

PALO VERDE TO PINAL WEST 500KV TRANSMISSION LINE



PROJECT TYPE

Transmission

SCOPE

52.4 miles of 500kV

LOCATION

Phoenix, AZ

CLIENT

Salt River Project

START DATE

May 2007

COMPLETION DATE

May 2008

Irby Construction was contracted by the Salt River Project to construct the Palo Verde to Pinal West 500kV transmission line in March of 2007. Located in Phoenix, AZ, this line consisted of 52.4 miles of single circuit triple bundle 1590 kCM ACSR 'Lapwing' conductor with one overhead ground wire, and one fiber optic ground wire on approximately 205 self-supporting lattice steel towers and one tubular steel pole.

The Palo Verde to Pinal West Project serves Pinal and Maricopa counties in Arizona and consists of a new 55-mile single circuit 500kV transmission line that connects the Palo Verde area to the Pinal West Switchyard. The Project serves six utility districts including the Salt River Project. The capacity of the line is 1,400 MW and increased the Arizona transmission system capacity in Pinal and Maricopa Counties.

Irby began construction on this line in May of 2007, and was responsible for pickup or receiving, unloading, sorting, checking, inspecting, storing, hauling, stringing and sagging of conductor material. Sagging was done using the transit level sag method. An adequate number of transits were employed based on the pull lengths. The foundation work for this project was performed by Can-Fer Construction Company, and the Leadline was performed by Air2, LLC. This project was successfully completed in May of 2008.

