

ANYTHING AND EVERYTHING FOR STEEL MANUFACTURERS



... EXCEPT THE ORDINARY

“CONCEPTUAL DESIGN.....”

CASE STUDY - NEW 160' COOLING BED INSTALLATION



Problem #1:

Footprint of new cooling bed coincided with the existing location of operational hot transfer equipment.

Proceeding with demolition of the hot transfer and its foundations prior to construction of the new cooling bed would require an extended five (5) week mill shutdown.

QUAD Solution - Temporarily support operational hot transfer equipment to allow for demolition of the existing foundations and completion of the new cooling bed foundations.

Result - Majority of installation completed concurrently with regular mill production.

Installation Features:

- Regular production allowed to continue uninterrupted
- Cooling bed erection completed with a minimal two (2) week shutdown



QUAD CONSTRUCTION SERVICES

INSTALLATION ENGINEERING

 The business of equipment vendors is selling equipment. **USE QUAD'S EXPERIENCE** to specify, design and install new equipment according to your unique process requirements and production schedule.

QUAD offers:

- Complete installation engineering services
- Familiarity with local building codes
- Supplier and contractor independence
- Supply to exact equipment specification requests

PROJECT MANAGEMENT

 Successful projects require significant effort. **QUAD OFFERS TOTAL PROJECT MANAGEMENT SERVICES, from conceptual design to commissioning.**

- Scope definition and conceptual design
- Capital budget estimation
- Specification preparation and equipment procurement
- Budget tracking and reporting
- Technical liaison between client and supplier

Involve **QUAD** early in the project and achieve your project goals in a timely and economical manner with fewer unexpected surprises.

CONSTRUCTION MANAGEMENT

 Some clients prefer to act as general contractor. **USE QUAD'S SITE MANAGEMENT SERVICES** to maximize use of labor during shutdown periods and minimize unexpected delays.

QUAD will collaborate with plant management and employees to achieve:

- Quick learning curve for new equipment
- Short production ramp-up period
- Installation without unscheduled production downtime

..... **TO COMMISSIONING”**



Problem #2:

Installation of new 160' cooling bed required the removal of six (6) compound building/crane columns.

QUAD Solution- 180' span bridge truss to replace removed columns.

Result - Zero impact to mill production schedule.

Installation Features:

- Design and construction allowing interference-free installation of new cooling bed foundations
- Installed concurrently with mill production operations
- Major component installation in operating areas was accomplished during mill down-days
- Required shutdown scheduled to coincide with a two day maintenance shutdown.

STEEL MANUFACTURERS CHOOSE QUAD

- ⌘ Today's highly competitive market does not afford most steel manufacturers the luxury of employing in-house engineers to specifically manage capital projects.
- ⌘ Since 1983, **QUAD** has focused its expertise to exclusively service the steel industry.

Choosing **QUAD** for Installation Engineering, Project Management and On-site Construction Management means:

- Single source for project co-ordination and project responsibility
- Steelmaker can stick to the core business of making steel
- Less time in meetings with suppliers
- Less time travelling
- Current employees are not saddled with increased workloads

Your core business is producing steel.....

... QUAD'S CORE BUSINESS IS SUPPORTING STEEL PRODUCERS

 **QUAD**
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