

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

TCA Projects Pursuant to Decision C21-0814 in Proceeding No. 21AL-0516E, and Decision C22-0438 in Proceeding No. 22M-0005E

1. West Station – PSCo tap 115 kV

- the name(s), and function or purpose of the project;
 - i. West Station – PSCo tap is to rebuild aging infrastructure.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. no such decision exists.
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. This is a construction project that will replace an existing facility, it will upgrade and allow additional capacity on the line.
- the proposed location(s);
 - i. Pueblo West, Co
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. N/A
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. Voltage: 115 kV
 - ii. Length: 2.5 miles
 - iii. Termination points: West Station and PSCo Tap
- the estimated planning, development, construction, and total project costs; and
 - i. The project is in the planning phase, and the Company estimates that the total cost for the project of \$1.5 million.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. Costs to date relate to project planning. The Company plans to begin construction in Q3 of 2024, and the Company estimates the project will enter service Q1 2025.
- Work Orders included in this project
 - i. 10079193 – West Station-PSCo tap 115 kV
- 2023 Rule 3206 reference
 - i. N/A

2. 115kV Turkey Creek LGIA Sub

- the name(s), and function or purpose of the project;
 - i. This project is a network upgrade to accommodate the Large Generation Interconnection Agreement.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. no such decision exists.

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. This project is for the construction of a new substation.
- the proposed location(s);
 - i. west of Pueblo West, CO.
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. Voltage: 115 kV
 - ii. MVA: 400 MVA
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. N/A
- the estimated planning, development, construction, and total project costs; and
 - i. The Company estimates the substation will cost \$3.9 million. The Company is in the planning and preliminary engineering phase of the project.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. The project has been delayed, and the Company therefore has no estimated completion date.
- Work Orders included in this project
 - i. 10080320-115kV Turkey Creek LGIA Sub
 - ii. 10082214-Turkey Creek BHCE-G29 - Direct
 - iii. 10082266-Turkey Creek BHCE-G29 – Direct
- 2023 Rule 3206 reference
 - i. N/A

3. Pueblo West 115 kV Distribution Substation

- the name(s), and function or purpose of the project;
 - i. Pueblo West 115 kV Distribution Substation. This new substation will intersect the West Station-Hogback 115 kV transmission line, and is required to serve new industrial agriculture load.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. Decision No. C20-0477
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. Construction of new substation
- the proposed location(s);
 - i. Pueblo West, Co
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. Voltage: 115 kV
 - ii. MVA Rating: 50 MVA

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. N/A
- the estimated planning, development, construction, and total project costs; and
 - i. The Company has spent \$3.7M on this project to date.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. Construction began in 2022, and is estimated to enter service by Q1 2024.
- Work Orders included in this project
 - i. 10070923-Pueblo West 115 kV sub
- 2023 Rule 3206 reference
 - i. Sheet A-22

4. West Station-Canon West 115 kV line Rebuild

- the name(s), and function or purpose of the project;
 - i. The West Station-Canon West 115 kV line Rebuild replaces aging infrastructure, which resulted in overloads and N-1 contingencies, while also increasing the line capacity.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. The Company sought Commission determination that this project is in the ordinary course of business in its 2023 Rule 3206 filing. No Decision has been issued in that proceeding.
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. The project is a rebuild and expansion of an existing line.
- the proposed location(s);
 - i. Pueblo West and Canon City
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. N/A
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. Voltage: 115 kV
 - ii. Length: 41 miles, across multiple work orders.
 - iii. Continuous MVA: 221 MVA
 - iv. Termination Points: West Station and Canon West
- the estimated planning, development, construction, and total project costs; and
 - i. Total estimated project costs are \$25.8 million. The Company forecasts it will spend \$8.1 million through December 31, 2023.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. The project began construction in 2023 and is expected to enter service in Q4 2025.

