

JOJOBA 500 kV SWITCHYARD

ARIZONA PUBLIC SERVICE
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PROJECT DESCRIPTION

ECI was selected on the basis of qualifications and past experience by APS to provide engineering services on the Company's most critical station project in the last decade. Design concepts for Jojoba required energization to be accomplished within 16-months from the design start date. This goal was achieved by the APS/ECI team, despite a transfer of facility ownership to Salt River Project, necessitating considerable change in project design and documentation.



Extensive Relays & Controls



500 kV PCB

Jojoba utilizes a "folded breaker-and-one-half" design, an unusual concept at 500 kV. ECI's scope of work included complete civil, physical, electrical and communications design for facilities with the exception of some EMS and communications tasks provided by APS.

KEY FACTS & HIGHLIGHTS

- ❶ **UNIQUE FOLDER BREAKER-AND-ONE-HALF FOR 500 kV YARD**
- ❷ **CHANGE TO SRP OWNERSHIP NECESSITATED IN-PROCESS CONVERSION TO SRP STANDARDS**
- ❸ **COMPLETE CIVIL, PHYSICAL AND ELECTRICAL DESIGN SERVICES**



Profile of 500 kV Strain Bus Towers

◆ *Engineering With Distinction* ◆