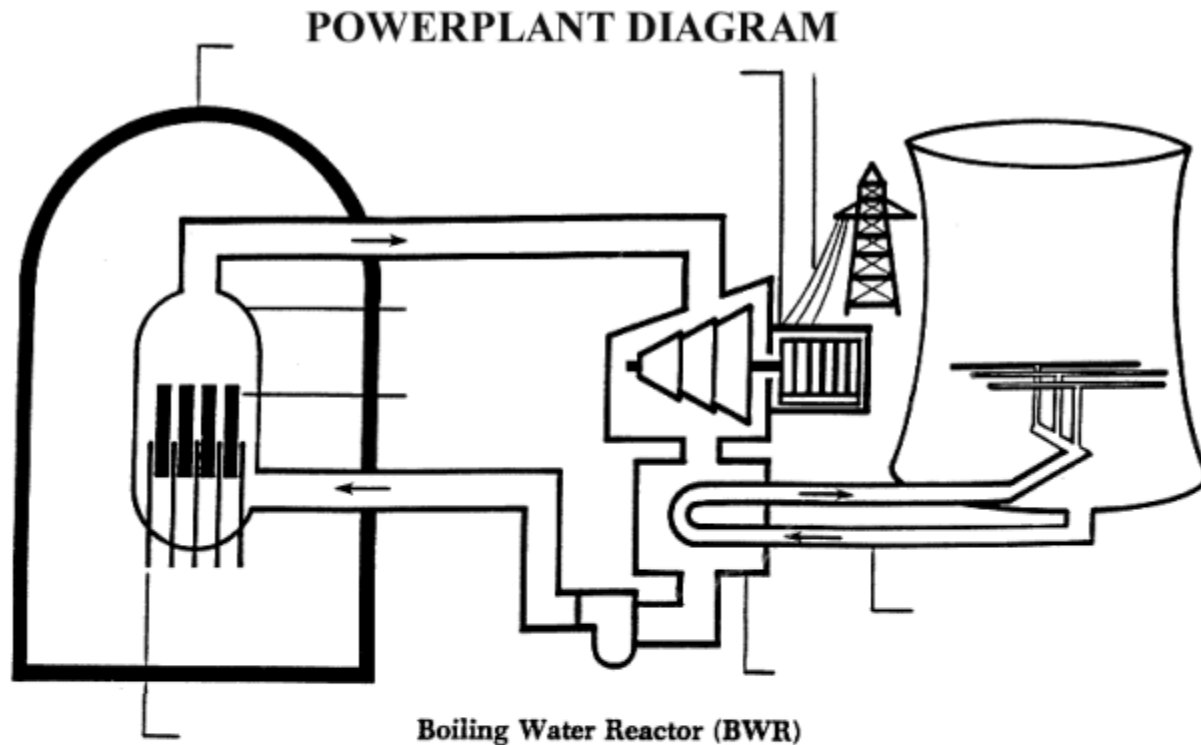


Label the Components of Each Type of Reactor Discussed in the Notes on the Website and Answer the Questions at the End.



A. Identify the powerplant parts by writing the number of the correct powerplant part on the blank.

- | | | |
|-------------------------|-----------------------|-----------------|
| 1. containment building | 4. cooling water loop | 7. condenser |
| 2. turbine-generator | 5. transmission lines | 8. nuclear fuel |
| 3. control rods | 6. reactor | |

B. Color the separate loops using a different color for each loop. Then use the following symbols to show what is in each loop or part of a loop.



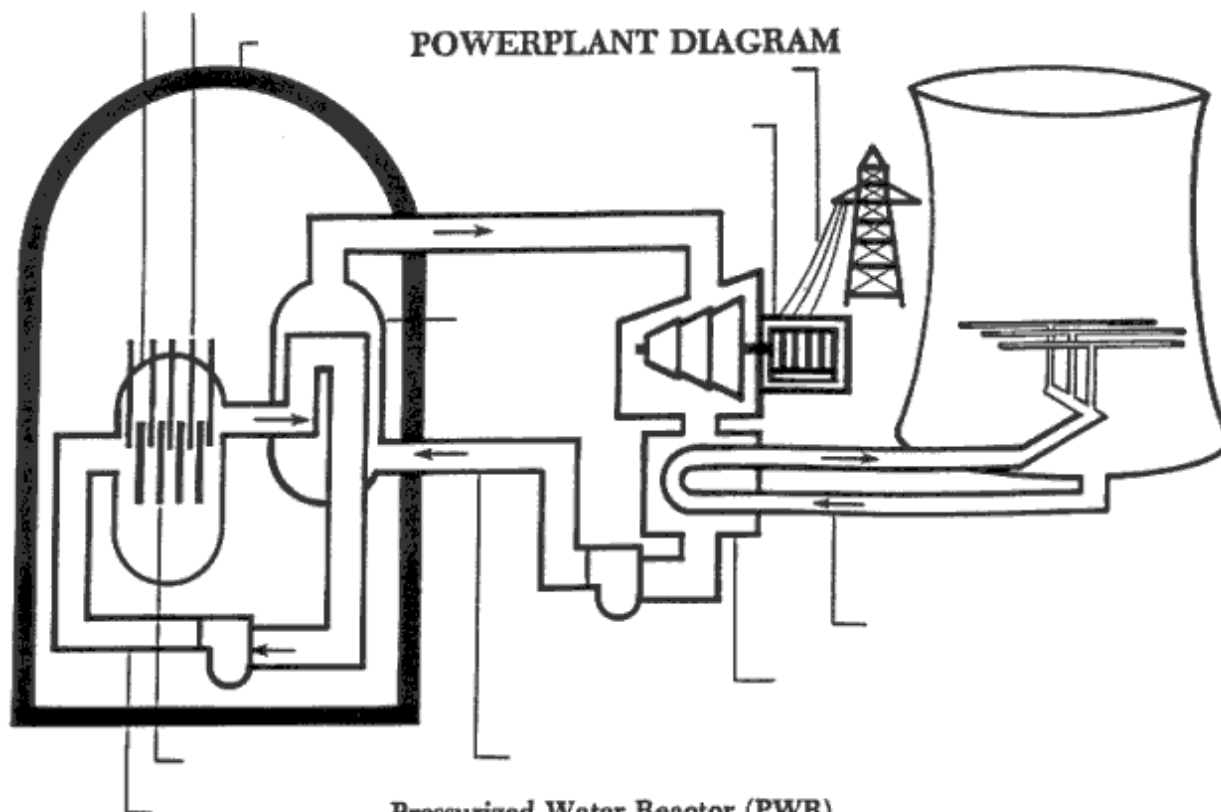
= steam



= water



= steam converted
back to water



Pressurized Water Reactor (PWR)

A. Identify the powerplant parts by writing the number of the correct powerplant part on the blank.

- | | | |
|-------------------------|-----------------------|-----------------------|
| 1. reactor | 5. steam-generator | 9. first water loop |
| 2. control rods | 6. turbine-generator | 10. second water loop |
| 3. cooling water loop | 7. transmission lines | 11. nuclear fuel |
| 4. containment building | 8. condenser | |

B. Color the separate loops using a different color for each loop. Use the following symbols to show what is in the loop or part of the loop.



= steam



= steam converted
back to water



= cooling water



= water in first
loop

Questions

1. Is there a nuclear power plant near where you live? What type is it?
2. Why don't boiling water reactors have steam generators?
3. What is the purpose of a "cooling tower"?
4. What percentage of the electricity in the U.S. is produced in nuclear power plants?
5. Name the two types of reactor power plants in operation the U.S. What are the basic differences?