U.S. Department of Homeland Security

United States Coast Guard

USCGC VIGILANT (WMEC 617)
9235 Grouper Rd.
Cape Canaveral, FL 32920

Staff Symbol:
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1000
June 23, 2003

John MacDonald
Mike Dombrowsky
Environmental Manufacturing Solutions
7705 Progress Circle
Melbourne, FL 32904

Dear Sirs:

I am writing this letter to provide feedback to both your company and the Coast Guard Maintenance and Logistics Command Atlantic with regard to the effectiveness of your product "Blowout." Onboard USCGC VIGILANT, we recently employed this product in the flushing of our sewage system piping. The product was not only highly effective in cleaning four years' accumulation of deposits from the interior of the sewage system piping, but was instrumental in elimination of a severe clog in our sewage tank vent piping. The concentration of Blowout to water that was used was initially 1:2, and concentration was eventually increased to 1:1.

In addition to achieving effectiveness similar to that which would be expected of sulfamic acid or other similarly caustic compounds, the fact that the product is environmentally safe allowed for disposal of the Blowout and system effluent via sewer without further treatment. In addition, TCLP testing was conducted on the effluent upon conclusion of the flushing evolution to ensure no RCRA metals were present and that metal was not being removed from the system's Cu-Ni piping. No unacceptable levels of trace metals were found as a result of this testing. The environmental friendliness of your product resulted in cost savings of approximately $1000 in waste disposal fees (quoted by a contractor as 80 cents per gallon, plus transport). In addition, the threat of personnel injury due to mishandling or spillage was reduced by the knowledge that exposure to Blowout would not cause harm that could be expected following exposure to other commonly used cleaning agents.

I consider the completion of our sewage system cleaning to be an effective "prototype" use of your product for this application onboard U.S. Coast Guard cutters. A copy of this letter will be sent to U.S. Coast Guard Maintenance and Logistics Command Atlantic, and a representative from that command may contact you directly to obtain further information about your product.

Sincerely,

P. D. STUKUS
Lieutenant
U.S. Coast Guard

Copy: USCG MLC Atlantic (vr-1)

BEFORE **AFTER**

Total elapsed time 90 minutes on 2" dia. pipe

Discharge Analysis	**(ND = Not Detected)**
Copper.....ND	Chromium.....ND
Nickel..... ND	Silver.....ND
Lead..... ND	Selenium.....ND
Mercury...ND	Arsenic.....ND
Barium.....ND	Cadmium.....ND

U.S. Coast Guard Cutter VIGILANT- Lt. P.D. Stukus 06/23/03 ..."highly effective in cleaning 4 years accumulation of deposits from the interior of the sewage system piping"... "environmental friendliness of your product resulted in cost savings of $1000 in waste disposal fees"... "TCLD testing was conducted on the effluent...No unacceptable levels of trace (RCRA) metals were found as a result of this test"..."I consider the completion of our sewage system cleaning to be an effective prototype use of your product (Blowout) for this application onboard U.S. Coast Guard Cutters"... (The above are Direct Quotes)