PROJECT PROFILE:
SUNZIA TRANSMISSION

RACE ROCK

Delivering Large-Scale Transmission Structures for the Largest Renewable Energy Project in U.S. History

PROJECT DETAILS

Timeline: June – December 2024 **Location:** New Mexico, USA **Industry:** Utility Transmission Infrastructure

PROJECT OVERVIEW

Race Rock delivered ninety-three (93) engineered 525kV transmission structures totaling approximately 3,000 tons of fabricated steel for the largest renewable energy transmission project in U.S. history.

Supporting the expansion of critical grid infrastructure across the Southwest, the project showcased Race Rock's ability to execute complex utility programs requiring advanced engineering, specialized manufacturing capabilities, and accelerated production schedules.

As one of the largest utility projects in company history, it demonstrated Race Rock's commitment to quality, safety, and on-time delivery.

SCOPE OF WORK

Race Rock provided project management, engineering support, fabrication, quality assurance, and delivery of large-scale transmission structures, including:

- Ninety-three (93) 525kV transmission structures
- Eighty-three (83) tangent structures
- Ten (10) dead-end structures
- Large-diameter tubular steel pole sections
- Heavy-wall formed steel components
- Weathering steel structures
- In-house blasting and surface preparation
- Structural assemblies and related components
- Quality inspection and testing
- Coordinated shipping and logistics support

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KEY CHALLENGES

Extra-high-voltage transmission projects demand a unique combination of engineering expertise, manufacturing capacity, and execution discipline. Key project challenges included:

- Manufacturing some of the largest transmission structures ever produced by Race Rock
- Forming and welding extra-large diameter pole sections
- Handling extremely heavy components requiring specialized lifting procedures
- Managing aggressive production schedules while maintaining strict quality standards
- Coordinating multiple structure types and configurations simultaneously
- Supporting large-scale infrastructure construction timelines
- Implementing enhanced safety procedures for oversized structures and assemblies

SOLUTION / APPROACH

Race Rock leveraged its integrated engineering, project management, and manufacturing capabilities to successfully execute the project through:

- Dedicated project management and customer support resources
- Concurrent engineering, procurement, and fabrication activities
- Advanced tubular structure manufacturing capabilities
- In-house plate forming, welding, blasting, and assembly operations
- Rigorous quality control and inspection procedures
- Real-time production scheduling and project tracking
- Cross-functional collaboration between engineering, manufacturing, quality, and logistics teams

RESULTS / OUTCOMES

- Produced and shipped ninety-three (93) engineered 525kV structures
- **Achieved 100% shipment completion with zero schedule or quality issue**
- Fabricated approximately 95% of project structures within a concentrated three-month production period
- Supported the successful construction of critical transmission infrastructure connecting renewable energy resources to the grid
- Demonstrated Race Rock's ability to execute large-scale utility transmission projects at national scale

UNIQUE HIGHLIGHTS

- 130"+ diameter pole sections
- 80,000+ pound base sections
- 1-inch thick formed steel base sections manufactured in-house
- Full structure weights exceeding 180,000 pounds
- Weathering steel construction
- In-house blasting capabilities
- Large-scale dead-end and tangent structure configurations

CUSTOMER / PARTNERSHIP IMPACT

The successful completion of the SunZia Transmission Project reinforces Race Rock's position as a trusted manufacturing partner for large-scale transmission and renewable energy infrastructure projects. By combining engineering expertise, manufacturing scale, disciplined project execution, and customer-focused support, Race Rock delivers the quality, reliability, and schedule performance customers depend on — **Perfect Fit. On Time. Every Time.**