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INFORMATION SHEET

PRESIDING: Commissioner Duffley, Presiding; Chair Mitchell, and Commissioners Brown-Bland, Clodfelter, Hughes, McKissick, Jr., and Kemerait
PLACE: Raleigh, NC
DATE: Thursday, August 31, 2023
TIME: 9:34 p.m. to 12:55 p.m.
DOCKET NO.: E-7, Sub 1134 and E-7 Sub 1276
COMPANY: Duke Energy Carolinas, LLC
DESCRIPTION: In the Matter of Duke Energy Carolinas, LLC Application for Approval to Construct a 402 MW Natural Gas-Fired Combustion Turbine Electric Generating Facility in Lincoln County, and for an Application for Adjustment of Rates and Charges Applicable to Electric Service in North Carolina and for Performance-Based Regulation

VOLUME NUMBER: 12

APPEARANCES
See attached

WITNESSES
See attached

EXHIBITS

None attached

REPORTED BY: Renee Habrack
TRANSCRIBED BY: Renee Habrack
DATE FILED: September 8, 2023

TRANSCRIPT PAGES: 158
PREFILED PAGES 908
TOTAL PAGES 1066

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PLACE: Dobbs Building, Raleigh, North Carolina

DATE: Thursday, August 31, 2023

TIME: 9:34 a.m. - 12:55 p.m.

DOCKET NO: E-7, Sub 1134 and E-7, Sub 1276

BEFORE: Commissioner Kimberly W. Duffley, Presiding
Chair Charlotte A. Mitchell
Commissioner ToNola D. Brown-Bland
Commissioner Daniel G. Clodfelter
Commissioner Jeffrey A. Hughes
Commissioner Floyd B. McKissick, Jr.
Commissioner Karen M. Kemerait

IN THE MATTER OF:

Duke Energy Carolinas, LLC

Application for Approval to Construct a 402 MW Natural Gas-Fired Combustion Turbine Electric Generating Facility in Lincoln County

and

Application For Adjustment of Rates and Charges Applicable to Electric Service in North Carolina and for Performance-Based Regulation

VOLUME 12



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A P P E A R A N C E S (Cont'd.)

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Derrick C. Mertz, Esq.,
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William S.F. Freeman, Esq.
William E.H. Creech, Esq.
Thomas Felling, Esq.
Public Staff - North Carolina Utilities Commission
4326 Mail Service Center
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TABLE OF CONTENTS

EXAMINATIONS

PANEL OF LAURA BATEMAN AND PHILLIP STILLMAN	PAGE
Cross Examination by Mr. Freeman.....	21
Redirect Examination by Ms. McGrath.....	28
Examination by Chair Mitchell.....	31
Examination by Commissioner Hughes.....	39
Examination by Commissioner Duffley.....	49
Examination by Commissioner Kemerait.....	50
Examination by Commissioner McKissick.....	52
Examination by Commissioner Duffley.....	55
Examination by Mr. Magarira.....	59
Examination by Mr. Freeman.....	64
MELISSA B. ABERNATHY	PAGE
Prefiled Direct Testimony of ..... Melissa B. Abernathy	82
Prefiled Supplemental Direct ..... Testimony of Melissa B. Abernathy	115
Prefiled Second Supplemental Direct ..... Testimony of Melissa B. Abernathy	126
Prefiled Third Supplemental Direct ..... Testimony of Melissa B. Abernathy	128
Prefiled Settlement Testimony of ..... Melissa B. Abernathy	133
Prefiled Supplemental Settlement ..... Testimony of Melissa B. Abernathy	137

OFFICIAL COPY
Oct 02 2023

Prefiled Summary of Direct and Supplemental Testimony of Melissa B. Abernathy 142

Prefiled Summary of Settlement Testimony of Melissa B. Abernathy 144

Prefiled Summary of Supplemental Settlement Testimony of Melissa B. Abernathy 145

QUYNH PHAM BOWMAN PAGE

Prefiled Direct Testimony of Quynh Pham Bowman 146

Prefiled Supplemental Testimony of Quynh Pham Bowman 195

Prefiled Second Supplemental Direct Testimony of Quynh Pham Bowman 209

Prefiled Third Supplemental Direct Testimony of Quynh Pham Bowman 219

Prefiled Settlement Testimony of Quynh Pham Bowman 229

Prefiled Supplemental Settlement Testimony of Quynh Pham Bowman 245

Prefiled Summary of Direct, Supplemental, and Settlement Testimony of Quynh Pham Bowman 259

Prefiled Summary of Supplemental Settlement Testimony of Quynh Pham Bowman 261

STEVEN D. CAPPS PAGE

Prefiled Direct Testimony of Steven D. Capps 262

Prefiled Rebuttal Testimony of Steven D. Capps 288

OFFICIAL COPY
Oct 02 2023

Prefiled Supplemental Testimony of Steven D. Capps 306

Prefiled Summary of Direct and Supplemental Testimony of Steven D. Capps 313

Prefiled Summary of Rebuttal Testimony of Steven D. Capps 315

DONNA T. COUNCIL PAGE

Prefiled Direct Testimony of Donna T. Council 318

Prefiled Supplemental Direct Testimony of Donna T. Council 330

Prefiled Second Supplemental Testimony of Donna T. Council 336

Prefiled Summary of Direct and Supplemental Testimony of Donna T. Council 338

JANICE D. HAGAR PAGE

Prefiled Direct Testimony of Janice D. Hagar 340

Prefiled Summary of Direct Testimony of Janice D. Hagar 372

TIMOTHY S. HILL PAGE

Prefiled Direct Testimony of Timothy S. Hill 375

RETHA HUNSICKER PAGE

Prefiled Direct Testimony of Retha Hunsicker 405

JEFFREY T. KOPP PAGE

Prefiled Rebuttal Testimony of Jeffrey T. Kopp 418

OFFICIAL COPY
Oct 02 2023

Prefiled Summary of Rebuttal Testimony 436
of Jeffrey T. Kopp

JUSTIN C. LaROCHE PAGE

Prefiled Direct Testimony of 438
Justin C. LaRoche
Prefiled Rebuttal Testimony of 450
Justin C. LaRoche

Prefiled Supplemental Testimony of 452
Justin C. LaRoche
Prefiled Second Supplemental Testimony 460
of Justin C. LaRoche

PANEL OF
MICHAEL QUINTO AND KEVIN MURRAY PAGE
Prefiled Joint Testimony of 465
Michael Quinto and Kevin Murray

