

1 Q. Reference: Gas Turbine Failure Analysis - Final Report, January 11, 2017, Alba Power
2 Ltd. Report, page 10. Please provide the current alarm levels and Hydro's opinion
3 on setting those levels consistent with Alba Power's observation that the observed
4 step change in temperature spreads (20°C) "is considered significant".

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6 A. Hydro's current exhaust gas temperature (EGT) spread deviation settings are as
7 follows:

8 Alarm: 40°C

9 Shutdown: 50°C

10 Trip: 55°C

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12 The settings were revised from the original equipment manufacturer settings to
13 these more stringent settings after the failure. EGT spread deviation during
14 operation is typically in the range of 25°C to 35°C, thus a change of 20°C is
15 significant and will result in an alarm as new EGT spread would be 25°C to 35°C plus
16 20°C and therefore the unit would pass into the alarm zone. Hydro staffs its gas
17 turbines with an operator when running. Operator instructions for action upon an
18 EGT alarm is immediate shut down of the unit.