NATURAL GAS PLANT AMINE UNIT – BAGS TO V-MAX
CASE STUDY

A Louisiana Gas Plant was having issues cleaning their amines to an acceptable level. Upon having quality discussions about the issues they were having we learned that in addition to their Amines being contaminated, they were utilizing bag filters and they were changing them weekly.

The plant had an 8 bag pre-filter feeding to a carbon bed and a 4 bag after carbon filter unit. After opening the pre-filter to measure the vessel, we found quite a bit of catalyst carryover from the reactor bed. When examining the post carbon filter we found that the amines had actually darkened from carbon carryover.

The plant acknowledged that they were changing out their pre filters every 4-7 days and the after filters they were changing out every 7-14 days. We introduced the Plant Manager to our V-MAX® elements and discussed the bypass issues that the plant was experiencing with bag filters. To be able to supply the level of service we needed to supply at the plant level there had to be a Corporate Master Service Agreement or MSA in place.

The plant signed a core loan agreement (find out more about those agreements from a Pentair representative!) and Pentair upgraded the eight existing bag pre-filters.
The operations manager was skeptical at first, questioning that this upgrade was going to give him any value based on what he was presently using. After just 4 days, the operations manager reached out to Pentair to inform us that he was extremely pleased with the performance of our upgrade. He was getting at least 3 times the life compared to the bags that he was using.

More importantly, the amines had never been cleaner since he took over this plant two years ago. He wanted to proceed with the carbon after filters to assure even cleaner amines.

6 Months after the upgrade the operations manager has requested even tighter media from Pentair to clean up the amines even more.

PICTURE ABOVE: Chesapeake Converse Rich Amines Pre-Filter after Pentair V-MAX Upgrade.