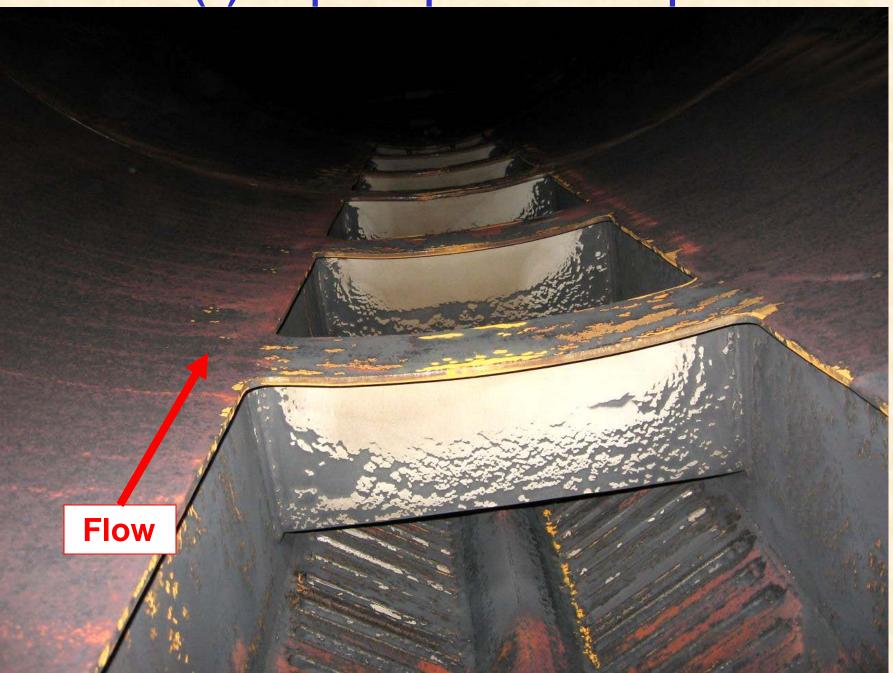
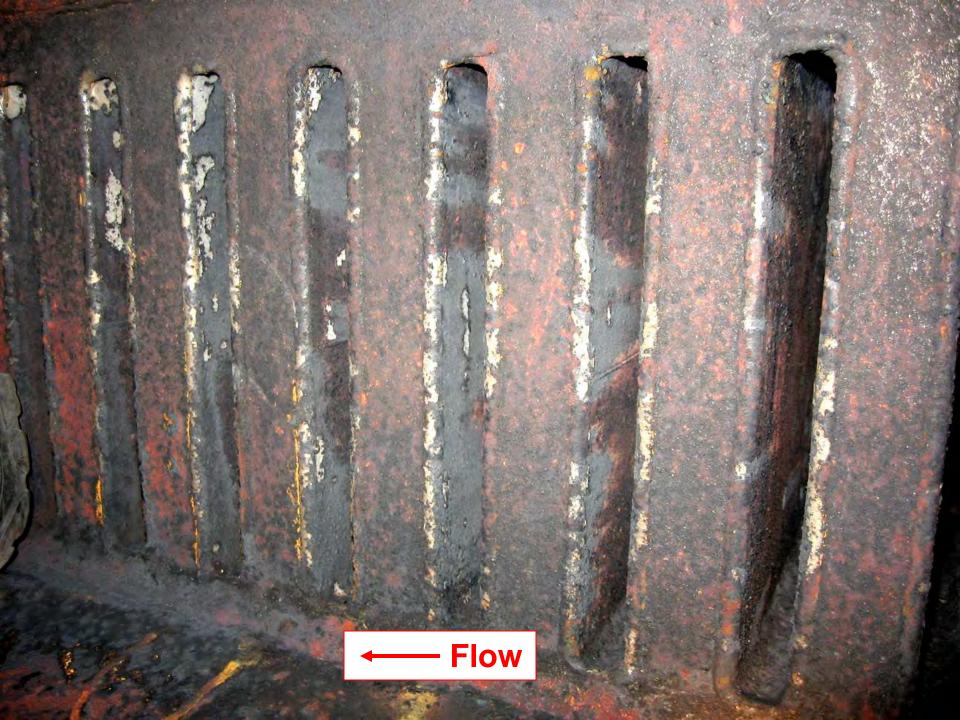
Comanche 3 Air Cooled Condenser Initial post-operational Inspection

