

1 **Topsail – Replace Protection and Controls, Volume 2, Appendix 1, page 1 (\$200,000)**
2

3 **Q. What is the cause of the intermittent loss of speed signal?**
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5 A. There are three conditions that will cause the intermittent loss of speed signal alarm on
6 the Voest-Alpine electronic governor controller. These conditions are:
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- 8 • no computed speed value with 8% or greater gate opening;
- 9 • deviation in calculated speed value from measured system frequency greater
10 than a preset dead band; and,
- 11 • ramp down speed greater than a preset value.

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13 An analysis of the problem has determined that the Voest-Alpine electronic governor
14 controller is the source of the trouble and not the speed switch on the generator.