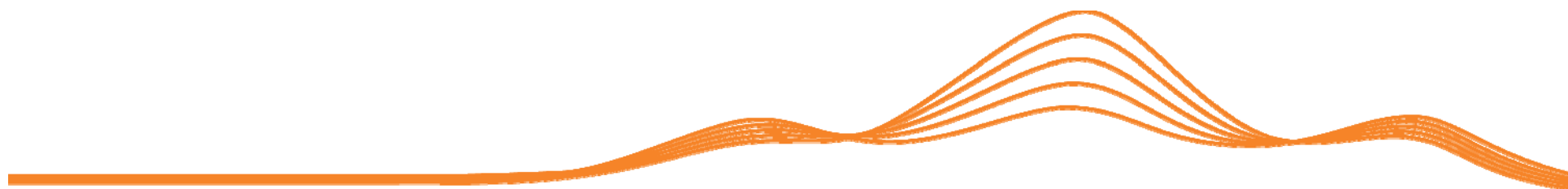




Black Hills Corporation Transmission Plan



Black Hills Power
Cheyenne Light, Fuel & Power
Black Hills Colorado Electric

December 8, 2016 CCPG Meeting

Black Hills Power



Project	Estimated In-Service	Need/Purpose
Rapid City DC Tie RAS Reconfiguration	2017	Incorporate Transmission Additions, Reliability Needs
Teckla-Osage 230 kV Line (82 mi)	In-Service	Transmission Service Request
Osage-Lange 230 kV Line (65 mi)	Q1 2017	Reliability,
South Rapid City-Westhill 230 kV Rebuild	Q4 2018	Age of Infrastructure
West Hill-Stegal 230kV Rebuild	Q4 2017 & Q4 2019	Planned, Staged Construction
Osage Transformation (Sagebrush Substation)	Q4 2019	Reliability
Second Yellowcreek 230/69kV XFMR	Q4 2021	Reliability
Wyodak Area 230/69kV XFMR	Q4 2021	Reliability
Osage Area 230/69kV XFMR	TBD	Reliability
Wyodak Area Transformation	TBD	Reliability

Cheyenne Light, Fuel & Power



Project	Estimated In-Service	Need/Purpose
King Ranch 115 kV Substation and Transmission to North Range 115kV Line	Q3 2017	Load Service
North Range – King Ranch – Swan Tap 115kV Circuit Upgrade (Reconductor)	Q3 2017	Planned
Happy Jack – North Range 115kV Upgrade (Reconductor)	Q4 2017	Planned
Happy Jack 115kV Substation Terminal Upgrades	TBD	Proposed
Swan Ranch 115 kV Substation	Q4 2020	Load Service
Cheyenne Prairie – Archer 115 kV Circuit Rebuild	2020	Reliability, Load Service
Cheyenne Prairie – East Business Park 115 kV Circuit Rebuild (~0.5 mile)	2020	Reliability, Load Service
Swan Ranch 115kV Substation	Q4 2020	Planned
North Range - Swan Tap - South Cheyenne 115kV	Q4 2020	Planned
Cheyenne Prairie – South Cheyenne 115 kV Double Circuit (~10 miles)	Q4 2022 or Q1 2023	Proposed

Black Hills Colorado Electric



Project	Estimated In-Service	Need/Purpose
Rattlesnake Butte 115 kV Terminal Addition	In-Service	Completed
Boone-Nyberg 115 kV Project	Dec-16	In-Construction
Boone 115-69 kV Transformer Replacement	In-Service	Completed
Pueblo Plant-Reader 115 kV Line Terminal Upgrade	Sep-17	Planned
Baculite Mesa-Fountain Lake 115 kV Line Rebuild	Jan-17	In-Construction
Fountain Lake (Overton Project) 115-69 kV Substation	Jul-17	In-Construction
La Junta 115-69 kV Transformer Addition	Dec-18	Planned
Rocky Ford - La Junta 69kV Network Upgrades	Dec-18	Planned
Portland 115/69 kV Transformer Replacement	Dec-19	Planned
West Station 115 kV Substation Upgrades	Mar-18	Planned
Arequa Gulch 115 kV Capacitor Bank	Dec-18	Planned
West Station –West Canon 115kV Line	2019-2020	Planned
Desert Cove – Fountain Valley 115 kV Line Rebuild	2019	Proposed
Fountain Valley – MidwayBR 115 kV Line Rebuild	TBD	Proposed
Replace breaker Jumpers at Airport industrial	TBD	Proposed
Replace CT on Midway-Northridge 115kV Line	TBD	Proposed
Rebuild Nyberg-Airport Memorial 115kV Line	TBD	Proposed
Boone-La Junta 115kV Line Rebuild	TBD	Proposed
Boone-La Junta 115kV Line Rebuild	TBD	Proposed

Contact Information

Wes Wingen

Manager, Transmission Planning

wes.wingen@blackhillscorp.com

(605)-721-2268

Charles Shue

Senior Engineer, Transmission Planning

Charles.Shue@blackhillscorp.com

(605)-721-1763