



National Dredging Quality Management Program (DQM)

DREDGE PLANT INSTRUMENTATION PLAN (DPIP) PUNCH LIST—MECHANICAL

The Dredge Plant Instrumentation Plan (DPIP) for mechanical dredges shall include the following as a minimum.

Note: The DPIP must have a Table of Contents in the following order and tabs separating sections.

Cover Page **Dredge Name**
 Document Date
 Photo of Plant

Table of Contents

New Page **Dredge Contacts**

- Dredging Company
- Dredge Point of Contact On Site
- Phone Number
- Email Address

Dredge Monitoring System Provider

- Dredge Monitoring System Point of Contact
- Telephone Number
- Email Address

New Page **Table of Dredge Characteristics**

- Dimensions of Dredge
- Lifting Capacity
- Boom Length
- Bucket Capacity
- Minimum and Maximum Digging Depth
- Minimum and Maximum Swing Radius

Sensor Data Collection Method

- Any Averaging
- Transmission from Dredge to DQM Center
- Internet Connection Type and Provider

Sensor Descriptions, Locations, and Calibration Methods

- **Positioning System**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
- **Dredge Heading Instrumentation**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
- **Boom Angle**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
 - Calibration Procedure
- **Bucket Position**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
- **Bucket Heading**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
- **Bucket Depth**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
 - Calibration Procedure
- **Vertical Correction (Tide)**
 - Brand Name, Model, and Accuracy
 - Any Calculation Done External to the Instrumentation
 - Sensor Location with Referenced Dimensions
 - Calibration Procedure

Quality Control

- Description of the Contractor's Quality Control Process
- Log of Sensor Calibrations, Repairs, and Modifications

Appendices

- Legible Dimensioned Drawings of the Dredge with Units in Feet
 - A Typical Plan of the Dredge Showing the Following:
 - Overall Dredge and Boom Dimensions
 - Locations of Required Sensors Referenced to Uniform Longitudinal and Transverse Reference Points
- Sensor Manuals and Certificates of Calibration