

GLG 110 – Homework #8
NUCLEAR POWER PLANT – 10 pts.

Make a sketch of a Pressurized Water Reactor. You may want to use the diagram in your book on page 500 to help you. You may also find a diagram at <http://www.nucleartourist.com/type/pwr.htm>. Color your sketch using colored pencils (no crayons or markers) and label each part of the system. Include arrows to show water direction. Under your sketch or on a separate piece of paper, explain the role of each of the 3 separate cooling systems including: reactor coolant system (primary), main steam system (secondary), and the condensate-feedwater system (tertiary). Tell which system is expected to have radioactivity. Tell which system can be re-claimed water. Attach this paper to the top of your sketch.

Rubric:

- Colored sketch, neat legible - 3
- All parts labeled – 2
- Arrows showing water motion – 1
- Description of 3 separate cooling systems – 4

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