Prefiled Rebuttal Testimony of 478
Kevin Murray
Prefiled Summary of Rebuttal Testimony 501
of Kevin Murray

JOHN R. PANIZZA PAGE

Prefiled Direct Testimony of 502
John R. Panizza
Prefiled Summary of Direct Testimony 525
of John R. Panizza

NICHOLAS G. SPEROS PAGE

Prefiled Direct Testimony of 527
Nicholas G. Speros
Prefiled Rebuttal Testimony of 544
Nicholas G. Speros

Prefiled Summary of Direct Testimony 570
of Nicholas G. Speros

OFFICIAL COPY
Oct 02 2023

Prefiled Summary of Rebuttal Testimony 571
of Nicholas G. Speros

JACOB J. STEWART PAGE

Prefiled Direct Testimony of 574
Jacob J. Stewart

Prefiled Rebuttal Testimony of 599
Jacob J. Stewart

MARTIN M. STRASBURGER PAGE

Prefiled Supplemental Direct Testimony 615
of Martin M. Strasburger

BRYAN L. SYKES PAGE

Prefiled Rebuttal Testimony of 621
Bryan L. Sykes

Prefiled Summary of Rebuttal Testimony 630
of Bryan L. Sykes

BRYAN P. WALSH PAGE

Prefiled Direct Testimony of 631
Bryan P. Walsh

Prefiled Supplemental Testimony of 657
Bryan P. Walsh

Prefiled Second Supplemental Testimony 671
of Bryan P. Walsh

Prefiled Rebuttal Testimony of 676
Bryan P. Walsh

Prefiled Summary of Direct, ... 724
Supplemental, and Second Supplemental
Testimony of Bryan P. Walsh

Prefiled Summary of Rebuttal Testimony 726
of Bryan P. Walsh

OFFICIAL COPY
Oct 02 2023

PANEL OF
JAMES McLAWHORN, JORDAN NADER AND DUSTIN METZ PAGE

Direct Examination by Mr. Josey..... 729

Prefiled Corrected Direct Testimony 732
and Appendix A of James S. McLawhorn
Prefiled Summary of Testimony of 746
James S. McLawhorn

Prefiled Corrected Direct Testimony 750
and Appendix A of Jordan A. Nader
Prefiled Summary of Testimony of 779
Jordan A. Nader

Prefiled Corrected Direct Testimony 784
and Appendix A of Dustin Metz
Prefiled Summary of Testimony of 933
Dustin Metz

Cross Examination by Ms. Cress..... 936

Continued Direct Examination by Mr. Josey..... 954

Cross Examination by Mr. Trathen..... 955

Redirect Examination by Mr. Josey..... 970

Redirect Examination by Ms. Luhr..... 972

Examination by Chair Mitchell..... 973

Examination by Commissioner Duffley..... 981

Examination by Mr. Jirak..... 983

Examination by Mr. Magarira..... 987

PANEL OF
FENGE ZHANG AND MICHELLE BOSWELL PAGE
Direct Examination by Ms. Keyworth..... 990

Prefiled Joint Testimony and Appendices A and B of Fenge Zhang and Michelle Boswell 994

Prefiled Summary of Joint Testimony of Fenge Zhang and Michelle Boswell 1055

Cross Examination by Ms. Cress..... 1056

Examination by Commissioner Duffley..... 1058

Examination by Chair Mitchell..... 1062

Examination by Ms. Keyworth..... 1063

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Oct 02 2023

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Oct 02 2023

E X H I B I T S

	IDENTIFIED/ADMITTED
CIGFUR III PIMs Panel Direct and Settlement Cross Exhibit 1	-/67
CIGFUR III PIMs Panel Direct and Settlement Cross Exhibit 2	-/67
PBR Policy Panel Exhibit 1.....	-/68
PBR Policy Panel Exhibit 2.....	-/68
PBR Policy Panel Exhibit 3.....	-/68
PBR Policy Panel Exhibit 4.....	-/68
PBR Policy Panel Supplemental Exhibit 3	-/68
PBR Policy Panel Settlement Exhibit 1	-/68
PBR Policy Panel Settlement Exhibit 3	-/68
PBR Policy Panel Settlement Exhibit 4	-/68
Abernathy Exhibits 1 through 6	-/76
Abernathy Supplemental Exhibits 1 through 4	-/76
Abernathy Second Supplemental Exhibits 1 through 4	-/76
Abernathy Third Supplemental Exhibits 1 through 4	-/76
Abernathy Partial Settlement Exhibits 1 through 4	-/76
Abernathy Supplemental Settlement Exhibits 1 through 4 ..	-/76

OFFICIAL COPY
Oct 02 2023

Q. Bowman Exhibits 1 through 5 ..... -/76
(Confidential - filed under seal)
Q. Bowman Supplemental ..... -/76
Exhibits 1 through 4
(Confidential - filed under seal)
Q. Bowman Second Supplemental ..... -/76
Exhibits 1 through 4
(Confidential - filed under seal)
Q. Bowman Third Supplemental ..... -/76
Exhibits 1 through 4
(Confidential - filed under seal)
Q. Bowman Partial Settlement ..... -/76
Exhibits 1 through 4
(Confidential - filed under seal)
Q. Bowman Supplemental Settlement .. -/76
Exhibits 1 through 5
(Confidential - filed under seal)
Capps Direct Exhibit 1..... -/76
Capps Rebuttal Exhibit 1..... -/76
Capps Supplemental Exhibits 1 and 2. -/76
Council Supplemental ..... -/76
Exhibits 1 and 2
Council Second Supplemental ..... -/76
Exhibits 1 and 2
Hagar Exhibits 1 and 2..... -/76
Hill Exhibits 1 through 8..... -/76
Kopp Rebuttal Exhibit 1..... -/76
LaRoche Direct ..... -/76
Exhibits 1 through 4
(Confidential - filed under seal)

OFFICIAL COPY
Oct 02 2023

LaRoche Supplemental Exhibits ..... -/76
1 through 4
(Confidential - filed under seal)

LaRoche Second Supplemental ..... -/76
1 and 3
(Confidential - filed under seal)

Murray Rebuttal Exhibit 1 ..... -/76
(Confidential - filed under seal)