3rd Annual ACC User's Group * September 19-20, 2011 Andrew Howell * Xcel Energy

Reason(s) for post-operational inspections







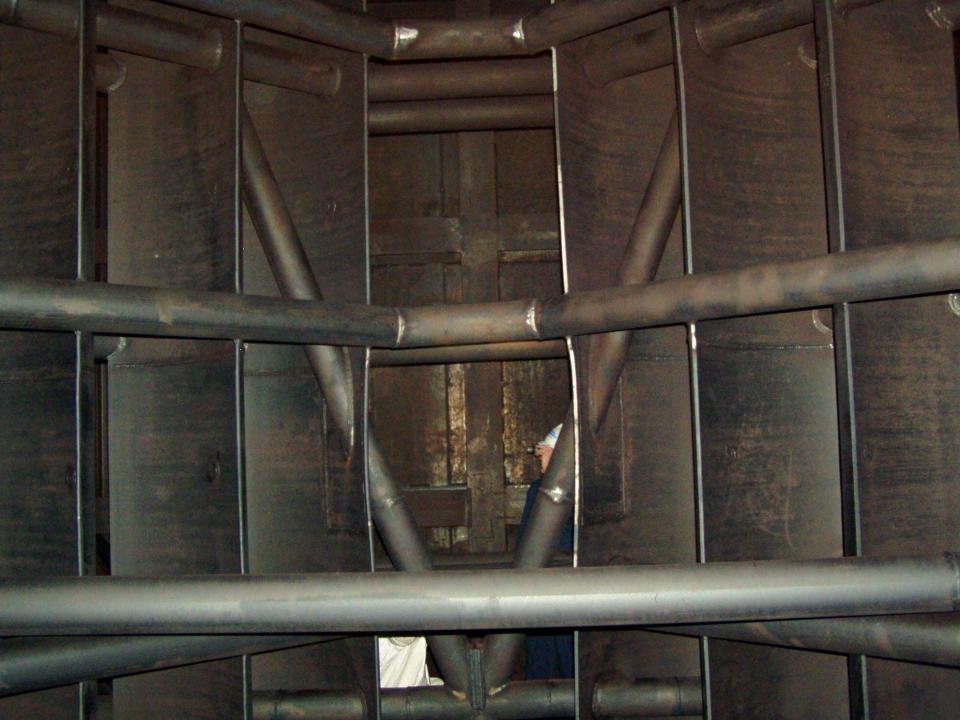
Units with air-cooled condensers must address corrosion product release from the large carbon steel surface area.

