

Application Case Study



LIQUID PROCESS FILTERS GRAVER TECHNOLOGIES 1-888-353-0303

www.gravertech.com

ACS-001

Offshore Water Treatment Chemicals

Application:	Production of water treatment chemicals for offshore application
Current Product Used:	Pall High Flow Ultipleat 4.5 micron 40 inch filter
Graver Product:	Graver Technologies PMC 1 micron 40 inch filter

Discussion:

The customer was seeking an alternative to the high priced Pall High Flow Ultipleat filters to reduce their ongoing costs. There were instances where small batches of chemicals needed to be filtered which did not utilize the full on-stream life of the High Flow filters. In addition they had some concern over the weight of the spent High Flow filters and the safety of their operators who had to handle these products.

The customer initially tried a competitive High Flow retrofit, but did not achieve the desired removal efficiency. They then agreed to replace the special High Flow housing with a standard cartridge filter housing which would accept five 40" filters. This selection was made to assure that the effective filtration surface area was equal or greater than the single High Flow filter.

Results

- The PMC 1 micron filters in a 5-around 40" configuration achieved longer on-stream life than the Pall High Flow filter.
- The PMC 1 micron filters achieved the desired filtration quality.
- Safety risk to the operators was eliminated since the standard size cartridges were much lighter weight.
- The customer gained a new flexibility to achieve additional savings in filter costs by "plugging" one or more of the housing ports for smaller batches (use 1, 2 or 3 cartridges instead of 5).
- Substantial annual cost savings were realized.
- Anticipated usage is 390 x 40 inch filters per year.