REC 9.1 Process Control

Instructions: Read REC 9.1 and complete this worksheet. Terms in bold may be found in the glossary.

1. Define process control.
2. Automated process control requires an intelligent link to take the place of human control between the \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.
3. Explain how step control works.
4. Explain how proportional control works.
5. What is the equation for proportional control? Identify the variables.
6. What is the equation for error?
7. What is a major disadvantage of a proportional control loop (P loop)?
8. In the graph on slide 23, explain what each curve means.

9. How can saturation be a problem?

10. What happens in a system with a kp value that is too low?