



CONTAINMENT BOOM

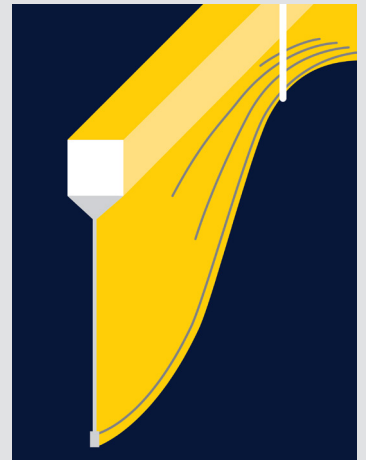
GENERAL INSTALLATION GUIDELINES

Preparation for Boom Field Fabrication

- All anchors, anchor lines, furling lines, anchor buoys, lighting and material handling equipment should be on-site before initiation of in-field boom fabrication.
- Two-way communication will be required to coordinate on-shore work activity with either in or on water or opposite shore work activity.
- The on-shore anchor points must be installed and checked for the required strength.
- All in-water anchors, anchor buoys, bridle lines, retrieval lines and retrieval buoys should be properly installed at the locations indicated on the plans.
- The site should have a staging area of sufficient size adjacent to the shore which will be used for boom field fabrication. This area should be relatively flat and free of debris which might cause damage to the boom fabric.
- A plan which identifies the sequence of boom fabrication should be prepared and on-site.

Boom Field Fabrication

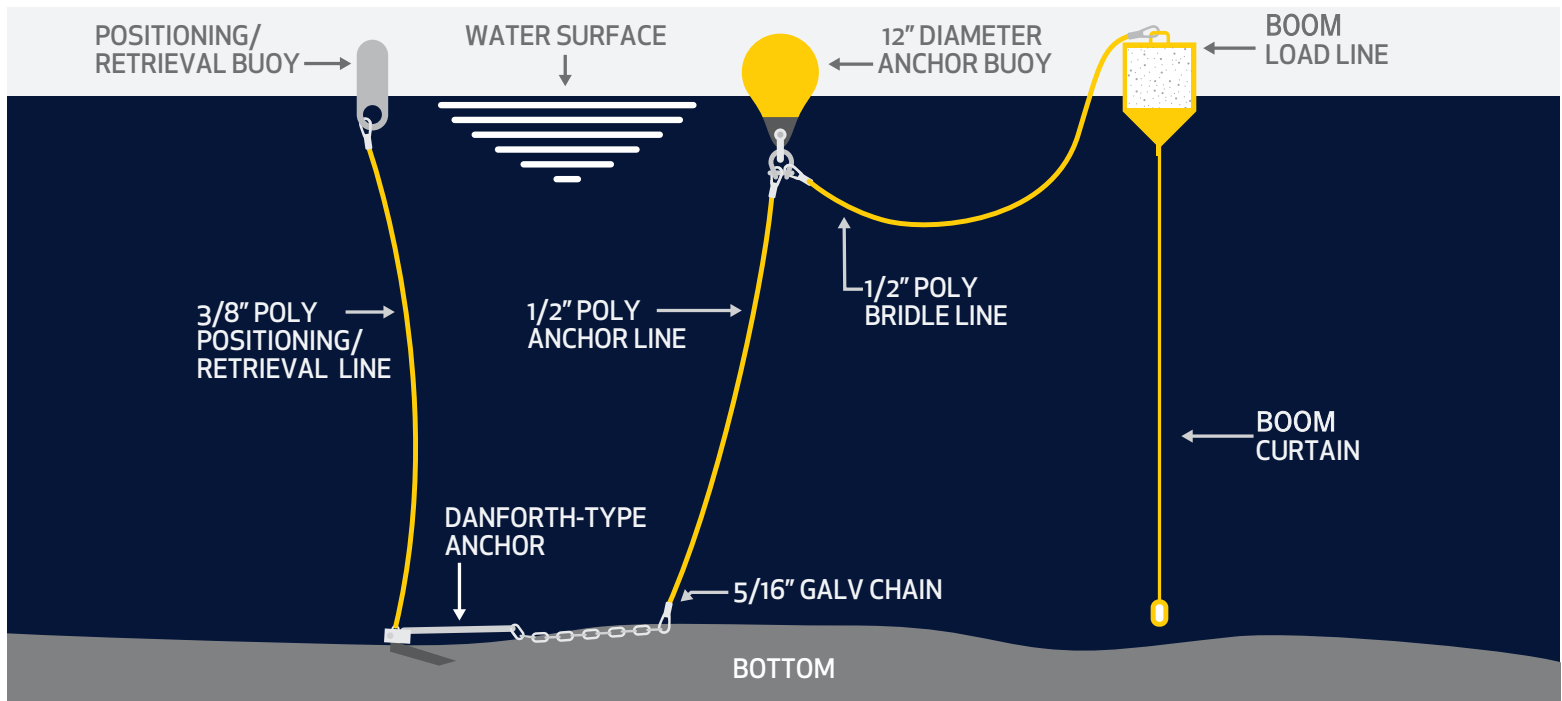
1. The boom sections may be unloaded and placed adjacent to the staging area.
2. The first boom section unfolded will be that section which will be first launched into the water [typically, this section will be located the furthest away from the staging area after installation is complete]. The boom will be assembled in order starting from this first section.
3. The first boom section is laid out flat near the shore line, with the top load cable extending outbound from the shore.
4. Unfold the second boom section and position its edge adjacent to the first. Ensure both booms are oriented the same way—for example, with the load cables on the same side of the boom sections.
5. Slide the aluminum universal end connectors together to join each section, then secure them in place using the toggle pins.
6. If furling the boom's curtain for installation follow steps 7 & 8 on the right.



