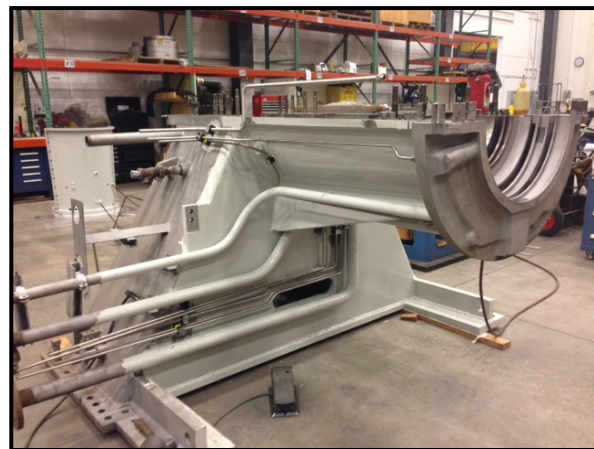


EMERGENCY RBSA EXPANDER REPAIR

One of our RMS customers contacted us on a Saturday morning with a problem pertaining to their FCC Expander. They were experiencing high vibration levels and were in the process of shutting down their unit. RMS was asked to consult on the potential root causes of the vibration issue and determine what repair options were viable within the short 14 day window. We quickly assembled an engineering / project team and put a repair scope proposal together within two hours of receiving the call.

Monday morning the rotor bearing sled assembly arrived at the RMS shop.

The sled was visually inspected and disassembled while verifying all critical dimensions.



It was discovered that the blade tips had rubbed the catalyst deposits on the shroud. This appeared to be the most likely cause of the vibration problems. The customer's spare rotor assembly refurbishment was not completed, so a decision was made to keep the rotor completely assembled. The complete rotor assembly was cleaned, inspected, re-balanced and prepped for re-assembly.

While processing the rotor assembly, RMS cleaned and prepped all the critical mating surfaces. The pedestal bearing housing was also cleaned and painted.

The seal piping / tubing and instrument tubing was found to be in poor condition and required replacement.

All of the equipment health monitoring instruments were replaced and tested to ensure proper operation.

RMS also fabricated and installed new insulation blankets.

Including the extra scope of work we were able to complete the 14 day promised delivery one day ahead of schedule.

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