

RCI Technologies "Solutions"

Bringing you the latest news from RCI Technologies and the fuel industry



RCI Technologies "Solutions"

Issue No. 3 • Summer 2010

IN THIS ISSUE:

[Gulf Oil Spill Updates](#)

[Did You Know?](#)

[Upcoming Trade Shows](#)

[Tips for Stored Diesel Fuel](#)

[Recent Product Installations](#)

[See the FP in Action](#)

[Do You Really Need to Keep a Fuel Tank at 2 Microns?](#)

[Q&A with RCI Technologies](#)

[Seeking Distributors](#)

Gulf Oil Spill Updates

For updates, videos and live feeds of the Gulf Oil Spill, visit the following sites:

• [Official White House Deepwater BP Oil Spill page](#)

• [Official Deepwater Horizon Response page](#)

• [BP Global's Web site](#)

• [Associated Press coverage of the Gulf Oil Spill](#)

Did You Know?

• We now offer a PTCU model with a bag filter. [Contact us](#) for details.

→ Recent Product Installations

The photos below show recent installations of our products: one FP 3000, three FP 800's and one PTCU at **Merck Sharp & Dohme** in Las Piedras, Puerto Rico. The FP 3000 is connected to a 200,000-gallon tank that transfers fuel to a 30,000-gallon tank, then to the generators' and boilers' day tanks. The FP 800's are connected to the generators' day tanks. The PTCU is used to clean the day tanks. Thanks to RCI distributor Javier Rodriguez with [Caribbean Fuel Polishing](#) in Puerto Rico for sharing these photos.



→ See Videos of the FP in Action

Want to see the RCI Fuel Purifier in action? Visit www.fueltankscleaned.com, the Web site of RCI distributor **Mitchell Krieger Yacht Services** in Florida, to view some videos of the FP 1000 being used to clean fuel tanks on customers' boats and gen-set fuel tanks.



→ Do You Really Need to Keep a Fuel Tank at 2 Microns?

By Robert Randle

• This past spring, our Automatic Fuel Recirculating Systems (FRS) were certified by the state of California for seismic resistance.

• RCI distributor [LeBlanc & Theriot Equipment Co., Inc.](#) in Louisiana is featured in the PEI Journal, 3rd Quarter 2010. To read the article, [click here](#).

Come Meet Us at the Show!

• SEPT. 20-23:

[Pacific Oil Conference](#) (Reno, Nev.), Booth 309

• OCT. 6-8:

[PEI/NACS Show](#) (Atlanta, Ga.), Booth 960

• OCT. 7-11:

[U.S. Sailboat Show](#) (Annapolis, Md.), Tent B39

• OCT. 14-17:

[U.S. Powerboat Show](#) (Annapolis, Md.), Tent B39

• OCT. 28 to NOV. 1:

[Fort Lauderdale International Boat Show](#) (Fort Lauderdale, Fla.), Tent 561

Tips for Stored Diesel Fuel

While storage stability should not be a concern for most diesel fuel users, those who store diesel fuel for a prolonged period (i.e. one year or longer) can take steps to maintain fuel integrity:

1. Purchase clean, dry fuel from a reputable supplier, and keep the stored fuel cool and dry. The presence of free water encourages the corrosion of metal storage tanks and provides the medium for microbiological growth. [RCI's FP Fuel Purifiers](#) remove water

President, RCI Technologies

There are vendors trying to sell fuel recirculating systems claiming "seven stages of filtration" or "Let us clean your 30,000-gallon fuel tank to 2 microns," without any consideration for the end user. Do you realize how long you would have to run the system to maintain a 30,000-gallon fuel tank at 2 microns? And how many times would you have to change these 2-micron filters? If they can maintain your fuel tank at 2 microns, then there would be no need for your inline filters. It just doesn't wash!

With the [RCI Technologies Fuel Purifier](#) meeting and exceeding the "90 mesh strainer coalesce/separator requirements," we can design a system to any specifications, but would be negligent not to advise our customer of a potential problem with this design. Diesel equipment has multiple filters ranging in micron size to accommodate the contamination found in all fuels. Most primary filters are in the 10 to 20 microns size, sometimes as high as 30 microns. The secondary filter, or final filter, should be 2 to 10 microns, thus reducing the chances of filter clogging and excessive maintenance.

It would be cost-prohibitive to try to maintain a fuel tank at 2 microns when going to a higher-micron primary filter. Conventional filtration is designed to shut off the fuel flow as the filter clogs. Therefore, the potential problem of having multiple filters from 2 microns to 30/20/10 back to 2 microns would not be cost-effective, as the cost of filter replacement, down time and hazardous waste disposal fees constantly increase.

RCI Technologies' fuel purifiers will remove all the water and particulates to below 10 microns and require no replacement filters, cartridges or elements to clean, change or replace. Total maintenance is a simple purging. The sole function of our purifier is to remove water and particulates before they get to the conventional filtration. Here again, installing a 2-micron filter at the beginning of the fuel stream would cause excessive maintenance and down time changing the 2-micron filters.

We are proud to provide a total maintenance system that requires only a simple purging, providing years of quality fuel at minimal cost.



→ Q&A with RCI Technologies

Jaime R. De Los Santos Perez of CONSERVASA, S.A. (Dominican Republic), asks:

Q: How does the [Portable Tank Cleaning Unit \(PTCU\)](#) work on gasoline?

A: The unit's pump is explosion-proof and is designed to work on the following: gasoline, diesel, bio blends and kerosene. The purifier will work on all the above fuels. The PTCU is designed for use on diesel fuel, as well as biofuel blends. For use with gasoline, the PTCU's electrical cord must be replaced to meet local explosion-proof codes.

Q: To ensure the correct cleaning of the tank, do you have or recommend any additional device to use at the end of the hose?

A: We would suggest using a smaller diameter hose on the return end to act like a whip to stir up the sediment on the bottom of the tank. Remember, the purifier is NOT a garbage filter, and if you are going to pull up sludge and large particulates, then you must have a screen filter in front of it.

Q: Is it possible to add another hose or use a longer hose than the one coming with the unit?

A: Yes

and contaminants from fuel.

2. Add an appropriate stabilizer that contains an antioxidant, biocide and corrosion inhibitor. *RCI offers a complete line of Bell Performance fuel additives, as well as Safe Solutions tank breathers.*

3. Use a fuel quality management service to regularly test the fuel, and, as necessary, polish it - by filtration through portable filters - and add fresh stabilizer. This is common practice for nuclear power plants with backup diesel-powered generators. *RCI offers fuel test kits from Aviation Laboratories, as well as a variety of Portable Tank Cleaning Units.*

4. Install a dedicated fuel quality management system that automatically tests and purifies the fuel and injects fresh stabilizer. *RCI's Automatic Fuel Recirculating Systems (FRS) circulate and purify stored diesel fuel. An automatic injection system, for fuel additives, is available as an FRS option.*



A customer in Costa Rica using the PTCU

Have questions you'd like to share about RCI's products or fuel-related technical issues? E-mail us at: news@rcitechnologies.com with the subject, "Newsletter Q&A."

→ Join RCI as an Authorized Distributor

Are you interested in becoming a distributor for RCI Technologies? We are always looking for representation. Call us at (800) 868-2088 or send an e-mail to info@rcitechnologies.com.

RCI Technologies

"THE PERMANENT SOLUTION"

Made in the U.S.A.

www.rcitechnologies.com

(800) 868-2088 · (909) 305-1241