No action if nacelle temp is actually high

Does this solve the problem?

1] Yes
2] No
3] I don't know

- Explanation

If the nacelle temp is actuallyhigh, leave the turbine to restart on its own. A good indication that the alarm is legitimate is if neighbouring turbines have the same alarm.

102 - Nacelle temp. high - NM72,NM82,V82 Mk1-5

Check the parameters for this alarm

Does this solve the problem?

1] Yes
2] No
3] I don't know

- Explanation

If the factory parameters are known, check the temperature parameters in the TAC controller to verify they are correct. If the correct parameters are unknown for your particular turbine type, reference the turbine specific "Stop & Reset Parameters". Alternatively a "Different from Factory Parameter List can be taken from Vestas Online Business (VOB) where the current and factory settings can be viewed at the same time.

Different from Factory Parameter List:

Menu	Line	Description	Present setting
191	1	102 Nacelle temp. high Stop function	10000000
191	2	102 Nacelle temp. high Reset function	11
191	3	102 Nacelle temp. high Alarm time	
191	4	102 Nacelle temp. high Alarm set-point	
191	5	102 Nacelle temp. high Reset time [sec]	
191	6	102 Nacelle temp. high Reset set-point	
191	7	102 Nacelle temp. high Repeated reset times [number]	
191	8	102 Nacelle temp. high Repeated reset time [minutes]	

102 - Nacelle temp. high - NM72,NM82,V82 Mk1-5

Replace the Pt100

Does this solve the problem?

1] Yes
2] No
3] I don't know

- Explanation

Check the Pt100 temperature sensor. Use the resistance chart to verify your readings.

If the temp is -40°C, you should troubleshoot a line to line short.
If the temp is 200°C, you should troubleshoot an open.

Perform a pull test on the wires to ensure any opens are not due to loose connections.

Pt100 resistance/temp chart Doc: 0039-6203

Replace nacelle roof fan
Does this solve the problem?
1] Yes
2] No
3] I don't know

- Explanation

If the turbine is equipped with a nacelle roof fan, check the function of the fan.

To test the fan in the turbine controller:
– <SERVICE MENU>
– <MANUAL TEST>
– <START/STOP NACELLE FAN 2>
– <ENTER> to toggle fan on and off
⊗ If the fan is running backwards air is being sucked into the nacelle instead of blown out the nacelle.
⊗ If the fan is running backwards swap any two of the three wires on the X10 terminal strip.

If the fan is found to be defective, replace the fan. Use document 0041-0901 "Nacelle Cooling Fan Install – V82 1.65MW" for reference.