
1 Q. **System Protection**

2 Explain how Hydro mitigates “*galloping conductor*” issues.

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5 A. Hydro mitigates “galloping conductors” by the installation of mechanical galloping
6 control devices. There are three devices that Hydro has applied:

7 1. Air Flow Spoilers – These are helix shaped wire that are wrapped on the

8 conductors and are designed to maintain aerodynamic stability and

9 counteract the wind related phenomenon known as galloping;

10 2. Inter-Phase Spacers – These are designed to provide an in-span

11 mechanical coupling between phases, thus maintaining phase-to-phase

12 clearance and avoiding flashovers; and

13 3. Detuning Pendulums – In this case, a detuning weight is attached to the

14 line to interrupt the torsional movement of the wire, to prevent

15 galloping.