Speros Exhibits 1 thorugh 3..... -/76

DEC Speros Rebuttal ..... -/76
Exhibits 1 and 2

Stewart Exhibits 1 and 2..... -/76

Strasburger Supplemental Exhibit 1.. -/76

Walsh Exhibit 1..... -/76

Walsh Supplemental Exhibits 1 and 2. -/76

Walsh Second Supplemental ..... -/76
Exhibit 1

Walsh DEC Rebuttal Exhibit 1..... -/76

Metz Exhibits 1 through 5 ..... 783/989
(Confidential - filed under seal)

CIGFUR III McLawhorn Metz Nader 939/989
Direct Cross Exhibit 1

CIGFUR III McLawhorn Metz Nader 941/989
Direct Cross Exhibit 2

CIGFUR III McLawhorn Metz Nader 946/989
Direct Cross Exhibit 3

CIGFUR III McLawhorn Metz Nader 947/989
Direct Cross Exhibit 4

Public Staff Accounting 993/1065
Exhibits 1 through 3
(Confidential - filed under seal)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: JACK E. JIRAK, DEPUTY GENERAL COUNSEL

FIRM NAME: DUKE ENERGY

ADDRESS: 410 S. WILMINGTON ST.

CITY: RALEIGH STATE: NC ZIP CODE: 27602

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

_____ **Yes, I have signed the Confidentiality Agreement.**

Email: JACK.JIRAK@DUKE-ENERGY.COM

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 6/21/2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Jason Higginbotham
Associate General Counsel

FIRM NAME: Duke Energy

ADDRESS:

CITY: STATE: ZIP CODE:

APPEARANCE ON BEHALF OF: Duke Energy Carolinas LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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Email: jason.higginbotham@duke-energy.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7 Sub 1276

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CITY: CHARLOTTE STATE: NC ZIP CODE: 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/23/2023 DOCKET NO.: E-7 Sub 1276

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CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 DOCKET NO.: E-7 Sub 1276

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CITY: Raleigh STATE: NC ZIP CODE: _____

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: x COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 **DOCKET NO.:** E-7, Sub 1276

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FIRM NAME: Troutman Pepper Hamilton and Sanders LLP

ADDRESS: 600 Peachtree Street NE, Suite 3000

CITY: Atlanta **STATE:** GA **ZIP CODE:** 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Melissa Oellerich Butler, Associate

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 600 Peachtreet St. NE Suite 3000

CITY: Atlanta STATE: GA ZIP CODE: 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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SIGNATURE: Melissa Oellerich Butler Digitally signed by Melissa Oellerich Butler Date: 2023.08.22 09:57:11 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Joshua Warren Combs, Associate Attorney

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 600 Peachtree Street, NE, Suite 3000

CITY: Atlanta STATE: GA ZIP CODE: 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Kiran H. Mehta, Partner

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

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CITY: Charlotte STATE: NC ZIP CODE: 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

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SIGNATURE: [signature]

(Signature Required for distribution of CONFIDENTIAL information)

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NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 DOCKET NO.: Docket No. E-7, Sub 1276

ATTORNEY NAME and TITLE: Molly McIntosh Jagannathan, Partner

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CITY: Charlotte STATE: NC ZIP CODE: 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: molly.jagannathan@troutman.com

SIGNATURE: Molly M. Jagannathan Digitally signed by Molly M. Jagannathan DN: CN = Molly M. Jagannathan, email = molly.jagannathan@troutman.com, C = US Date: 2023.08.22 10:14:33 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 23, 2023 **DOCKET NO.:** E-7, SUB 1276

ATTORNEY NAME and TITLE: MELINDA L. MCGRATH, PARTNER

FIRM NAME: TROUTMAN PEPPER HAMILTON SANDERS LLP

ADDRESS: 301 S. COLLEGE STREET; 34TH FLOOR

CITY: CHARLOTTE **STATE:** NC **ZIP CODE:** 28202

APPEARANCE ON BEHALF OF: DUKE ENERGY CAROLINAS, LLC

APPLICANT: XX **COMPLAINANT:** ___ **INTERVENOR:** ___

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

XX **Yes, I have signed the Confidentiality Agreement.**

Email: Mindy.McGrath@troutman.com

SIGNATURE: M McGrath

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Marcus W. Trathen

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 1700 Wells Fargo Capitol Center, 150 Fayetteville St.

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: CUCA

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ **Yes, I have signed the Confidentiality Agreement.**

Email: mtrathen@brookspierce.com

SIGNATURE: /s/ Marcus Trathen

(Required for distribution of CONFIDENTIAL transcript)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/23/2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Matthew B. Tynan

FIRM NAME: Brooks Pierce LLP

ADDRESS: P.O. Box 26000

CITY: Greensboro STATE: NC ZIP CODE: 27420

APPEARANCE ON BEHALF OF: Carolina Utility Customers Association

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

x **Yes, I have signed the Confidentiality Agreement.**

Email: mtynan@brookspierce.com

SIGNATURE: Matthew B Tynan

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Christopher B. Dodd

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 115 N. 3rd St #301

CITY: Wilmington STATE: NC ZIP CODE: 28401

APPEARANCE ON BEHALF OF: CUCA

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: cdodd@brookspierce.com

SIGNATURE: /s/ Christopher Dodd

(Signature Required for distribution of CONFIDENTIAL information)

OFFICIAL COPY

Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 **DOCKET NO.:** E-7, Sub 1276; E-7, Sub 1134

ATTORNEY NAME and TITLE: Christina Cress, Partner; Douglas "D.C." Conant, Associate (Bailey & Dixon, LLP)

Chris S. Edwards, Partner (Ward & Smith, LLP)

FIRM NAME: Bailey & Dixon, LLP (CDC & DC); Ward & Smith, LLP (CSE)

ADDRESS: 434 Fayetteville St., Ste. 2500 (Bailey & Dixon); 127 Racine Drive (Ward & Smith)

CITY: Raleigh (B&D); Wilmington (W&S) **STATE:** NC **ZIP CODE:** 27601 (B&D); 28403 (W&S)

APPEARANCE ON BEHALF OF: CIGFUR III, Haywood EMC, Blue Ridge EMC, Piedmont EMC, and Rutherford EMC

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: ccress@bdixon.com

SIGNATURE: Christina D. Cress Digitally signed by Christina D. Cress Date: 2023.08.22 13:33:10 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/23 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Ethan Blumenthal, Regulatory Counsel

