



# Spill-Tain™ Fire-Proof Boom



1981 Tow: Pre-Burn Galvanized Boom



1981 Burn: Galvanized Boom



1995 Tow: '81 Burn Galvanized And New Stainless Boom



1995 Burn: '81 Burn Galvanized And New Stainless Boom

## Burns And Tows

**Reusable, Cost Effective and Environmentally Sound,** Spill-Tain™'s new, flexible boom design combines extremely long lasting 316 stainless steel and steam-cooled foam glass flotation. Specially shaped, hinged panels float independently without transferring vertical loads to adjacent panels. This helps the boom to better follow short period wave patterns, thus improving oil containment.

### Spill-Tain™ boom features:

\* **Rapid Deployment, Compact Shape, Light Weight**  
Self-righting and with automatic float extension, this boom connects together quickly with simple fasteners. Requiring minimum personnel, it deploys easily from a folded position on pallet, dock, deck, beach or ramp. Short boom sections may be easily transported and positioned by one person.

\* **Effective Containment** - This boom does an excellent job of containment under burn and non-burn conditions. It does this repeatedly and over extended periods of time.

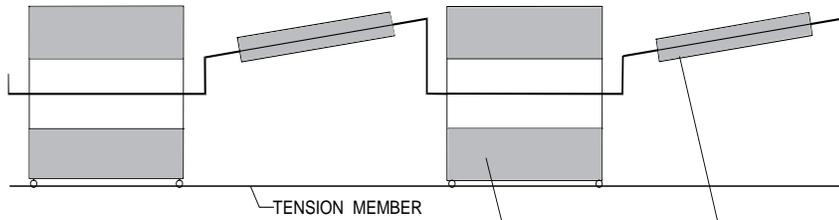
\* **Reliable Operation** - Spill-Tain™ boom may be towed trailing at 25 knots without damage. It survives well even when positioned for grounding with tide changes.

\* **Fireproof** - It survives and contains burns well and continues to do so repeatedly.

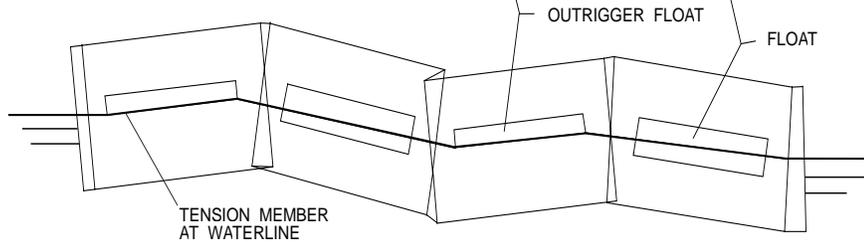
\* **Reusable** - Reusable after oil and burn exposure, the boom can be washed down with a solvent and an emulsifier prior to repackaging and storing in a ready state for future use.

\* **Environmentally Friendly** - "Green" Spill-Tain™ boom components are 100% recyclable.

**TOP VIEW - TWO BOOM SECTIONS**



**FRONT VIEW - BOOM IN WAVES**



Folded Galvanized Boom On Beach, Ready For Deployment      Partially Unfolded Stainless Steel Boom Ready For Deployment



Stainless Steel Boom In Deployed Position

**SPILL-TAIN™ FIREBOOM SPECIFICATIONS**

Boom Section, Tow Bridle and Anchor Float materials: Type 316 stainless steel panels and hinges, closed cell foam glass flotation, stainless steel cable.

Set of 2 (two) Tow Bridles required per assembled string of boom.

MODEL 23-58	23-INCH, DEPLOYED
Length	7.5 ft. (2.286 m)*
Width	23 in. (58.4 cm)
Height	23 in. (58.4 cm)
Freeboard	11.5 in. (29.2 cm)
Weight	61 lb. (27.67 Kg)
MODEL 23-58	23-INCH, FOLDED
Storage Volume	1.16 ft <sup>3</sup> / ft. (0.0929 m <sup>3</sup> / m)

\*Longer segments available upon request.

**ACCESSORIES**

External Tension Cable	5/8 in. (1.59 cm) for sweeps wider than 100 ft. (30.5 m). Available in galvanized and stainless steel.
Anchor Float	Use at 75-ft (22.86 m) intervals for anchoring in a fixed location. Provided with attachment points for Boom's tension cable or member.
Sea Anchor floating, self-deploying	Type 316 stainless steel, polyester cloth, foam glass

· We reserve the right to alter the specifications of all equipment without prior notice.

Distributed by:



Manufactured by:



**SPILL-TAIN™ Division**  
**MCD Technologies Inc.**  
 2515 South Tacoma Way . Tacoma, WA 98409  
 Tel: +1.253.476.0968 . Fax: +1.253.476.0974  
 info@spill-tain.com

# More **Spill-Tain™** Burns And Tows



1996- Direct Competition Between Spill-Tain™ and American Marine Fire Booms

**On November 28, 1995, Spill-Tain™ and American Marine fire booms competed in two burn tests** held at the Washington State Fire Training Academy in North Bend. The competition was sponsored by MSRC, assisted by Clean Sound Cooperative and the 13<sup>th</sup> U.S. Coast Guard District.

