

## Project Summary

In August of 2020, Lee Mechanical Contractors was contracted by Geofortis Utah for the construction of a new modern Supplementary Cementitious Material (SEM) grinding facility in Toole County, Utah. This project supports a minimum production of 300,000 tons of pozzolan product annually to be utilized in the ready-mix and cement industries. To achieve this, Geofortis contracted with Cemengal, a modular design-based grinding OEM, for the design and supply of the pozzolan grinding system. Cemengal designed and built the “Plug N Grind XTREME” modular mill system at their facility in Spain, and then shipped each individual module directly to the projects site for installation. This was the first ever Cemengal modular system installed in the United States, which caused many unknown challenges throughout the project. Covid-19 also contributed to these challenges causing numerous shipment delays with equipment and the Cemengal mill modules. However, Lee Mechanical is a Cemengal Certified US Installation Company and was fully prepared to overcome these challenges. By utilizing the erection procedures that were quickly developed by the on-site team and working with Cemengal, we were able to erect the mill equipment more efficiently than the company had ever seen.



Plug & Grind Modules Assembled

## Project Construction

Lee Mechanical Contractors was awarded the contract for the construction of a supplementary cementitious material grinding facility for Geofortis Utah and was expected to begin in August of 2020. However, due to several equipment delivery issues and permit delays, we were not able to mobilize on to the project site until the end of October.



Start of Project

We officially started construction of the facility in early December and began with the erection of the drying system and associated dust collection system. Unfortunately, due to Covid-19 and other delaying factors, we could not start the erection of the main processing system until the Cemengal mill equipment had arrived from Madrid, Spain. This equipment did not arrive to the site until late March 2021, which was only a few weeks before the projects original scheduled completion date.



Drying System Erection



The Cemengal mill modules began to arrive on site from Spain, allowing us to begin erecting the process section and prepare to connect all the supporting systems to the section.

We were further delayed by the suppliers of the conveyors and the dust conveying equipment. Even with the frustration from constant delays affecting the construction, our team stayed determined and pushed through with exemplary performance.

While installing the drag chain conveyor system located in the bulk storage building, we found that the concrete inside the trench was not poured to the proper specification which caused issues with the conveyor system install. This resulted in the need to make extensive modifications to the conveyor rails and drive stands for proper installation.

With the continued dedication and hard work from our team, Lee Mechanical Contractors successfully completed the project in September of 2021 and constructed the first ever modular grinding facility in the United States on schedule, and with zero recordable incidents.