

Standard Operating Procedure 2005

Sorbent Boom



Equipment Description

This oil boom has strong absorbent characteristics and is typically used for rapid deployment in sheltered water areas, ports and harbours for the absorption of oil and the protection of resources. Avoid use with heavy oil that will coat the external part of the boom only.

Technical Specification

Weight: 4 kg per length (dry)

Length: 3 metres per length

Diameter: 0.27m

Oil Absorption Capacity: 76 litres (approximately)

Health and Safety



To safely operate this equipment 1-4 people are required.

Safe Operating Requirements

- All personnel are to be trained in the use of Sorbent Boom, or under the close supervision of a trained operator
- Job Safety Analysis (JSA) to be conducted prior to work commencing. Identification of the following safety factors are critical, but not limited to: Manual Handling, Slips/Trips/Falls, Vehicle/Vessel Movements, Pinch Points and Personnel Contamination/Decontamination.
- Ensure adequate Personal Protective Equipment (PPE) is worn – as detailed above. * Life jackets must be worn near water
- Be aware of the recovery weights of sorbent boom and the hazards around recovering contaminated booms
- A communication plan must be decided upon to ensure clear and concise communication at all times
- All incidents, accidents and near misses must be reported as per AMOSC company policy.

Operational Instructions

Assembly

- Determine the appropriate amount of sorbent boom to be used
- Lay the boom and connect, using the retaining clips (see Diagram 1)
- The booms are to be overlapped to ensure there is no gap between the boom lengths (see Diagram 2)



Diagram 1



Diagram 2

Deployment

- Secure one end of the boom to an appropriate attachment point.
- Feed the boom into the water, making sure it is free from obstructions (e.g tree branches).
- Fasten the seaward end of the boom to an appropriate attachment point.

Note – The use of a vessel and small anchors may be required to secure and configure the boom appropriately.

- Monitor the boom to ensure it is being kept clear of obstructions as the tide rises & falls.
- Continue to monitor the oil retention capacity of the boom

Retrieval

- Prior to retrieval, the shoreline crew are to prepare a temporary storage container for storage of any contaminated boom.
- If the boom has been anchored, the vessel crew are to weigh the anchor using the tagline.
- If a vessel is being used, the vessel crew are to proceed with the towing of boom towards the shoreline. Once in close proximity, pass the tagline to responders on shore to proceed with recovery of boom.
- Remove the booms from the water. * See “Caution” below
- Place the boom into the temporary storage container.

Caution

- If the boom has been contaminated with oil, care must be exercised when retrieving the boom to avoid causing secondary contamination. The boom must be carried, not dragged, across the shore. Utilise a ground sheet/sorbent boom/temporary storage container/bunded area to mitigate secondary contamination.

Post operation – Contaminated boom

- Temporary storage containers are to be adequately sealed and removed from the site.
- Dispose of the sorbent boom via an approved waste collection agency.

Post operation – Uncontaminated boom

- Hang the boom to dry.
- Boom to be dry prior to inspection, re-stowage and storage.

Additional Information

Maintenance

- All maintenance and storage are to be completed in accordance with either the manufacturer or AMOSC procedures.
- All equipment must be left in an operational condition when not in use.
- All defects must be repaired immediately or the equipment be “tagged out” for maintenance and repair.
- All used boom is to be accounted for and AMOSC stockpile to be replenished.

Related Documents

AMOSC HSSE Plan
PN08 - HSSE Policy
AMOSC JSA Template
PN 11 AMOSC Vehicle Use Policy (AMOSC Vehicle Checklist / AMOSC Load Assessment Checklist)
SOP 1001 Ops; Forklift Operations
SOP 1002 Ops; Loading and Securing of Cargo
SOP 1003 Ops; Transporting Equipment To/ From Warehouse
SOP 1007 Ops; Anchor Deployment