Consequences of particulate transport







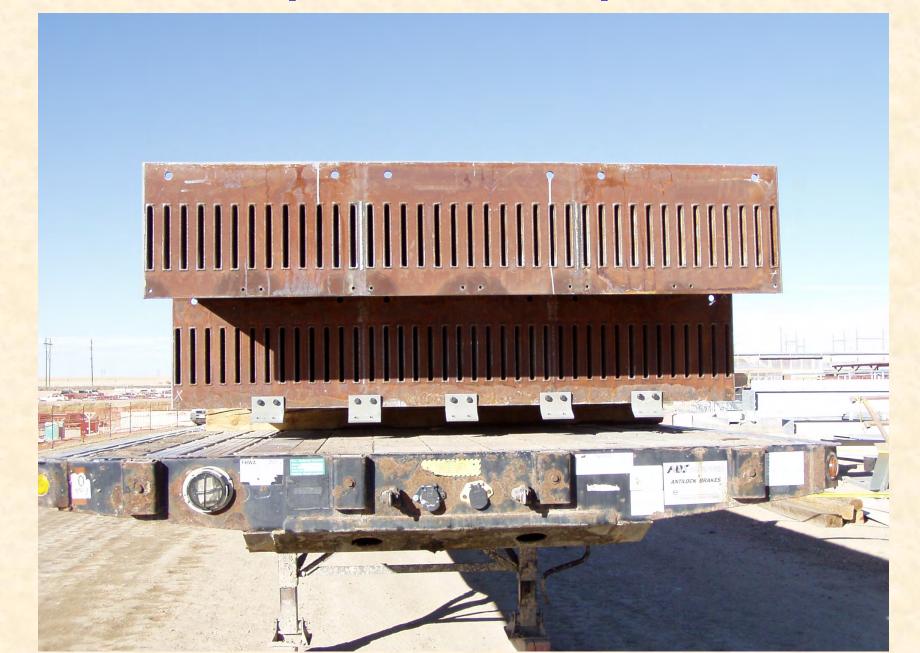








Pre-Operational Inspection













Post-Operational Inspection





Row 1





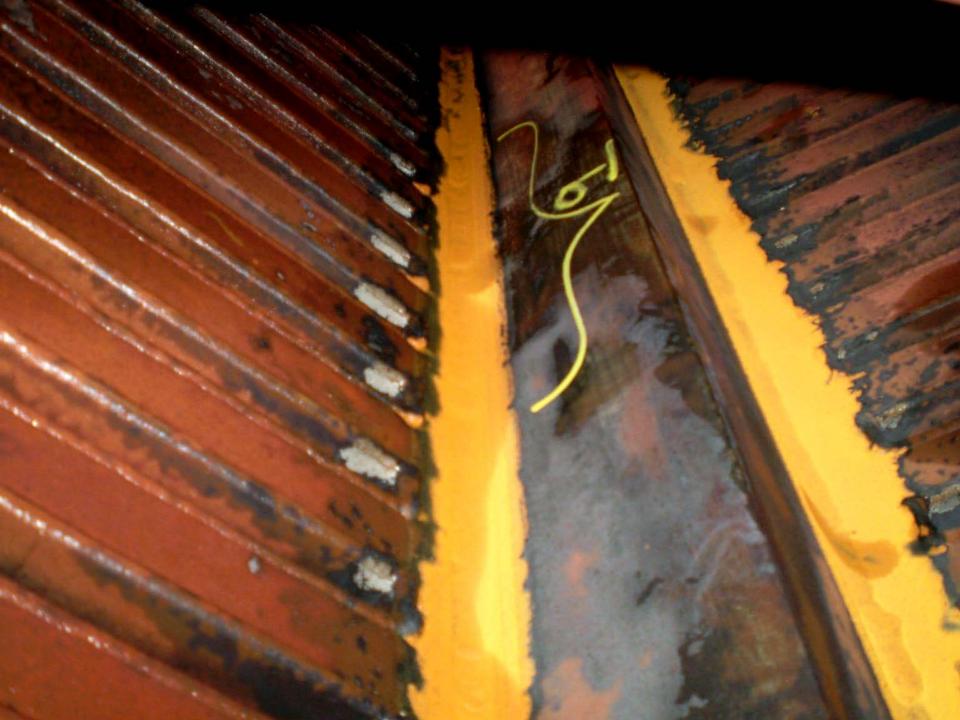














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DHACI Rating: Upper Duct #1 3 (on a scale of 1 to 5)

Row 2











DHACI Rating: Upper Duct #2 3 (on a scale of 1 to 5)

Main Exhaust Duct





















DHACI Rating: Main Exhaust Duct B (on a scale of A to C)

ACC / WCC Interface







(a) Constraint States of Society (Sector Sector) (Sector) (Sect

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Conclusions regarding steam cycle pH control in air-cooled condensers

Corrosion is present at pH 9.6 – 9.8 with ammonia feed.

Alternative pH control agents (e.g. amines) may be preferred to minimize corrosion, where applicable.