IS/18
dated --.--.2018

Information Message on PRANA Predictive Analytics and Remote Monitoring System

PRANA Predictive Analytics and Remote Monitoring System detected deviation of steam turbine technical condition in the parameter “Temperature of turbine rear bearing babbit” (10MAD02CT101) (Fig. 1).

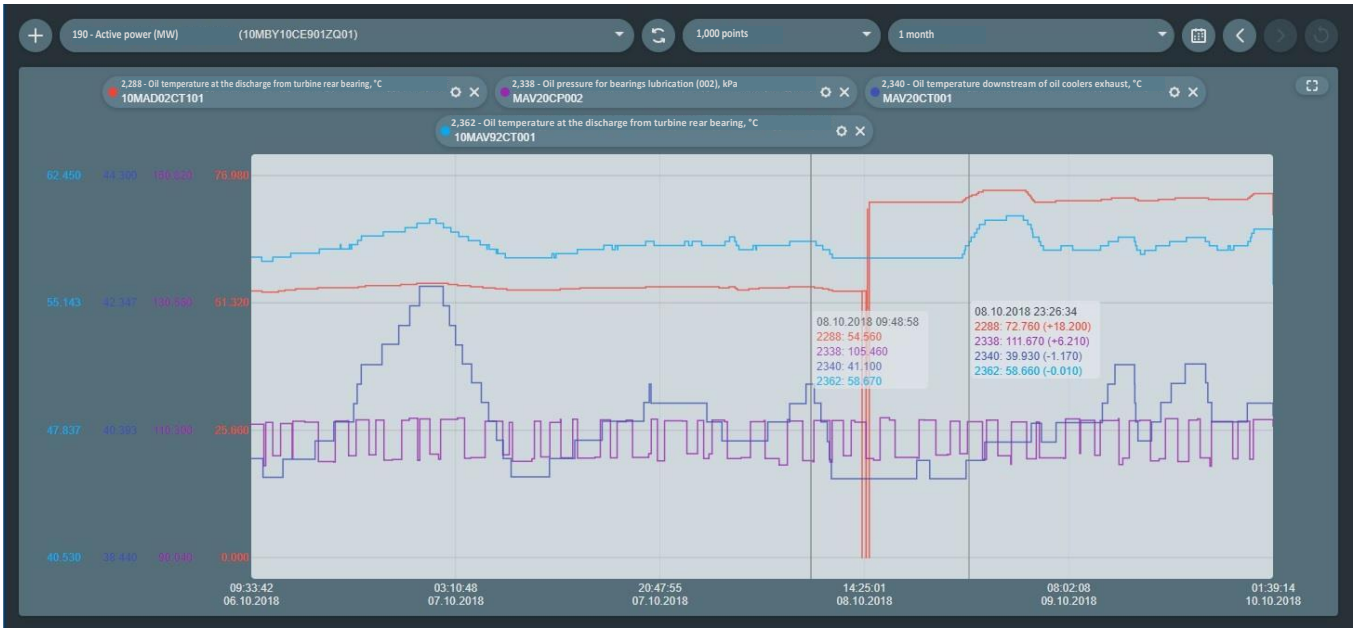

Fig. 1 Temperature of turbine rear bearing babbit.

On --.--.2018, changes in the temperature of turbine rear bearing babbit (10MAD02CT101) uncommon for steam turbine operation were observed, which did not correlate to the rest of steam turbine operation parameters. On --.--.2018, the dispatcher of the Situational Center notified site personnel about the deviation in parameter readings and, as a feedback, received a response about the repair activities on the specified sensor.

After the failure of control instrumentation and subsequent stabilization of the readings, the temperature of turbine rear bearing babbit reached more than 70 °C. According to process signaling chart, pre-alarm value is 70 °C; till now, the parameter exceeds the setpoint value.

By the nature of the parameter change, probable cause of the deviation occurred may be an increased measuring channel error (Fig. 2).

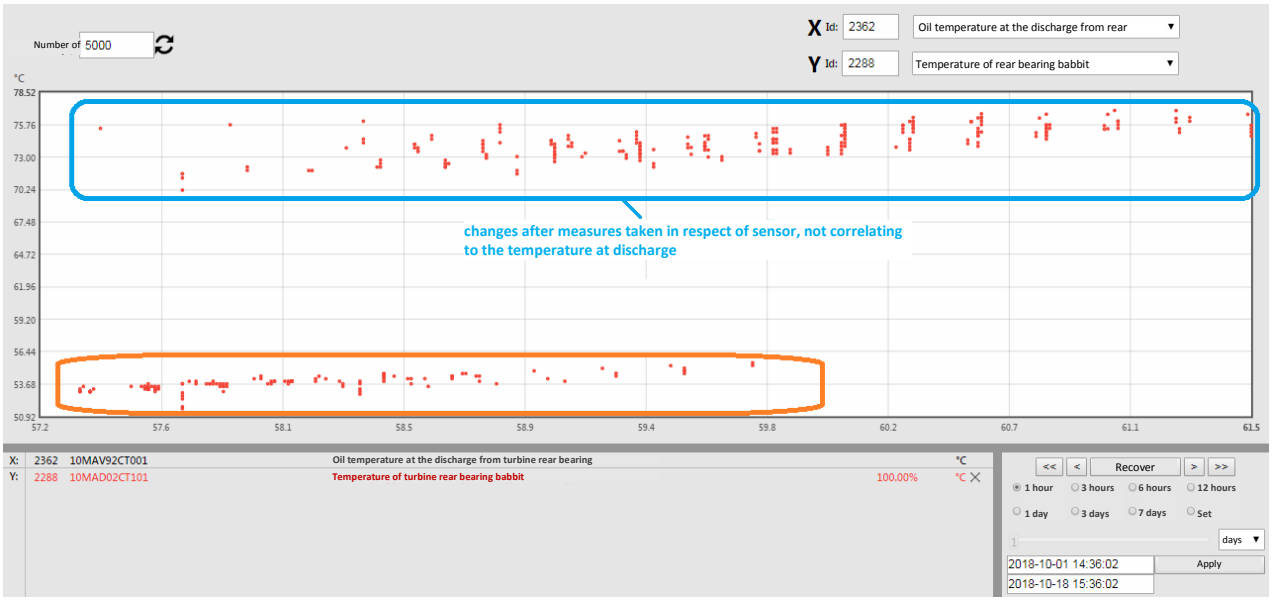

Fig. 2. Temperature of turbine rear bearing babbit and oil temperature at discharge.

It is recommended to:

1. Check communication lines from the sensor to the software/hardware modules.
2. Pull clamp connections of communicating line of the sensor.
3. Check the temperature sensor operability (according to the calibration chart).
4. Calibrate temperature measurement channel.
5. Report on actions taken to the Situational Center.

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