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Technical bulletin

Interpreting the BPDnoise graph

This applies to all thermal 2 heads on all device platforms.

Background

Use the `BPDnoise.spt` script when you are troubleshooting banding problems. It helps you determine if there is noise in the beam-pointing driver (bpd) system.

Interpreting the graph

The intensity of the power read by the beam positioning sensors affects the results of `BPDnoise.spt`. The scale of the graph is determined by the intensity of the power read by the beam positioning sensors. In some cases, the intensity is relatively low and in others it is high.

When `BPDnoise.spt` is run with lower intensity, the resulting graph has a different scale. *This changes how you analyze the graph.* Because a graph appears noisy does not mean that it is a bad result; you need to consider the percentage of variation in the higher current line, as well as the scale on the left side of the graph.

For examples of graphs produced by high- and low-intensity power, see the sample graphs on pages 3, 4, and 5.

- Sample graphs, high intensity: Figure 1: Good graph, high-intensity and Figure 2: Bad graph, high-intensity
- Sample graphs, low intensity: Figure 3: Good graph, low-intensity.

Tips

When interpreting this graph keep in mind:

- *Because a graph appears noisy does not mean that it is a bad result; you need to consider the percentage of variation in the higher current line, as well as the scale on the left side of the graph.*
- Ignore the noise in the 15 A line. This line always looks noisy because of the low values read by the bpd sensors. For examples, see Figure 1: Good graph, high-intensity and Figure 3: Good graph, low-intensity.
- At high current values, check that the variation in the line is less than 1%. Draw lines as shown in Figures 2 and 3 in order to check how much the line changes. For examples, see Figure 2: Bad graph, high-intensity and Figure 3: Good graph, low-intensity.

If you have questions, send your graph to your local product support specialist.