FIRM NAME: North Carolina Sustainable Energy Association

ADDRESS: 4800 Six Forks Rd., Suite 300

CITY: Raleigh STATE: NC ZIP CODE: 27609

APPEARANCE ON BEHALF OF: North Carolina Sustainable Energy Association

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

_____ **Yes, I have signed the Confidentiality Agreement.**

Email: ethan@energync.org

SIGNATURE: Ethan Blumenthal Digitally signed by Ethan Blumenthal Date: 2023.08.21 21:17:22 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** G-7, Sub 1276

ATTORNEY NAME and TITLE: Cassie Gavin, Director of Policy

FIRM NAME: NCSEA

ADDRESS: 4800 Six Forks Rd, Suite 300

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27609

APPEARANCE ON BEHALF OF: NCSEA

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive **CONFIDENTIAL** transcripts and/or exhibits:

☐ **Yes, I have signed the Confidentiality Agreement.**

Email: cassie@energync.org

SIGNATURE: /s/ by KJM: Cassie Gavin

(Signature Required for distribution of CONFIDENTIAL information)

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May 26 2023
OFFICIAL COPY
Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Ben Snowden, Partner

FIRM NAME: Fox Rothschild LLP

ADDRESS: 434 Fayetteville St., Suite 2800

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: North Carolina League of Municipalities

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

x **Yes, I have signed the Confidentiality Agreement.**

Email: bsnowden@foxrothschild.com

SIGNATURE: BSnowden Digitally signed by BSnowden Date: 2023.04.27 16:52:04 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/25/2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE:

Alan Jenkins

FIRM NAME: Jenkins at Law, LLC

ADDRESS: 2950 Yellowtail Ave

CITY: Marathon STATE: FL ZIP CODE: 33050

APPEARANCE ON BEHALF OF: The Commercial Group

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

_____ **Yes, I have signed the Confidentiality Agreement.**

Email: aj@jenkinsatlaw.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 DOCKET NO.: E-7, SUb 1276

ATTORNEY NAME and TITLE: Catherine Cralle Jones

FIRM NAME: Law Offices of F. Bryan Brice, Jr.

ADDRESS: 130 S. Salisbury Street

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Sierra Club

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: cathy@attybryanbrice.com

SIGNATURE: Catherine Cralle Jones

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Andrea C. Bonvecchio

FIRM NAME: Law Offices of F. Bryan Brice, Jr.

ADDRESS: 130 S. Salisbury Street

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Sierra Club

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: andrea@attybryanbrice.com

SIGNATURE: Andrea Bonvecchio

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: David L. Neal, Senior Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 West Rosemary Street, Suite 220

CITY: Chapel Hill STATE: North Carolina ZIP CODE: 27516

APPEARANCE ON BEHALF OF:

North Carolina Justice Center, North Carolina Housing Coalition, Southern Alliance for Clean Energy, Natural Resources Defense Council, and Vote Solar (NCJC, et al.)

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: dneal@selcnc.org

SIGNATURE: 2023.08.23 12:33:09 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/28/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Munaashe Magarira, Staff Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 W Rosemary Street, Suite 220

CITY: Chapel Hill STATE: NC ZIP CODE: 27516

APPEARANCE ON BEHALF OF: North Carolina Justice Center, North Carolina Housing Coalition, Natural Resources Defense Council, Southern Alliance for Clean Energy, and Vote Solar

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

x **Yes, I have signed the Confidentiality Agreement.**

Email: mmagarira@selcnc.org

SIGNATURE: Digitally signed by Munaashe Magarira Date: 2023.09.22 09:28:18 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 05/04/2023 DOCKET NO.: E-2 Sub 1300

ATTORNEY NAME and TITLE: Thomas Gooding, Associate Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 W. Rosemary Street, Suite 220

CITY: Chapel Hill STATE: NC ZIP CODE: 27516

APPEARANCE ON BEHALF OF: North Carolina Justice Center, North Carolina Housing Coalition, Natural Resources Defense Council, Southern Alliance for Clean Energy, and Vote Solar

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: tgooding@selcnc.org

SIGNATURE: Thomas Gooding Digitally signed by Thomas Gooding Date: 2023.04.28 12:46:36 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/22/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Matthew D. Quinn, Partner

FIRM NAME: Lewis & Roberts, PLLC

ADDRESS: P. O. Box 17529

CITY: Raleigh STATE: NC ZIP CODE: 27619

APPEARANCE ON BEHALF OF: NC WARN

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

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Email: _____

SIGNATURE: _____

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Kurt Boehm

FIRM NAME: Boehm, Kurtz & Lowry

ADDRESS: 36 East Seventh Street, Suite 1510

CITY: Cincinnati STATE: Ohio ZIP CODE: 45202

APPEARANCE ON BEHALF OF: Kroger Co. and Harris Teeter

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

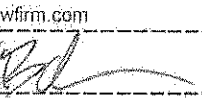
PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

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ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: kboehm@bkllawfirm.com

SIGNATURE: 

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 25, 2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Jody Kyler Cohn, Esq.

FIRM NAME: Boehm, Kurtz & Lowry

ADDRESS: 36 East 7th Street, Suite 1510

CITY: Cincinnati STATE: Ohio ZIP CODE: 45202

APPEARANCE ON BEHALF OF: The Kroger Company

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

_____ **Yes, I have signed the Confidentiality Agreement.**

Email: _____

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/25/2023 DOCKET NO.: E-2 Sub1300

ATTORNEY NAME and TITLE: Benjamin M. Royster, Attorney

FIRM NAME: Royster & Royster PLLC

ADDRESS: 851 Marshall St.

CITY: Mt. Airy STATE: NC ZIP CODE: 27030

APPEARANCE ON BEHALF OF: Kroger Co. and Harris Teeter

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

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_____ **Yes, I have signed the Confidentiality Agreement.**

Email: _____

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Marcus W. Trathen

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 1700 Wells Fargo Capitol Center, 150 Fayetteville St.

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27601

APPEARANCE ON BEHALF OF: Andale, LLC

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab and select Docket Search, enter the docket number and click search, select the highlighted docket number and select Documents for a list of all documents filed.