More than 90 attendees from government and oil spill response organizations world wide witnessed the competition.

As seen in the top photo, burns took place with booms positioned in the same tank. During the second burn American Marine's boom failed. The neoprene cover had been destroyed and the boom was leaking burning oil. Subsequently this boom went to a hazardous waste land fill.

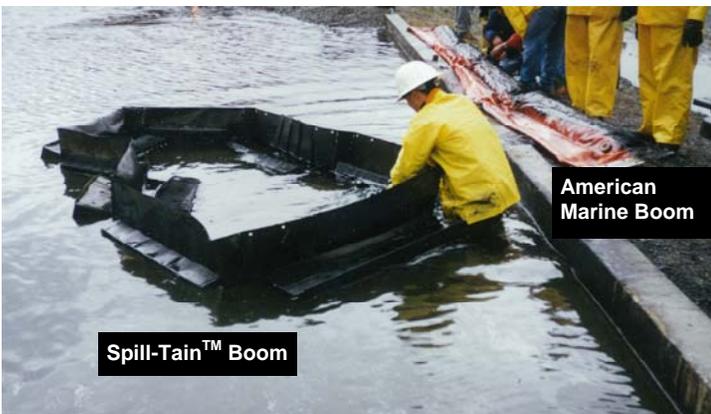
After completing the two burns, Spill-Tain™ boom was oven-cleaned at 700° F. Clean Sound Cooperative then tow tested it in Puget Sound waters off Edmonds, WA.



Spill-Tain™ Stainless Steel Fire Boom



American Marine Fire Boom



Post-Burn: Spill-Tain™ and American Marine Fire Booms

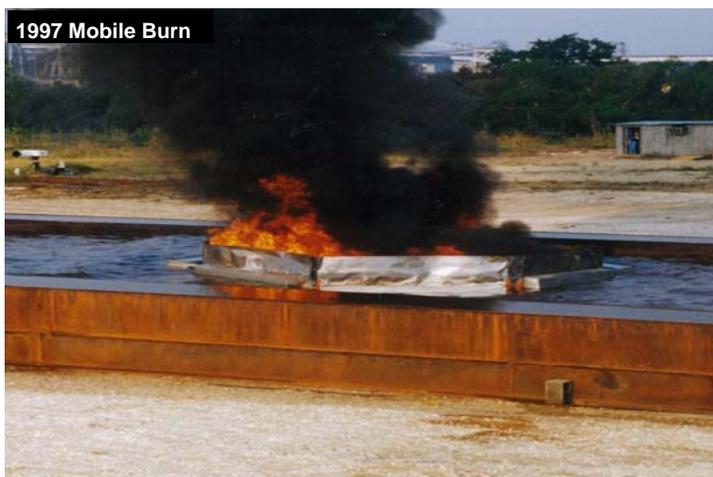


Spill-Tain™ Post-Burn Tow Test:

## Burns And Tows: Mobile And OHMSETT 1996 To 1998



In 1996 Spill-Tain™ fire boom was tow tested at OHMSETT, where it performed very well in oil collecting and retention tests. During these tests it set the facility record for stability and structural integrity by attaining 6 knots, the maximum speed of the facility.



The boom then survived a series of 3 one-hour burns in working waves at the 1997 tests in Mobile, Alabama. Other booms survival rates were so poor that the sponsoring personnel decided that the 1997 burns would serve only to establish criteria for the 1998 series. The 1998 burns were also to be open to more fire boom manufacturers.

Due to restricted movement in the 1997 burn test tank, one boom panel suffered mechanical damage. Minor repairs and a few changes indicated by the three burns were made.

### References

1. Walz, M.A., "Second Phase Evaluation of a Protocol for Testing a Fire Resistant Oil Spill Containment Boom," CG-D-15-99. USCG Research and Development Center, Groton, CT, 1999.
2. DeVitis, D., Nolan, K., Schmidt, W., "Test and Evaluation of Four Fire Resistant Booms at OHMSETT," CG-D-25-99. USCG Research and Development Center, Groton, CT, 1999.

\*\*Other documents available upon request.



In 1998 this already 3-time burned boom returned to Mobile for another series of three burns. Spill-Tain™ again survived all burns.

The Coast Guard then cleaned and sent it to OHMSETT for post-burn tow tests. The now 6-time burned boom performed as well as it had in the 1996 tow series, with the exception of the high speed stability test. The boom was connected at both ends to Coast Guard boom, which laid over at 4.5 knots, thus preventing Spill-Tain™ from repeating its prior 6 knot speed record.

The only boom to survive all 6 Mobile burns, as well as post-burn tow tests, the boom was again cleaned and returned to Tacoma, WA.

**As of 2010 this boom is still serviceable!**



Spill-Tain™ Div., MCD Technologies Inc.  
2515 South Tacoma Way  
Tacoma WA 98409, U.S.A.  
Tel: 1.253.476.0968  
Fax: 1.253.476.0974  
[info@spill-tain.com](mailto:info@spill-tain.com)