Cora Terminal Coal Storage and Reclaim

PROJECT: Cora Terminal Expansion - Coal Storage and Reclaim System
CLIENT: Kinder Morgan
LOCATION: Rockwood, IL
SERVICES: Mechanical, Structural, Civil and Foundation Design, Technical Evaluation and Drawing Review

DESCRIPTION:
Coal is being stockpiled via radial stacker close to the existing transfer tower TT4.The existing radial stacker provided inadequate storage capacity for the terminal's future needs. The study evaluated replacing the existing radial stacking system with a new system located within the existing rail loop in an unutilized area of the facility.

With the implemented arrangement, the existing diverter gate below conveyor C-3 diverted the coal through a new chute to the new conveyor C-6. This conveyor is designed to deliver coal at 4,000 stph to the yard and transfer the material to a new radial stacker RS-21. The radial stacker will form a kidney shaped stockpile.

Stockpiled coal will be reclaimed with bulldozers through any of six hydraulic diverter gates that will minimize the pushing distance for the dozers. The hydraulic diverter gates will discharge to reclaim conveyor C-7 inside of a new 12' tall x 15'-8"wide x 637' long reinforced concrete tunnel. The reclaim conveyor is designed to convey the coal at a capacity of 6,000 stph to the existing conveyor C-4.

Other improvements included an earthen containment berm, escape tunnel, escape tunnel access structure, site grading, and drainage improvements.

PRINCIPAL FEATURES:
- Mechanical Engineering Design
- Structural Engineering Design
- Civil and Foundation Design
- Technical Bid Evaluation
- Shop Drawing Review

This project highlights River's considerable strengths in material handling. The project significantly expanded the storage capacity of the terminal, which provided greater material handling flexibility for the facility.

RIVER

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