

August 6, 2019

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Process/Project Engineer
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Optimus Plant Code: %& -
Proposal: 65498R1

SUBJECT: Combustion Performance Audit – Calciner 1 and 2

Dear Mr. Smith:

Thank you for giving **Optimus Solutions** the opportunity to perform our Combustion Performance Audit service on your Calciner #1 and #2 units. The purpose of this service visit was to improve the heating profile of the #2 zone on Calciner #1 and make recommendations for process improvement; the last burner service at this plant was performed by _____. There is concern that the temperatures being lower in the center section of the #2 heating zone would be causing a problem with the material not being calcined thoroughly. **Optimus Solutions** is onsite to use collected empirical data and component manufacturers' specifications to correct the deficiencies and improve the overall equipment process performance.

Work Scope

- Perform Combustion Performance Audit on Calciner 1 and 2
 - Adjust burner to run optimal burning
 - Adjust to improve temperature profile per customer request
 - Record after temperature profile
- Write-up with findings and adjustments
- Show a before and after temperature profile

Recommendations

- Air seals for the firebox are recommended for both Calciner #1 and 2. This decrease the presence of cool air into the system and improve overall efficiency.
- #7 burner on #1 Calciner needs the burner tile replaced as it is cracked and crumbling, causing problems with the air fuel mixing.

