

R.T. Patterson Company, Inc.

Engineers and Consultants

CLIENT

TPCO America
Corpus Christi, Texas

PROJECT

Steelmaking Facility – Seamless Pipe Rolling
Facility – Final Engineering

PROJECT SCOPE

The project consists of installing a new Steelmaking Facility for the Seamless Pipe mill on a greenfield site consisting of the following: Consteel Scrap Conveyor, Electric Arc Furnace, Ladle Metallurgy Furnace, Vacuum Tank Degasser and Billet Caster. Major components for Facility are: Installing a new canopy roof design including a new damper

- New Scrap and Steelmaking Buildings
- New Consteel Scrap Conveyor
- New 90MT Electric Arc Furnace
- New 90MT Ladle Metallurgy Furnace
- New 90MT Vacuum Tank Degasser
- New Four (4) Strand Continuous Billet Caster
- Transformer Vaults for EAF (70 MVA) and LMF (19 MVA)
- Operating floors for EAF, LMF, Degasser and Caster
- Alloy Additive systems for EAF and LMF
- Fume Emissions System for including Drop Out Box, Water Cooled Duct & Baghouses
- New Water Treatment Facility
- New Substation, Slag Yard, Scrap Yard

RTP SCOPE OF WORK

RTP provided the following installation engineering services:

- Field investigations
- General arrangement and layout drawings
- Foundation design and installation drawings for buildings and equipment support
- Structural design and installation drawings for buildings and equipment support
- Architectural design and installation drawings for Control Rooms and Transformer Vaults
- Process/utility piping design and installation drawings
- Electrical design and installation drawing
- Preparation of equipment procurement specifications
- Preparation of Installation Specifications
- Preparation of Specifications Refractories, Pneumatic Tube Systems and Fire Protection
- Prepare Vendor Proposal Evaluations and Recommendations for Placement
- Project management services between TPCO and equipment suppliers/contractors
- Preparation of building permit drawings
- Project Scheduling
- Project Management



Project Value: \$242 Million