

CASE STUDY (SAH) and (VTS)

Oil and Gas

Kingdom of Saudi Arabia, Khafji

AL-Khafji Joint Operations (KJO) Upgrade HVAC and Installation of Safety System for Sour Gas Dispersion (Saudi Aramco & KNPC Joint Project)



THE PROBLEM:

An oil refinery spanning the border of Kuwait and Saudi Arabia, AL-Khafji Joint Operations (KJO), needed our help determining the best way to combat the extremely high levels of H_2S onsite. This project was a joint operation between Saudi Aramco and the Kuwait National Petroleum Company, which produces a high volume of petroleum. They were concerned about protecting their employees, who must shelter in place, in the case of an accidental toxic gas release and how to keep their sensitive electronics from corroding and causing unnecessary downtime and costly repairs.

THE SOLUTION:

PureAir determined two separate systems were needed to combat both of their problems:

- Side Access Housing (SAH) units
- V-Bank Transition Systems (VTS) units

Six of our SAH units were installed in different areas in the refinery to protect their mission critical electronics from the corrosive gasses onsite. To protect their staff in the event of an accident, five VTS filled with PureAir 12 and Sulphasorb Fe™ chemical adsorbent media, designed to limit corrosive gases in the environment, were also installed throughout the refinery. Since our systems and media were installed, H_2S levels are reported to be undetectable.



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