To receive an electronic **CONFIDENTIAL** transcript, please complete the following:

☒ **Yes, I have signed the Confidentiality Agreement.**

Email: mtrathen@brookspierce.com

SIGNATURE: /s/ Marcus Trathen

(Required for distribution of CONFIDENTIAL transcript)

OFFICIAL COPY

Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Tirrill Moore

Assistant Attorney General

FIRM NAME: North Carolina Attorney General's Office

ADDRESS: 114 West Edenton Street

CITY: Raleigh STATE: NC ZIP CODE: 27602

APPEARANCE ON BEHALF OF: The using and consuming public; the State and its citizens

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: temoore@ncdoj.gov

SIGNATURE: [signature]

(Signature Required for distribution of CONFIDENTIAL information)

OFFICIAL COPY

Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Derrick C. Mertz, Special Deputy Attorney General;

FIRM NAME: North Carolina Department of Justice

ADDRESS: 114 W. Edenton Steet

CITY: Raleigh STATE: NC ZIP CODE: 27603

APPEARANCE ON BEHALF OF: The using and consuming public pursuant to N.C.G.S. sec. 62-20, and on behalf of the State of North Carolina and its citizens pursuant to N.C.G.S. sec. 114-2(8)

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, select Docket Search, enter the docket number, and click search, select the highlighted docket number and select Documents for a list of all documents filed.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

X **Yes, I have signed the Confidentiality Agreement.**

Email: dmertz@ncdoj.gov

SIGNATURE: Derrick Mertz Digitally signed by Derrick Mertz Date: 2023.08.23 15:26:03 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

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Oct 02 2023

NORTH CAROLINA UTILITIES COMMISSION
PUBLIC STAFF - APPEARANCE SLIP

DATE August 28, 2023 DOCKET #: E-7, Sub 1276

PUBLIC STAFF ATTORNEY Lucy E. Edmondson; Robert B. Josey; Nadia L. Luhr; Thomas J. Felling; William E. H. Creech; William S.F. Freeman; Anne M. Keyworth

TO REQUEST A **CONFIDENTIAL** TRANSCRIPT, PLEASE PROVIDE YOUR EMAIL ADDRESS BELOW:

ACCOUNTING

CONSUMER SERVICES

COMMUNICATIONS

ENERGY

ECONOMICS

LEGAL lucy.edmondson@psncuc.nc.gov; robert.josey@psncuc.nc.gov; nadia.luhr@psncuc.nc.gov; thomas.felling@psncuc.nc.gov; zeke.creech@psncuc.nc.gov; william.freeman@psncuc.nc.gov; anne.keyworth@psncuc.nc.gov

TRANSPORTATION

WATER

Non-confidential transcripts are located on the Commission's website. To view and/or print, please access https://www.ncuc.net/.

COUNSEL/MEMBER(s) REQUESTING A **CONFIDENTIAL** TRANSCRIPT WHO HAS SIGNED A CONFIDENTIALITY AGREEMENT WILL NEED TO SIGN BELOW.

/s/ Lucy E. Edmondson

/s/ Robert B. Josey

/s/ Nadia L. Luhr

/s/ Thomas J. Felling

/s/ William E. H. Creech

/s/ William Freeman /s/ Anne M. Keyworth

DUKE ENERGY CAROLINAS
MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness **Steven Capps**
Exhibit **1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	Catawba Nuclear Station Main Step-Up Transformer Replacement	Nuclear Plant in Service	Oct-24	Replace the Catawba Nuclear Station '1A' main step-up (MSU) transformer.	The Catawba '1A' MSU transformer has reached the end of its service life and needs to be replaced to support continued safe and reliable operations of Catawba Unit 1. A failure of the MSU transformer would result in an extended forced outage and could result in damage to surrounding equipment	$ 4,003,909	$ (10,000)	$ 4,794
2	Catawba Nuclear Station Unit 1 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant in Service	Oct-24	Replace the existing Catawba Nuclear Station Unit 1 high pressure turbine (HPT) nozzles and diaphragms.	The Catawba Unit 1 HPT has been experiencing wear on the nozzles and diaphragms since 2015, which is attr buted to age-related degradation over the life cycle of this original plant equipment. If these nozzles and diaphragms are not replaced, the Catawba Unit 1 HPT will experience additional losses in HPT efficiency and will impact the ability of downstream equipment to operate in the most effective and efficient manner. Additionally, the replacement of these nozzles and diaphragms will allow for continued reliable operation of Catawba Unit 1 in the future.	$ 3,369,410	$ -	$ 332

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3	Catawba Nuclear Station Unit 1 Protective Relay Replacements	Nuclear Plant in Service	Dec-24	Replace the Catawba Nuclear Station Unit 1 Zones A and B protective relays with new multifunction digital relays during the 2023 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 1.	$ 1,302,455	$ -	$ 84,964
4	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Motors Replacement	Nuclear Plant in Service	Oct-24	Replace the Catawba Nuclear Station '1B' and '1C' reactor coolant pump (NCP) motors.	The reactor coolant pumps are required to ensure safe and reliable operations of Catawba Unit 1. The NCP motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 1,211,914	$ -	$ 153,600

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5	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2024)	Nuclear Plant in Service	Oct-24	Replace the Catawba Nuclear Station Unit 1 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment during the 2024 refueling outage.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 229,634	$ -	$ -
6	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2026)	Nuclear Plant in Service	Apr-26	Replace the Catawba Nuclear Station Unit 1 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment during the 2026 refueling outage.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 247,291	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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7	Catawba Nuclear Station Unit 2 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant in Service	Apr-24	Replace the existing Catawba Nuclear Station Unit 2 high pressure turbine (HPT) nozzles and diaphragms.	The Catawba Unit 2 HPT has been experiencing wear on the nozzles and diaphragms since 2015, which is attr buted to age-related degradation over the life cycle of this original plant equipment. If these nozzles and diaphragms are not replaced, the Catawba Unit 2 HPT will experience additional losses in HPT efficiency and will impact the ability of downstream equipment to operate in the most effective and efficient manner. Additionally, the replacement of these nozzles and diaphragms will allow for continued reliable operation of Catawba Unit 2 in the future.	$ 2,530,494	$ -	$ -
8	Catawba Nuclear Station Unit 2 Nuclear Service Water Pumps Replacement	Nuclear Plant in Service	Oct-25	Replace the Catawba Nuclear Station Unit 2 nuclear service water (RN) pumps	The RN pumps are required to safely operate the plant and are replaced on an eight refueling cycle frequency in order to ensure reliability. If the RN pumps become inoperable and extended unit shudown is required to make emergent repairs. The replacement of these pumps is a preventive maintenance activity to ensure continued safe and reliable operations of the station.	$ 280,573	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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9	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2024)	Nuclear Plant in Service	Apr-24	Replace the Catawba Nuclear Station Unit 2 Zones A and B protective relays with new multifunction digital relays during the 2024 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 2.	$ 1,178,796	$ -	$ -
10	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2025)	Nuclear Plant in Service	Oct-25	Replace the Catawba Nuclear Station Unit 2 Zones A and B protective relays with new multifunction digital relays during the 2025 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 2.	$ 1,416,459	$ -	$ 72,009
11	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Motors Replacement	Nuclear Plant in Service	Apr-24	Replace the Catawba Nuclear Station '2A' and '2C' reactor coolant pump (NCP) motors.	The reactor coolant pumps are required to ensure safe and reliable operations of Catawba Unit 2. The NCP motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 1,217,037	$ -	$ 307,200

