

April 29, 2024

6.0 SUMMARY

6.1 SUMMARY

Burns & McDonnell has been retained to assess the cost of two particulate control options located between the reheat system and the stack to meet the proposed MATS Rule. The main objective of this evaluation is to provide an AACE Class 4 cost estimate incorporating site specific factors such as considering the power source for the new control system.

In Section 3, the two control technologies were described. In Part 4, the availability of Colstrip to have guarantees for the technologies was discussed. In Part 5, capital and O&M costs for the two options were estimated.

6.1.1 Balance of Plant Impact Analysis

The compliance plan selected will impact balance of plant equipment at Colstrip. Further detailed studies will be necessary to fully define the detailed scope of the project.

- An ash disposal study should be performed to determine the best method of ash disposal and placement of the ash handling equipment.
- A balance of plant utility interface study should be performed to determine the most cost effective approach on plant utilities such as instrument air, service air, etc.
- A draft system study should be conducted prior to execution of any retrofit technologies. This study would identify any ductwork that would need stiffening or replacement due to the changed pressure drop profile through the system.
- An electrical load study should be conducted to address the addition of the new air pollution control equipment to Colstrip that increases the power consumption at the plant. This study would confirm if the existing station transformers have the capacity to support the balance of plant (BOP) power needs and air compressors. It could also identify potential other, more cost effective, sources of power. For purposes of this study, it was assumed the ESP would be powered by a new transformer connected to the grid. The other systems would be powered from the existing MCC's in the scrubber building.

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