Time	1970/01/01 00:00:00
Vertical Correction	12.70	Booster Total	2356
Cutter Latitude	1234570.000000	ADVANCE EVENT	
Cutter Longitude	2345680.000000	Advance Event Time	1970/01/01 00:00:00
Cutter Depth	9.26	Daily Advance	246
Cutter Heading	234	OUTFALL POSITION	
Slurry Velocity	16.14	Outfall Event Time	1970/01/01 00:00:00
Slurry Density	1.51	Outfall Location	Outfall Location Comment
Pump RPM	1672	Outfall Latitude	234568
Vacuum	22.00	Outfall Longitude	246
Discharge Pressure	48.00	Outfall Elevation	342.00
CONTRACT EVENT		NON EFF EVENT	
Contract Event Time	1970/01/01 00:00:00	Begin Downtime	1970/01/01 00:00:00
Contract Number	123478-98	End Downtime	1970/01/01 00:00:00
Event Type	Start	Function Code	Function Code Here
PIPE LENGTH EVENT		STATION EVENT	
Pipeline Event Time	1970/01/01 00:00:00	Station Event Time	1970/01/01 00:00:00
Floating Length	1000	Station Name	Station Name Message Here
Submerged Length	356		
On Land Length	123		

Event Management Screen

Tested & Certified by the US Army Corps of Engineers

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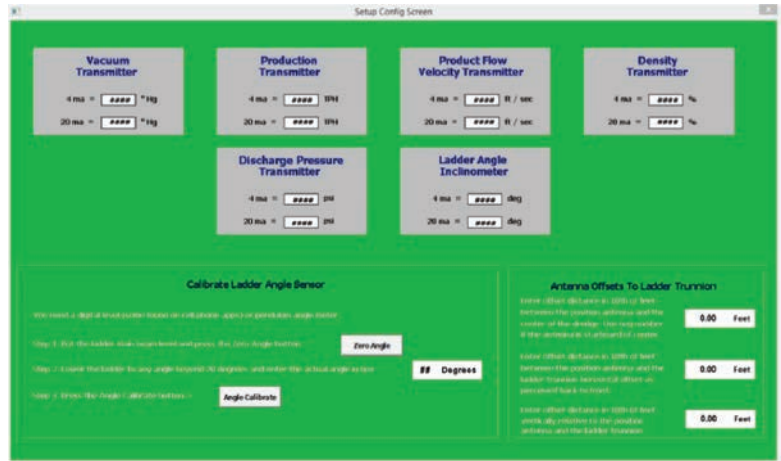
Compliance with the National Dredging Quality Management Program monitored by the U.S. Army Corp of Engineers (USACE) is here. **Kruse Integration**, an industry leader in dredge automation, has the solution and the system to keep your pipeline dredging operation in compliance. Working closely with the Army Corp DQM division, **Kruse Integration** has developed a user-friendly DQM interface package that meets all required specs with nonproprietary software and hardware. KruseDQM works seamlessly with all instrumentation and PLCs and works independent of any selected positioning software system.

Pipeline Dredging Quality Management System

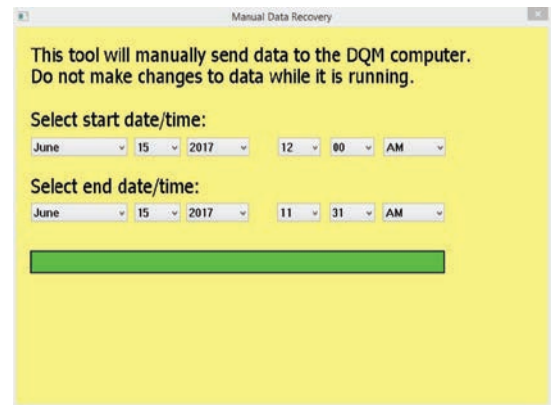
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KruseDQM System Features:

- Quick and easy install, setup and configuration
- User friendly, intuitive graphics interface for events entry
- Dredge Specific System (DSS) computer as well as DQM ship server and UPS
- A complete Dredge Plant Instrumentation Plan (DPIP) is supplied with the system
- Uses non-proprietary software and works independently of your current positioning software
- Complies with required data backup and recovery issues upon disconnect
- Provides ongoing sensor maintenance and logs throughout life of contract
- System includes instrumentation, setup, calibration, and user friendly graphics
- Connects to any GPS receiver via serial port or ethernet
- Communication drivers for all PLC brands included. If your dredge isn't equipped with a PLC, we include an instrument box with an A/D converter
- Initial field calibration and startup
- Onsite setup and training



DQM Setup-Config Screen



Manual Data Recovery Screen



GPS-OPC Interface

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Contact Jay Wise at Kruse Integration to schedule a free DQM system consultation