Hydroelectric Plant Power Generation Engineer Interview Questions

1. Describe your experience operating energized high- and/or low-voltage hydroelectric power transmission system substations.
2. Share an experience in which you effectively provided technical direction in the erection and/or commissioning of hydroelectric equipment and/or supporting electrical or mechanical systems.
3. Provide an experience in which you effectively developed or implemented policy evaluation procedures for hydroelectric generation activities.
4. Share an experience in which you directed the operations, maintenance, and repair of hydroelectric power facilities. What methods made you successful?
5. Tell me of an experience where you developed or reviewed budgets, annual plans, power contracts, power rates, standing operating procedures, power reviews, or engineering studies.
6. Tell me about a project you developed and/or implemented which improved efficiency, economy, and/or effectiveness of a hydroelectric plant operation.
7. Provide an experience in which you performed and/or directed preventive or corrective containment and/or cleanup.
8. Share methods you find helpful when you check hydroelectric operations for compliance with prescribed operating limits, such as loads, voltages, temperatures, lines, or equipment.
9. Provide an experience in which you effectively identified and responded to a power system emergency/problem.
10. Share an effective method you have used to create and/or enforce hydrostation voltage schedules.
11. Share an experience in which you supervised hydropower plant equipment installations, upgrades, and/or maintenance. What methods made you successful?
12. Share an experience in which you effectively negotiated a power generation contract with other public or private utilities. What methods made you successful?

13. What factors do you consider when planning hydroelectric plant upgrades? Share an experience.
14. Provide an experience in which you effectively resolved a problem related to a private or public power resource interest, such as ratepayers or water users.
15. Share an experience in which you effectively planned and coordinated hydroelectric production operations to meet customer requirements.
16. Provide an effective method you have used to monitor and inspect hydroelectric equipment.
17. What is the state of your records of hydroelectric facility operations, maintenance, and/or repairs? What is something you would like to improve?
18. Share an effective method you have used to ensure that hydroelectric facilities operate normally and adhere to safety standards.
19. Provide an effective method you have used to ensure that equipment conforms to regulations and standards.