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DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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12	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Seals Replacement	Nuclear Plant in Service	Oct-25	Replace the Catawba Nuclear Station Unit 2 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 235,587	$ -	$ -
13	Fleet Firewall Replacement	Nuclear Plant in Service	Dec-25	Replace the Adaptive Security Appliance (ASA) 5555-X firewalls at each of the Duke Energy Carolinas (DEC) sites (Catawba, McGuire, and Oconee).	This project will upgrade the existing firewall used for all Duke Energy nuclear stations in both the DEC and DEP fleets with a new firewall meeting the latest cyber security requirements. The new firewall maintains cyber security of digital assets and allows for continued compliance with cyber security regulations.	$ 19,854,388	$ -	$ -

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MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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14	Fleet Operational Data Process Book Replacement	Nuclear Plant in Service	Dec-25	Replace the Operational Data Process Book software at each of the Duke Energy Carolinas (DEC) nuclear sites (Catawba, McGuire, and Oconee).	The Process Book application is used by all nuclear departments (e.g., engineering, operations, maintenance, etc.) to track and analyze station system and equipment performance using real-time data. The existing software is obsolete, and the vendor no longer provides technical support. This upgrade will replace the software that is currently in use with a version that can receive vendor technical support and be updated with the latest cyber security patches. Note, this upgrade will also be applied to the Duke Energy Progress (DEP) nuclear stations (Brunswick, Harris, and Robinson).	$ 15,985,914	$ -	$ -
15	McGuire Nuclear Station Ice Condenser Refrigeration	Nuclear Plant in Service	Dec-24	Replace the McGuire Nuclear Station ice condenser refrigeration (NF) chillers	The NF chillers are degraded and are beyond their recommended service life. These chillers maintain ice bed temperatures within Technical Specification (TS) limits. Failure of the chillers could lead to exceeding the TS limit for ice bed temperature, requiring shutdown. In addition, failure of the chillers leads to freeze-thaw cycles that damage the ice and the supporting ice bed structure, which require extensive maintenance repairs during refueling outages. In order to maintain reliability of the ice condenser system, and allow continued operations into the future, replacement of this equipment is required.	$ 5,989,942	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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16	McGuire Nuclear Station Unit 1 Moisture Separator Reheaters Replacement	Nuclear Plant in Service	Dec-26	Replace the six moisture separator reheaters (MSRs) at McGuire Nuclear Station Unit 1.	The McGuire Unit 1 MSRs have operated beyond their recommended design life and require replacement due to equipment degradation primarily caused by steam cutting on the internal components. Failure of an MSR would lead to a unit derate and an extended shutdown for repair, as well as creating a risk of debris traveling downstream and damaging the turbine. Replacing the MSRs would reset the life of the equipment and to allow reliable operation in the future. In addition, replacing the MSRs allows for a reduced equipment inspection frequency and is anticipated to result in a 8-10 MW recapture of thermal efficiency losses.	$ 54,756,802	$ -	$ -
17	McGuire Nuclear Station Unit 1 Nuclear Service Water Pump Motor Inspections and Replacement	Nuclear Plant in Service	Apr-25	Inspection and replacement of the McGuire Nuclear Station Unit 1 nuclear service water (RN) pump motors.	The RN pump motors are safety-related equipment required to safely operate the plant. These motors are reaching the end of their 15-year replacement interval and a failure to replace the motors will lead to an increased likelihood of the plant experiencing an unplanned derate or shutdown. Replacement of these motors is required to ensure continued safe and reliable operations.	$ 2,316,328	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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18	McGuire Nuclear Station Unit 1 Polar Crane Motor and Controls Upgrade	Nuclear Plant in Service	Jul-24	Replace the McGuire Nuclear Station Unit 1 polar crane motors and controls with upgraded controls, controllers, and motors.	The polar crane motors and controls are obsolete and replacement parts are no longer available. The cranes have been experiencing an increase in parts failures and malfunctions due to the age-related degradation of the equipment. These cranes are required to execute work during refueling outages and a failure of the motors or controls could lead to unplanned refueling outage extensions due to the need to make emergent repairs.	$ 8,484,482	$ -	$ -
19	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement	Nuclear Plant in Service	Sep-26	Replacement of the McGuire Nuclear Station '1A' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 1.	$ 1,408,130	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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20	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement	Nuclear Plant in Service	Mar-25	Replacement of the McGuire Nuclear Station '1C' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 1.	$ 1,328,868	$ -	$ -
21	McGuire Nuclear Station Unit 1 Turbine Controls Replacement	Nuclear Plant in Service	May-25	Replace the McGuire Nuclear Station Unit 1 turbine controls system (TCS)	The existing TCS was installed in 1990. In 2009 an engineering vulnerability assessment identified 26 components in the main turbine control system per operating unit as single point vulnerabilities (SPVs). These have resulted in previous unit trips, operation at reduced power, and load swings. The replacement of the Unit 1 TCS will eliminate the SPVs and allow for continued reliable operation.	$ 13,092,286	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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22	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	Nuclear Plant in Service	Sep-24	Inspection and replacement of the McGuire Nuclear Station Unit 2 component cooling (KC) pump motors.	The KC pump motors are required to safely operate the plant and the motors have been operating beyond the industry recommended time. Failure to replace the motors will lead to a failure and the plant will enter a 72-hour technical specification (TS) action. Due to the location and difficulty in accessing these motors, it is anticipated that repairs cannot be made within the 72-hour window and an unplanned shutdown would be required. Replacement of these motors is required to ensure continued safe and reliable operations.	$ 2,581,220	$ -	$ -
23	McGuire Nuclear Station Unit 2 Lower Containment 2B and 2C Air Handling Unit Coils Replacement	Nuclear Plant in Service	Apr-26	Replace the McGuire Nuclear Station Unit 2 lower containment component vent '2B' and '2C' air handling unit (AHU) coils.	The containment lower compartment ventilation system (VL) is required in order to meet Technical Specification (TS) temperature limits for lower containment. Failure to maintain the VL air handlers will eventually lead to excessive leakage caused by flow accelerated corrosion and could result in an unplanned shutdown if the TS temperature limits cannot be met. AHU coil leakage has been degrading as the equipment ages and replacement is needed to ensure reliabilty of the system and avoid unplanned generation losses.	$ 4,887,503	$ -	$ -

