

## Project Experience

### **Path Engineering for Microwave Video Network Upgrade** **Mohave Community College, Kingman, AZ**

Timberline analyzed the current microwave video network and studied the frequency bands that the college would be eligible to use in a digital system upgrade. The network is currently operating in two frequency bands: 6 GHz to Colorado City (using three repeaters) and 12 GHz (on a secondary non-interfering basis in the Direct Broadcast Satellite band) to Lake Havasu City and Bullhead City. All paths are routed through the Hayden Peak repeater site. In an upgrade from analog to digital, the college requires as many as three 45 Mbps video channels using DS3 digital technology. The study identified the 6, 11 and 18 GHz bands to meet the bandwidth requirements of video broadcasting. A preliminary frequency plan was developed to meet the needs of the college's satellite campuses and learning centers. Timberline conducted path engineering, frequency coordination and FCC license application preparation.

The logo for Mohave Community College, featuring the word "Mohave" in a stylized, blue, cursive font.

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