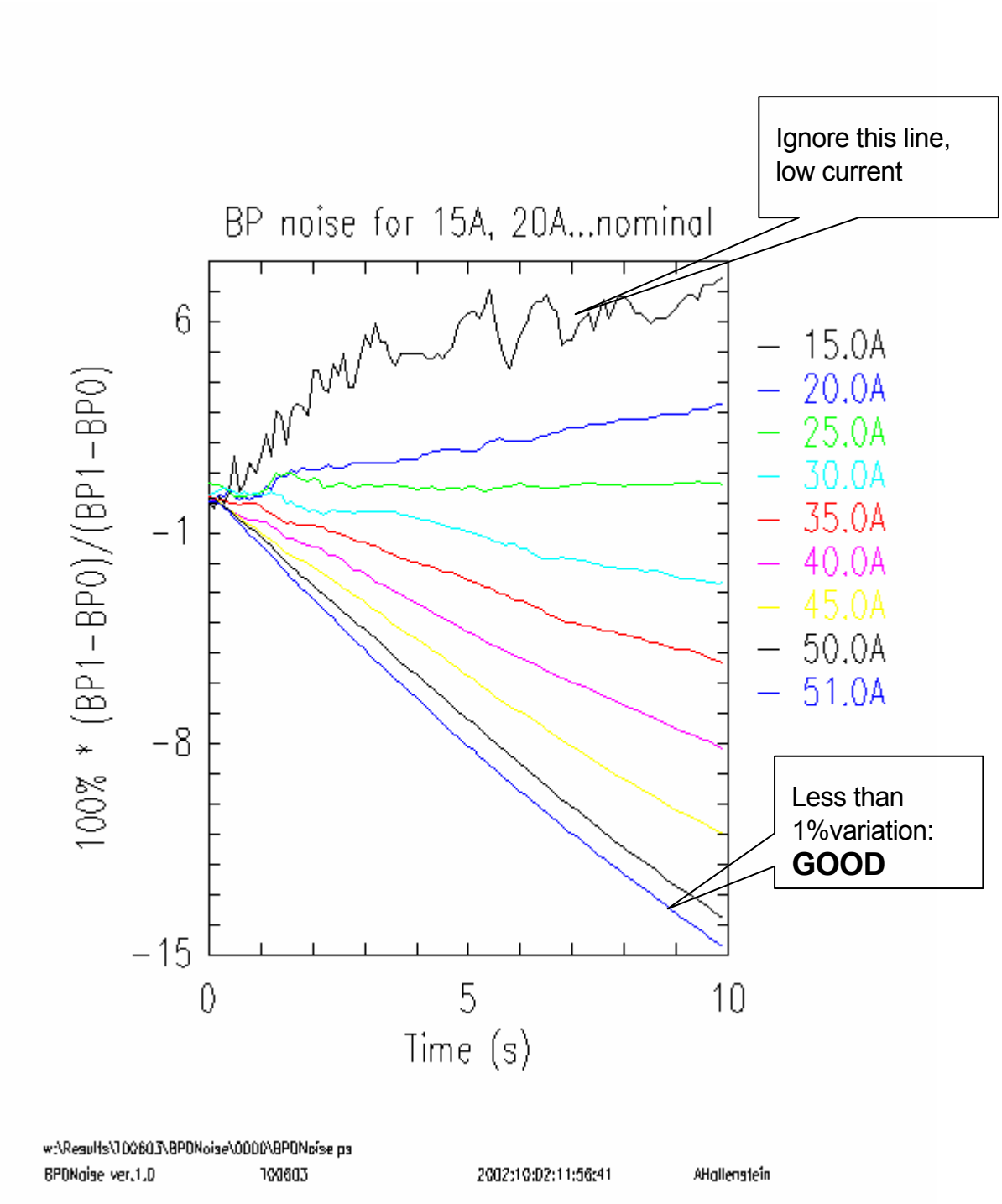


Figure 1: Good graph, high-intensity

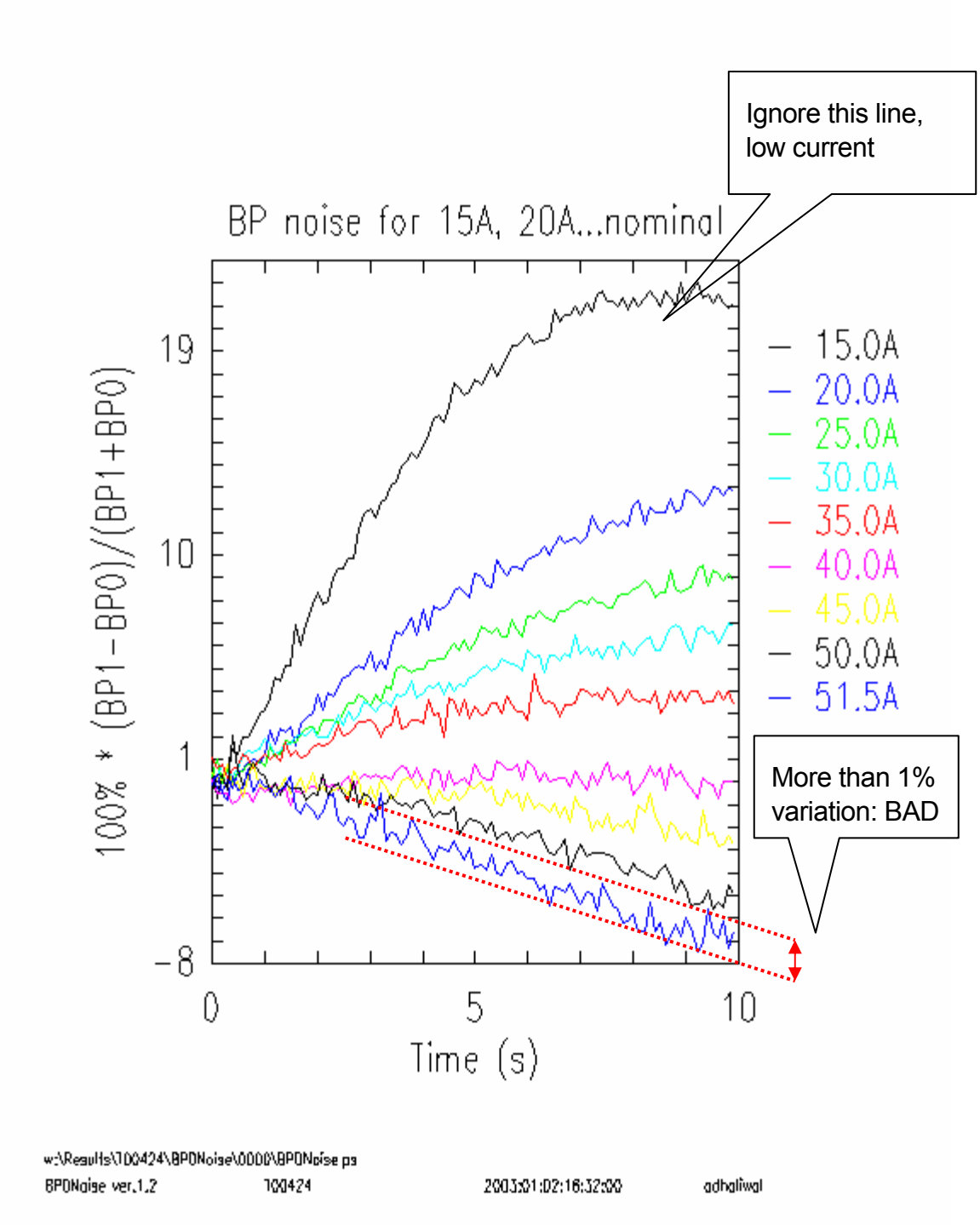


Figure 2: Bad graph, high-intensity