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MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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24	McGuire Nuclear Station Unit 2 Lower Containment 2D Air Handling Unit Coils Replacement	Nuclear Plant in Service	Sep-24	Replace the McGuire Nuclear Station Unit 2 lower containment component vent '2D' air handling unit (AHU) coils	The containment lower compartment ventilation system (VL) is required in order to meet Technical Specification (TS) temperature limits for lower containment. Failure to maintain the VL air handlers will eventually lead to excessive leakage caused by flow accelerated corrosion and could result in an unplanned shutdown if the TS temperature limits cannot be met. AHU coil leakage has been degrading as the equipment ages and replacement is needed to ensure reliabilty of the system and avoid unplanned generation losses.	$ 3,784,693	$ -	$ -
25	McGuire Nuclear Station Unit 2 Moisture Separator Reheaters Replacement	Nuclear Plant in Service	Dec-26	Replace the six moisture separator reheaters (MSRs) at McGuire Nuclear Station Unit 2.	The McGuire Unit 2 MSRs have operated beyond their recommended design life and require replacement due to equipment degradation primarily caused by steam cutting on the internal components. Failure of an MSR would lead to a unit derate and an extended shutdown for repair, as well as creating a risk of debris traveling downstream and damaging the turbine. Replacing the MSRs would reset the life of the equipment and to allow reliable operation in the future. In addition, replacing the MSRs allows for a reduced equipment inspection frequency and is anticipated to result in a 8-10 MW recapture of thermal efficiency losses.	$ 47,255,148	$ -	$ -

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MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

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Exhibit 1

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26	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2C Replacement	Nuclear Plant in Service	Sep-24	Replacement of the McGuire Nuclear Station '2C' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 2.	$ 1,331,952	$ -	$ -
27	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2D Replacement	Nuclear Plant in Service	Mar-26	Replacement of the McGuire Nuclear Station '2D' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 2.	$ 1,408,025	$ -	$ -

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MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

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Exhibit **1**

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28	Oconee Nuclear Station Feedwater Heaters Replacement	Nuclear Plant in Service	May-24	Replace the Oconee Nuclear Station Unit 3 '3A1' and '3B2' high pressure feedwater heaters (FWH).	The 3A1/3B2 feedwater heaters at Oconee Nuclear Station are original equipment and have operated beyond their design life. These feedwater heaters are carbon steel and an outlier in the industry (most feedwater heaters are stainless steel). In 2014 the Oconee Unit 1 '1A2' FWH, which has the same design, failed resulting in an unplanned outage and an extended unplanned unit derate until replacement could be completed. Additionally, a FWH failure could send debris downstream, damaging other components. Replacement of the 3A1/3B2 FWHs is required to ensure continued reliabile operations of Oconee Unit 3.	$ 17,468,302	$ -	$ -
29	Oconee Nuclear Station Unit 1 Alloy 600 Nozzles Replacement	Nuclear Plant in Service	Nov-24	Replace nozzles made from an Alloy 600 material on the primary coolant piping at Oconee Nuclear Station Unit 1.	Primary water stress corrosion cracking (PWSCC) associated with Alloy 600 components is a known issue in the nuclear power generation industry. The Oconee Unit 1 flow meter weld bosses are nozzles that are subject to PWSCC development. A failure of these nozzles require an unplanned outage to repair the piping and continue to be operational. Proactive replacement is needed for these nozzles to prevent failure and ensure continued reliable operation of Oconee Unit 1.	$ 8,367,056	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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30	Oconee Nuclear Station Unit 1 Reactor Coolant Pump Motor Replacement	Nuclear Plant in Service	Dec-24	Replace the Oconee Nuclear Station Unit 1 reactor coolant pump (RCP) motor	The reactor coolant pumps are required to ensure safe and reliable operations of Oconee Unit 3. The motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 2,179,849	$ -	$ -
31	Oconee Nuclear Station Unit 3 Alloy 600 Nozzles Replacement	Nuclear Plant in Service	May-24	Replace nozzles made from an Alloy 600 material on the primary coolant piping at Oconee Nuclear Station Unit 3.	Primary water stress corrosion cracking (PWSCC) associated with Alloy 600 components is a known issue in the nuclear power generation industry. The Oconee Unit 3 resistance temperature elements (RTEs) are nozzles that are subject to PWSCC development. A failure of an RTE requires an unplanned outage to repair the piping and continue to be operational. Proactive replacement is needed for these nozzles to prevent failure and ensure continued reliable operation of Oconee Unit 3.	$ 8,677,495	$ -	$ -
32	Oconee Nuclear Station Unit 3 Reactor Coolant Pump Motor Replacement	Nuclear Plant in Service	Dec-24	Replace the Oconee Nuclear Station Unit 3 reactor coolant pump (RCP) motor	The reactor coolant pumps are required to ensure safe and reliable operations of Oconee Unit 3. The motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 2,334,948	$ -	$ -

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DOCKET NO. E-7 Sub 1276

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Exhibit 1

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33	Oconee Subsequent License Renewal	Nuclear Plant in Service	Feb-24	The development, submittal, review, and approval of a Subsequent License Renewal (SLR) Request for the Oconee Nuclear Station that will allow for operations of each operating unit up to 80 years.	Obtaining subsequent license renewal for all three of the Oconee Nuclear Station operating units provides Duke Energy with a strategic position for the future operations of the station beyond the 2033-2034 timeframe. SLR approval provides Duke Energy with the ability to utilize existing carbon free generation for up to an additional 20 years beyond the current license.	$ 50,049,523	$ -	$ -
	TOTALS					**$ 290,766,410**	**$ (10,000)**	**$ 622,899**

