

## **Activity 165 Drawbridge Operations**

### Description

Activity 165 involves operating, servicing, and monitoring moveable bridges. It includes all maintenance, operation, and repair of all elements needed to accomplish the moveable operation of the bridge, including maintenance or repair of:

- Gate tender house.
- Gates and/or barriers.
- Towers involving mechanical devices. Including the maintenance or repair of counter weights and cables.
- Signing, flashers, and beacons warning of bridge operation, except for variable message signs.
- Pavement legends related to operation of the moveable bridge.
- Audible warning devices.
- Electrical and mechanical systems.

### General Information

Refer to discussion in the General Instructions section preceding Activity 160 in this section of the *Maintenance Guide* for additional information including environmental and traffic control recommendations and other important considerations.

The District Manager and the Manager responsible for operation of each moveable bridge, with input and guidance from the Bridge Maintenance Engineer, should develop an operation and maintenance plan for each moveable bridge.

The plan should include:

- Procedure for stopping traffic and operating the moveable bridge, including the process and timing for requesting the bridge operation and allowable times for bridge operation.
- Schedule for routine maintenance of the elements of the moveable bridge.
- Schedule for inspecting specified elements of the moveable bridge.
- Process to accomplish non-routine maintenance and needed repairs.
- Required reporting or notification to the United States Coast Guard or other entities.
- Compliance with applicable federal regulations.

Charge the appropriate maintenance Activity for all maintenance and repair that is not associated with the moveable bridge operation.

Charge Activity L18 in TEAMS and Activity 305 in MMS, for maintenance or repair of permanent variable message signs related to operation of the moveable bridge.

Refer to Activities 160, 162, 163, 168, or 169 for work associated with those Activities and not related to operation of the moveable bridge.

### Equipment

Select equipment suitable for the work and situation.

### Materials

Select materials needed to perform the work, including the proper quality.

### Work Method

1. Identify the work to be performed and obtain needed resources.
2. Implement appropriate traffic control.
3. Implement appropriate methods to control erosion, sediment and removed or waste products.
4. Perform maintenance, repair, or operation work.
5. Remove traffic control.
6. Dispose of waste or excess material at an appropriate location.

### Measurement of Accomplishment, Expenditure Account, and Charge Activity

If another entity must be billed for some incurred costs, record information as required for the agreement related to the structure, for example the states of Washington or Idaho for structures over the Columbia or Snake Rivers.

Measurement is number of worker hours involved. Expenditure account type is Drawbridge EA; use a sub job appropriate for the crew performing the work

- Charge all work to Activity 165.