

CASE STUDY

Side Access Housing and V-Bank Transition System

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 H₂S onsite. This project was a joint operation between Saudi Aramco and the Kuwait National Petroleum Company, which produces a high volume of petroleum. They needed to protect employees sheltering in place during an accidental toxic gas release and prevent corrosion of sensitive electronics that could lead to downtime events and costly repairs.

THE SOLUTION

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

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

Six of our SAH systems were installed in different areas in the refinery to protect their critical electronics from the corrosive gases onsite. To protect their staff in the event of an accident, five VTS systems filled with PureAir 12 and Sulphasorb Fe™ chemisorbant media, designed to limit corrosive gases in the environment, were also installed throughout the refinery.

Since PureAir's systems and media were installed, H₂S levels are reported to be undetectable.