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

- Work Orders included in this project
 - i. 10080321-115kV Network Upgrades Turkey Creek
 - ii. 10081351-Canon W Tx Upgr-Turkey Cr Network
 - iii. 10081524-115kV Switch Replace Portland
 - iv. 10081660-115kV Canon City Switches
 - v. 10079181-Portland – SKALA 115 kV
 - vi. 10065006-115KV WS-Portland-CCP-CW Rebuild
 - vii. 10079182-Canon Plant - Skala 115
 - viii. 10079185-Hogback - Canon West 115 kV
 - ix. 10079188-Canon Plant - Hogback 115 kV
 - x. 10079179-West Station-Portland 115
- 2023 Rule 3206 reference
 - i. Sheet A-38

5. West Station-Hogback 115 kV Transmission Project

- the name(s), and function or purpose of the project;
 - i. The West Station-Hogback project is a new transmission line that will provide an additional connection to our customers in Fremont County.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. C17-0539-E
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. This project is for the construction of a new Transmission line.
- the proposed location(s);
 - i. Pueblo West to Canon City.
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. N/A
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. Voltage: 115 kV
 - ii. Length: 42 miles
 - iii. MVA: 221 MVA
 - iv. Termination Points: Hogback Substation and West Station
- the estimated planning, development, construction, and total project costs; and
 - i. The project has a total cost of \$53.2 million and has entered service.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. Construction of this project began in 2020. \$44.6 million of the project entered service in February of 2023, while approximately \$3 million entered service in July and August of 2023.
- Work Orders included in this project
 - i. 10055994-CANON WEST REL PJ #205 HB to NPR

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

- ii. 10076411-#250 W Station-North Penrose
- iii. 10077683-ccp-Hogback Tie
- iv. 10081448-West Station Relay Upgrade
- v. 10081735-Divestiture 951 Valley Dr Penrose
- vi. 10081985-Pueblo west tie
- 2023 Rule 3206 reference
 - i. Sheet A-16

6. North Penrose 115 kV Distribution Substation

- the name(s), and function or purpose of the project;
 - i. This project consists of constructing a new substation along the new West Station-Hogback transmission line. The substation will provide an additional point to serve the community of Penrose, while easing constraints on the Portland transformer.
- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. C20-0477
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. Construction of a new substation
- the proposed location(s);
 - i. Penrose, Co
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. Voltage: 115 kV
 - ii. MVA: 50 MVA
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. N/A
- the estimated planning, development, construction, and total project costs; and
 - i. The final cost of the project was approximately \$3.4 million.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. Construction began in 2021, and the project entered service in February of 2023.
- Work Orders included in this project
 - i. 10067000-115kV N. Penrose Substation
- 2023 Rule 3206 reference
 - i. Sheet A-25

7. Hogback 115/69 kV Substation

- the name(s), and function or purpose of the project;
 - i. This project is the termination point of the new West Station-Hogback Transmission line. The substation will decrease the loading issues on the

Advice Letter No. 857
Black Hills Colorado Electric, LLC d/b/a Black Hills Energy
Appendix D – TCA Rider Recovery Projects

existing Portland and Canon City transformers and support the Canon City 69 kV network.

- if one exists, the decision number that granted the utility a CPCN or determined that no CPCN is required;
 - i. C17-0539-E
- whether the project is for construction or expansion of facilities, or whether the project is for the replacement of existing facilities;
 - i. Construction of a new substation along the Hogback-West Station line.
- the proposed location(s);
 - i. Canon City, Co.
- for a substation or related facilities: the voltage level and the MVA rating of transformers and shunt capacitors;
 - i. Voltage: 115 kV
 - ii. MVA: 80 MVA
- for transmission lines: the voltage, the length in miles, the continuous MVA, and the substation termination points;
 - i. N/A
- the estimated planning, development, construction, and total project costs; and
 - i. The final cost of the project was \$3.4 million.
- the projected date for the start of construction, the estimated date of completion, and the estimated in-service date.
 - i. The project entered service in November of 2022.
- Work Orders included in this project
 - i. 10067024-115kV Hogback Substation
- 2023 Rule 3206 reference
 - i. Sheet A-17