



U.S. Patent #5595457

The animation above illustrates the way in which our patented underflow systems achieve the most efficient capture of hydrocarbons and many other floating contaminants found flowing within storm sewers throughout the country and in our own neighborhoods.

Traditionally, there have been three methods of separating oil from water: costly chemicals, applied heat, and residence or retention time (allowing enough area of space for the oil to naturally separate from the water over time). SCM-FLOW® uses the retention time process by simply stacking the oil and water emulsion, facilitating natural separation.

With SCM-FLOW®, the oil becomes trapped behind the product, allowing the fresh water to pass through and move downstream. Our product is specifically designed for floatable contaminants, physically trapping 100% of the oil or floatable contaminants that come in contact with it.

Once the oil has been separated or stacked behind the SCM-FLOW®, acceptable industry practices can be utilized to remove the oil from the water, such as absorbent pads, cellulose loose absorbents, skimming, or oil mops.

SCM-FLOW® is not designed for and will not effect water soluble contaminants.

This design is easily included in new construction plans or retrofitted into an existing situation. Once the design criteria has been determined, we then prefabricate the management system to be installed. This plays a great deal in how our cost cutting measures work for you.

SCM-FLOW® has also been recognized and accepted as an Innovative Technology with the TCEQ.



Is the solution for Secondary Containment Needs

- Meets Federal Regulations for Secondary Containments defined in 40 CFR 112.
- O & M savings incurred by containing oil spills, reducing clean up costs by thousands of dollars.
- Tax Relief for Pollution Control Property through the TCEQ.
- All SCM-FLOW® Secondary Containments can be customized for specific containment needs.
- Easy to install.
- Reduces environmental liabilities.



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Distribution and Transmission

Secondary Containment



U.S. Patent 5595457 and Other Patents Pending



Secondary Containment Designs

Distribution and Small Substation Containments



There are two SCM-FLOW® designs for Distribution and Small Substation Containments.

- **Metal Vault Units-** These units are installed next to an existing transformer pad or a pad poured in place. They are designed to contain the capacity of oil for the equipment and utilizes a galvanized railing system on the concrete pad to direct the oil and water into the containment.



- **Moat Units—** These units are utilized on existing or new installations of transformers. They are installed surrounding the entire transformer pad. With new installations, the containment itself becomes the form reducing the cost of the construction and installation of the transformer pad.

Leaker Management Containments



SCM-FLOW® Leaker Management containments are designed to exceed the capacity of the low level alarms for a particular piece of equipment. They are best utilized for small reoccurring transformer leaks within a Substation.

The design of the Leaker Management containments include a concrete skirt that is poured around an existing piece of equipment and a SCM-FLOW® is placed at a specific discharge area. A galvanized metal curb is installed to direct the oil and water to the SCM-FLOW® capturing the oil for disposal and allowing rain water to discharge.

An added value of a Leaker Management containment is the safety benefit to Operations for the maintenance of the equipment. The concrete platform that is poured under the equipment provides a stable work environment for access to work on the equipment.



Catastrophic Containments

There are three main SCM-FLOW® Catastrophic Containments.

- **Berm Units -** Designed and installed to contain *all* dielectric fluids of the Substation. They utilize property adjacent to Substation to install diversion berms, directing water to the containment basin. Here the oil and water are separated, allowing rain water to flow while keeping oil contained within the basin.



- **Vault Units—** Basic manhole type construction with a water inlet and a SCM-FLOW® placed at the discharge, allowing water to discharge while containing the oil.

- **Wall Inserts—** This construction utilizes site specific drainage, placing a SCM-FLOW® into a concrete wall across a drainage ditch containing the oil and allowing storm water to flow.

All SCM-FLOW® Containments meets EPA Requirements set forth in 40 CFR 112.