7. Place a furling line at the approximate center of each flotation block. Use a minimum of 1/4" diameter, twisted, black poly rope for the furling lines. If these lines are to be used to re-furl the curtain for removal from the water, they must be at least twice the curtain depth plus 6 feet (2 meters) so that they can be left in place when the curtain is unfurled.
8. Bundle the bottom of the first curtain and a convenient length of the section curtain up to the flotation chambers and tie with the furling lines. Please review the picture above.

CONTAINMENT BOOM

GENERAL INSTALLATION GUIDELINES (continued)



Boom Launching

1. A portion of the first section can now be floated into the water. Carefully slide the leading edge of the first section into the water and secure the leading end to the work boat or winch pull cable. If a work boat is used, it should be rigged with a long line which is attached to the load cable of the first boom in such a way so that the boom can be positioned without interfering with maneuvering of the boat.
2. Unfold the third section in the sequence and repeat the procedure, attaching the universal end connectors together with toggle pins extending the boom into the water. The work boat will control the boom sections as they are assembled and extended along the boom alignment [assuming the launch direction is in-line with the final boom alignment].

Boom Securing

1. When the last section has been attached, launched, and anchored to its shoreward anchor point, and the entire assembly has been extended and secured to the opposite shoreline anchor point, the intermediate anchor points are then connected to their respective boom sections via the bridle lines. If intermediate anchors are used on both sides of the boom it may be necessary to work from one side of the boom before proceeding to the opposite side. If the anchors have been properly positioned, their buoys will be easily identified and matched to the corresponding section.
2. After all the intermediate anchors have been connected, proceed along the boom line (allowing the curtain to descend to its full depth if furled). Re-tie the furling lines ends so that the lines can be reused during furling operations prior to curtain removal.)
3. Attach any required navigation lights and buoys to the anchor buoy lines.

Boom Retrieval

1. Reverse the deployment procedure to recover the booms for storage.
2. If using furling lines, bundle the ballast and curtain up to the flotation at the mid-section of the floats.
3. Each section should be cleaned, dried and folded into its original configuration for storage.
4. Any required repairs should be made at this time.