

Replacement of Coral Linn Dam Spillway Gates

1. Weight of a present gate. -----
2. Weight of proposed new gate -----
3. Explain how frequent the gates were exercised in each of the last years.
4. Where there any problems encountered as a result of question three?.
5. State the largest number of gates that needed to be open to accommodate flow in each of the last five years and the duration of the openings.
6. How many days per year does flow exceed generation capacity from this location.
7. Page 16.line 26-27 Please supply short description of the magnitude of the statement.
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9. Page 31. Line 10 to 16. Supply the short description of the best case one could hope for, with an estimate of dollars value of repairs.
10. The same question 9. Replace best case one could hope for with, the worst case one might find.
11. Page 32 line 24 the present gate bearings have some problems please provide the percentage of reduced load the proposed anti-friction bearings will provide over the existing bearings if they were working properly.
12. Page 32 line 22 to 26. Explain the -improve roller path statement .
13. Page 32. line 27 What is the present skin thickness and the thickness in the proposed new gates,

Is there any deflection latterly or horizontally in any of the existing gate under maximum up stream pressure.

If so please state amount.

14. Page 33. line 1. With 14 gates please explain how one gate failure would effect generation.
15. Page 41 line 1. Pictures show spillways dry, if there is leakage please state the amount and where, and cause of problem.

15 A. Page 40 line 10 during the opening and closing process how much pressure will the proposed new bronze bearing take on the up stream side?.

16. Page 59. Is 15% contingency a normal engineering estimating practice.?
17. Is it feasible to have a two part gate with a mechanical locking device that would allow a smaller top section to be opened that would reduce discharge pressure, reduce erosion and corrosion and be designed to be able to be attached to the lower section for full gate lifting.
18. Page 61. line 9.

Provide number of customers that consume less than 991 kW of electricity per month on a yearly average what percent of the lower rate group go over 991kw in high demand times like winter months.

19. Provide number of resident customers in the hire rate and average dollars their billing will increase using the average consumption of the total usage of all in this higher rate.
20. Please provide a plan of lifting options and amenities required for removal of old gates and the numbers of transfers that will be required for each gate.

21. Please provide plan and amenities required for installation of proposed new gates.

22. Would inverting the present jacks crews be beneficial to extend their working life.?

Norman Gabana