

Shared Learning

Electricity | Turbine vibration monitoring fault | EGL TOPP1 site

What happened?

Following station start up the plant operator noted that there was no indication from one of the turbine vibration transmitters.

Investigation of this fault revealed a wiring defect at the turbine vibration element that prevented the signal from being transmitted to the station control system.

No system alarms alerted the station operator to the abnormal operating condition.

What did we learn?

HMI alarms and high level trips are set up in the station control, system to protect the turbine in the case of a high turbine vibration event.

The control system / SCADA does not include any low level alarms or warnings to alert the operator if vibration levels are lower than an expected normal value during operation.

This condition may exist for other HMI indications and alarms on the station.

