

The Hard Facts

L.L. Geans Builds Safety into Furnace Base and Run-Out Pit for Federal-Mogul

Project Overview

- Construction of shaft melting furnace base and run-out pit
- L.L. Geans evaluated the safety standards for the furnace base and implemented an improved design

"Federal-Mogul has used L.L. Geans for many projects and I looked at their work in our facility. After reviewing their work, I wasn't interested in meeting with their competitors. I appreciated that Rocky Geans evaluated the specifications for the furnace base and suggested improvements. I am very pleased with L.L. Geans."

—Leonard Wenzel, Manufacturing Engineer
 Federal-Mogul Powertrain

L.L. Geans recently installed a base for a new melting furnace and its run-off pit at Federal-Mogul Powertrain. The furnace is supported on three legs, weighs 130,000 lb. and will hold 13,000 lb. of molten metal. The run-off pit will contain any molten metal spilled as a result of accident, run-out or dumping of the furnace in an emergency. Strict standards must be considered in the construction of the base and pit to protect workers, equipment and structures from molten metal.

The furnace manufacturer's engineering drawings didn't specify the depth of concrete in the base and the OEM was comfortable with a base of only six inches. Since L.L. Geans would normally build a base of 12 inches for a melting furnace, Rocky Geans wanted another opinion. He requested an evaluation by an outside engineering firm and the engineer agreed that a 12-inch base was needed to handle the live and dead loads of the furnace. Federal-Mogul approved the new engineering drawing and L.L. Geans constructed the deeper base.

"Safety is a key corporate value at L.L. Geans," said Rocky. "I appreciate that Federal-Mogul shares our values." ■



The furnace base and furnace are installed and work has begun on the run-off pit.



The L.L. Geans' crew excavates the run-off pit.



The completed run-off pit with the forms still in place.

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Interior Demolition Project for Niles Steel Tank

We built it and we tore it down!

Niles Steel Tank is a US manufacturer of ASME code pressure vessels and storage tanks for both carbon and stainless steels. Due to innovations in their testing procedures, Niles Steel Tank no longer needed a testing room and the space could be put to much better use.

It's not very often that L.L. Geans is called in to demolish their own work, but that was the case here. L.L. Geans built the testing room several years ago. The L.L. Geans' crew brought in their demolition equipment and carefully dismantled the 14-ft. tall structure with 2-ft. thick walls. ■



The testing room at Niles Steel Tank before demolition by L.L. Geans.

Plan Your Winter Work Projects Now

And get on our friendly reminder list

Winter is a good time to get maintenance and repair jobs marked off your to-do list. Here are a few interior projects that will enhance the productivity and safety of your facility.

- Masonry, crack and joint repair
- Floor slab replacement
- Containment pits
- Loading docks
- Protection posts
- Door openings
- Trench drains
- Ramps
- Interior demolition
- Overhead and service doors

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Our helpful staff will call you, provide a project estimate and get you on our production schedule before our busy exterior work season starts in April. ■