

SUCCESS STORY

vibro-meter

MMS UPGRADE AT SMARR ENERGY FACILITY IN USA

BACKGROUND

Upgrade machine protection of legacy MMS system to VM600Mk2.

Increase channel count with installation of additional TQ900 probes/signal chains.

In the future, add condition monitoring functionality with remote condition monitoring of entire fleet.

SOLUTION

This facility only had accelerometers for bearing vibration protection and dynamic pressure sensors for humming protection.

We supported with the selection of relative vibration sensors and mounting bracket design to add relative vibration measurements for balancing and alignment.



New junction boxes were also provided as well as IPC707 signal conditioners and GSI 127 galvanic separators for the bearing vibration and humming channels.

We supported the cabinet wiring and performed system commissioning for the first unit.

The system was commissioned in April following a hot gas path major outage that included the removal and replacement of the rotor.

Following the outage, we provided on-site support during the initial startup including data collection with VibroSight to allow for comparison between the XMV16 and the MPC4Mk2 cards.



The upgrade will take place on the second unit next year following a similar major outage.

BENEFIT

Supporting the utility directly with hardware and services for turnkey solution.