

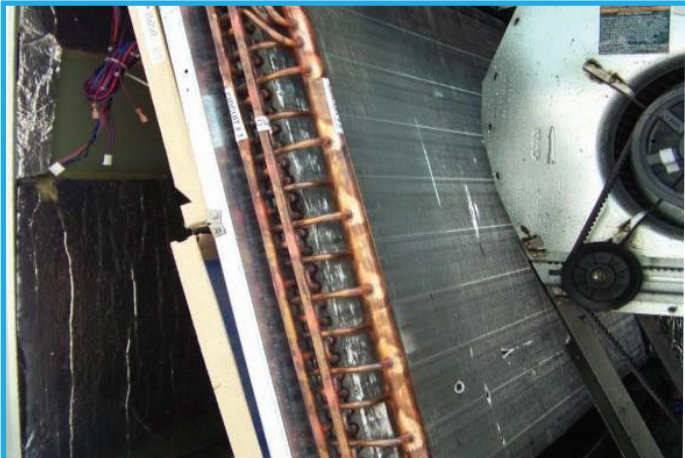
MICROGUARD[®]

HVAC

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CASE STUDY: Waste Water Treatment Plant, Virginia



MicroGuard[®] coated coil after cleaning; copper is shiny and undamaged.



MicroGuard[®] coated cabinet after 3 years – clean and shiny with no corrosion.

Hydrogen Sulfide is an extremely corrosive acid released from the waste water treatment process. It primarily attacks the copper tubing and piping of an HVAC unit, causing rapid deterioration of the copper that leads to leaks, particularly at the solder joints. Hydrogen sulfide coats the metals completely within a few months of installation. Damaged units may require replacement in as little as 2 -3 years.

Situation: Energy Guard applied MicroGuard AD35 to the aluminum fins, copper headers, tubes, and piping and MicroGuard AD95 to the exterior cabinets of several 15 ton package units and 5 ton condensing units.

Results: After 15 months, the units were inspected. Hydrogen sulfide had heavily coat the surface of the copper headers and piping. The headers and piping were cleaned with a mild degreaser and hot water. The hydrogen sulfide washed away, leaving shiny, protected copper headers and tubing beneath the MicroGuard coating. No damage was evident.