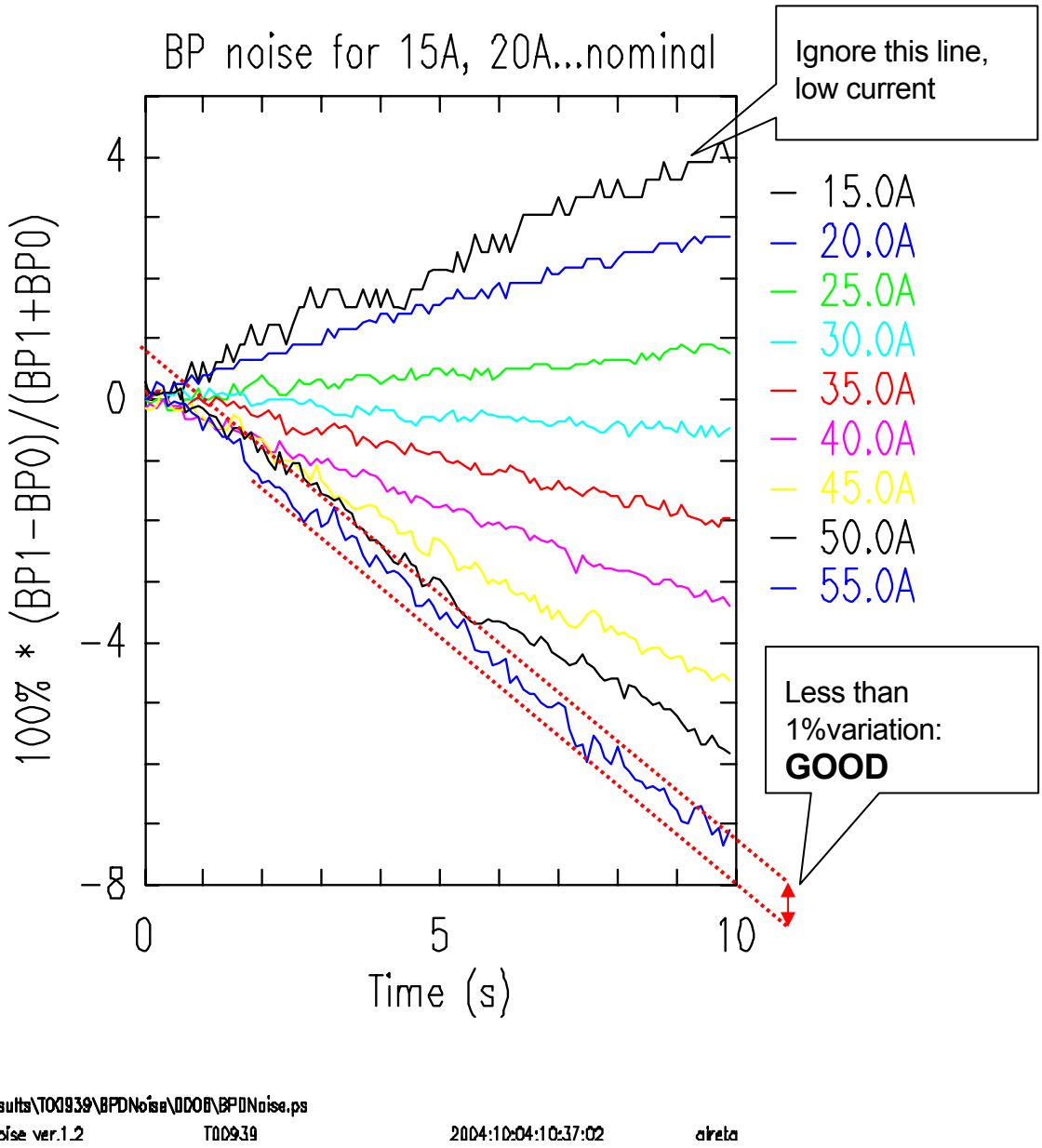


Figure 3: Good graph, low-intensity

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