


Case Study #2 – Upgrade Critical Line

Project Name: 90 South – Oquirrh
Location: Utah
Objective: Increase Capacity / Utilize Existing Structures / Minimize Costs
Project Specs: 6.7 Mile / 138 kV / 153 Existing Structures
Constraints: Cost / Heavy Under-build (46kV, etc) Limited Outage / Sag Limitations

Solution: ACCC® Drake


Results: **Increased Capacity by Over 80%**
Only 7 Structures Modified
Quick Installation

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Increasing System Efficiency with High Temp-Low Sag Conductor


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Increasing System Efficiency with High Temp-Low Sag Conductor

- Goal:
 - Relieve infrastructure stress in a safe, reliable and cost effective manner.
- Challenges:
 - Load growth is increasing demand
 - R/W acquisition is difficult
- Solution:
 - High Temperature-Low Sag Conductor

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Conductor Selection Methodology

- Analyzed 6 conductors in 11 major categories

DRAKE (ARBITUS)	ACSR	ACCR	INVAR	GAP	ACSS	ACCC
Conductor Cost (per kft)	X	X	X	X	X	X
Stringing Costs (per kft)	X	X	X	X	X	X
Accessories Cost (per kft)	X	X	X	X	X	X
Overall Costs (per kft)	X	X	X	X	X	X
Max Ampacity (A)	X	X	X	X	X	X
Power loss at Max Temp (kW / kft)	X	X	X	X	X	X
Power loss average	X	X	X	X	X	X
Sag	X	X	X	X	X	X
Field Tested	X	X	X	X	X	X
Lead Time	X	X	X	X	X	X
Bid Ability	X	X	X	X	X	X

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