



## 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  
                    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

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New Page	<p>Sensor Data Collection Method</p> <ul style="list-style-type: none"><li>• Any Averaging</li><li>• Route from Sensors to DQM Computer</li><li>• Internet Connection Type and Provider</li></ul>
New Page	<p>Sensor Descriptions, Locations, and Calibration Methods</p> <ul style="list-style-type: none"><li>• Positioning System<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li></ul></li><li>• Dredge Heading Instrumentation<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li></ul></li><li>• Boom Angle<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li><li>○ Calibration Procedure</li></ul></li><li>• Bucket Position<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li></ul></li><li>• Bucket Heading<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li></ul></li><li>• Bucket Depth<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li><li>○ Calibration Procedure</li></ul></li><li>• Vertical Correction (Tide)<ul style="list-style-type: none"><li>○ Brand Name, Model, and Accuracy</li><li>○ Any Calculation Done External to the Instrumentation</li><li>○ Sensor Location with Referenced Dimensions</li><li>○ Calibration Procedure</li></ul></li></ul>

#### 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