

R.T. Patterson Company, Inc.

Engineers and Consultants

CLIENT

The Industrial Company (TIC)
Norandal USA, Inc.
Huntingdon, Tennessee

PROJECT

Installation of 6 Hi Rolling Mill and
Automated Storage Retrieval System
(ASRS)



PROJECT SCOPE

The project, located at the Norandal USA, Inc. Huntingdon, TN Plant. The work was performed by the TIC/RTP joint venture for the installation engineering, foundation, piping and electrical construction and installation of the Rolling Mill and ASRS equipment.

RTP SCOPE OF WORK

RTP provided the following Engineering Services:

- Provision of on-site construction / engineering suppliers, constructors and engineering firms for caster, building and finishing area interfaces.
- Receipt of vendor drawings and conversion of metrics to customer's US standard preferences and preparation of general arrangement drawings of the vendor equipment drawings into the overall building plan.

RTP SCOPE OF WORK (Cont.)

- Provision of foundation design drawings for the mill proper, roll change area, mezzanine operating area, coil, scrap and sleeve handling areas and the PLC/computer and switchrooms.
- Provision of structural design drawings for the support of the main pulpit, and miscellaneous structural platforms. This included design and pipe conduit supports to seismic design conditions for zone 4-5.
- Provision of architectural design drawings for the walls/doors that separate various operating areas beneath the mezzanine floor, as well as for the design of the 2-story PLC/computer and switchrooms.
- Provision of interconnecting piping design drawings, based on the MDM provided process flow diagrams and schematics for the air wash, roll coolant, pneumatic, high and low pressure hydraulics, oil lubrication, and fire suppressant systems.
- Provision of interconnecting electrical design drawings based on the MDM and Siemens power, control and signal schematics, flow diagrams, data sheets, etc.



**Project Value: \$50 Million for Rolling Mill/ ASRSS portion only
\$250 Million Overall Quantum Leap**