

Cyclopentane Cogen Heat Exchange System

Pump Seal Protection in Transmission Line Alliance Pipeline, White Court, Canada, 2013—Current

Problem:

Black Powder contamination occurs from the corrosion and erosion of the piping system. This results in the premature wear of the seals and other essential system components.

Solution:

Black Powder Solutions was contacted to design two Black Powder Magnetic Separators for this new system. Alliance Pipelines has employed BPS technology with success over the last four years in other Alliance Pipeline cogen systems.

Results:

BPS efficiently removed Black Powder from the pentane thereby reducing wear on the pump seals and system components by this abrasive contamination if left in the system.

Conclusion:

Randy Berggren of Alliance Pipeline suggests the installation of this BPS Separator will be very beneficial in saving the pump seals at a cost of \$20, 000 each, as well as increasing uptime.

Recommendation:

Implement a BPS Magnetic Separator before pumps, seals and valves to decrease downtime and maintenance costs, as well as increase system functionality and product quality.

