

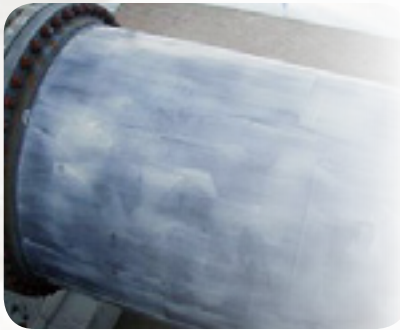


CARBONSEAL™ INDUSTRIAL COMPOSITE SYSTEMS STEEL PIPE PROJECT



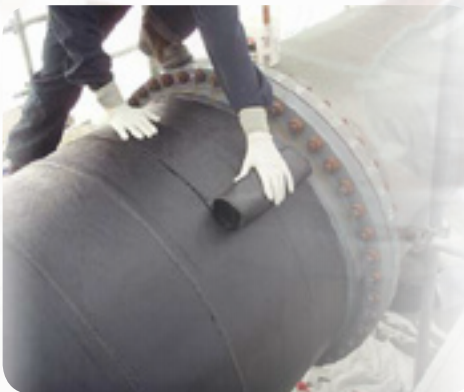
STEEL PROCESS VAPOR LINE REPAIR ALASKA

An ASTM A106 – Grade B steel vapor line header at this oil refinery had become corroded both internally and externally, resulting in through holes and a decrease in hoop strength throughout the entire structure.



PROBLEM

- » Corrosion led to the loss of steel, causing through holes in the 20" pipe
- » The header was connected to a 42" diameter pipe, also needing reinforcement
- » The repair needed to be completed while insuring the internal pipe process did not ingress oxygen, in order to avoid possible combustion



INSTALLATION

- » Surface was cleaned to white metal using mechanical hand tools
- » A chemical-resistant base coat was used due to constant chemical exposure
- » After patching and priming, carbon fiber was saturated and wrapped around the exterior
- » A chemical resistant top coat was applied, protecting the system



CONCLUSION

- » HJ3's CarbonSeal™ system saved the client more than \$300,000 over replacement
- » No hot work permits or welding were required, and the pipe was repaired with no downtime!

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