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Oct 02 2023

	Capps Supplemental Exhibit 1 Line No.	Capps Supplemental Exhibit 1 Forecasted In-Service Date	Funding Project Number	Project Name	Notes
1.	9	October 2024	CN0016924	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2024)	The nuclear fleet routinely executes work to maintain reactor coolant pumps and motors. Reactor coolant pump seals are periodically replaced to ensure reliability of a critical component. This work is consistent across the DEC sites, with a well-defined scope and cost based on the nuclear fleet's operating experience. Typically, for pumps with Westinghouse seals, at least one reactor coolant pump seal is replaced per refueling outage. Each seal is replaced every four refueling outages. When more than one seal is replaced in a refueling outage it is done due to address seal performance. There have been approximately 35 seal replacement projects executed since 2007 across the combined DEC and DEP fleet.
2.	10	April 2026	CN0016926	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2026)	
3.	11	October 2025	CN0016D25	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Seals Replacement	
4.	19	November 2026	MC00B6LN	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement	
5.	18	May 2025	MC00B6JN	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement	
6.	28	April 2026	MC00837N	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2B Replacement	

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	Capps Supplemental Exhibit 1 Line No.	**Capps Supplemental Exhibit 1 Forecasted In-Service Date**	**Funding Project Number**	**Project Name**	**Notes**
7.	26	December 2024	ON00C4GN	Oconee Unit 1 Reactor Coolant Pump Motor Replacement	The nuclear fleet routinely executes reactor coolant pump motor replacements to ensure continued reliability of a critical component. These motors have an 18-year replacement and refurbishment frequency. At Oconee, for example, there are four reactor coolant pumps per unit. Over an 18-year period four of the nine refueling outages at Oconee would include a reactor coolant pump motor replacement.
8.	25	December 2024	ON00C4FN	Oconee Unit 3 Reactor Coolant Pump Motor Replacement	
9.	20	September 2024	M1KC2A2N	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	McGuire is in the process of inspecting and replacing multiple component cooling motors across both units. Four projects to replace these motors were completed between 2017 and 2020. There are a total of eight Component Cooling Water motors at McGuire Nuclear Station. The scope, cost, and schedule for this work is well defined based on fleet experience replacing this equipment.

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	Capps Supplemental Exhibit 1 Line No.	Capps Supplemental Exhibit 1 Forecasted In-Service Date	Funding Project Number	Project Name	Notes
10.	16	September 2024	MC00BS8N	McGuire Nuclear Station Unit 2 Lower Containment 2D Air Handling Unit Coils Replacement	McGuire is in the process of replacing multiple lower containment air handling unit coils for both units. Three of the coils have already been replaced between 2022 and 2023. There are a total of eight Lower Containment Air Handling Units at McGuire Nuclear Station. The scope, cost, and schedule for this activity is well defined and the experience from the past replacements is being carried over to this project.
11.	24	November 2024	OSAFEFM1N	Oconee Unit 1 Alloy 600 Nozzles Replacement	Alloy 600 projects are a design change that has been executed in small batches at Oconee since 2014. The design, project scope, and costs are well known based on Oconee's experience successfully executing Alloy 600 projects. The Company has completed more than two dozen Alloy 600 projects across the fleet (14 of which were at Oconee).
12.	23	May 2024	O600RTE3N	Oconee Unit 3 Alloy 600 Nozzles Replacement	

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DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	Catawba Nuclear Station Unit 1 Protective Relay Replacements	Nuclear Plant In Service	Oct-24	Replace the Catawba Nuclear Station Unit 1 Zones A and B protective relays with new multifunction digital relays during the 2023 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 1.	$ 1,134,224	$ -	$ 84,056
2	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2024)	Nuclear Plant In Service	Apr-24	Replace the Catawba Nuclear Station Unit 2 Zones A and B protective relays with new multifunction digital relays during the 2024 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 2.	$ 973,246	$ -	$ -
3	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2025)	Nuclear Plant In Service	Oct-25	Replace the Catawba Nuclear Station Unit 2 Zones A and B protective relays with new multifunction digital relays during the 2025 refueling outage.	The main power protective relays are the original electromechanical relays installed during plant construction, have reached end of life, and become obsolete. These relays are being replaced to comply with NERC Standard PRC-005-2 (FERC Order No. 793). The new relay design is more robust and will improve the relays' reliability to help ensure continued reliable operation of Catawba Unit 2.	$ 870,431	$ -	$ -
4	Catawba Nuclear Station Main Step-Up Transformer Replacement	Nuclear Plant In Service	Oct-24	Replace the Catawba Nuclear Station '1A' main step-up (MSU) transformer.	The Catawba '1A' MSU transformer has reached the end of its service life and needs to be replaced to support continued safe and reliable operations of Catawba Unit 1. A failure of the MSU transformer would result in an extended forced outage and could result in damage to surrounding equipment	$ 5,064,726	$ -	$ 4,926
5	Catawba Nuclear Station Unit 2 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant In Service	Apr-24	Replace the existing Catawba Nuclear Station Unit 2 high pressure turbine (HPT) nozzles and diaphragms.	The Catawba Unit 2 HPT has been experiencing wear on the nozzles and diaphragms since 2015, which is attributed to age-related degradation over the life cycle of this original plant equipment. If these nozzles and diaphragms are not replaced, the Catawba Unit 2 HPT will experience additional losses in HPT efficiency and will impact the ability of downstream equipment to operate in the most effective and efficient manner. Additionally, the replacement of these nozzles and diaphragms will allow for continued reliable operation of Catawba Unit 2 in the future.	$ 4,109,664	$ -	$ -
6	Catawba Nuclear Station Unit 1 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant In Service	Oct-24	Replace the existing Catawba Nuclear Station Unit 1 high pressure turbine (HPT) nozzles and diaphragms.	The Catawba Unit 1 HPT has been experiencing wear on the nozzles and diaphragms since 2015, which is attributed to age-related degradation over the life cycle of this original plant equipment. If these nozzles and diaphragms are not replaced, the Catawba Unit 1 HPT will experience additional losses in HPT efficiency and will impact the ability of downstream equipment to operate in the most effective and efficient manner. Additionally, the replacement of these nozzles and diaphragms will allow for continued reliable operation of Catawba Unit 1 in the future.	$ 4,586,904	$ -	$ 665
7	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Motors Replacement	Nuclear Plant In Service	May-24	Replace the Catawba Nuclear Station '1B' and '1C' reactor coolant pump (NCP) motors.	The reactor coolant pumps are required to ensure safe and reliable operations of Catawba Unit 1. The NCP motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 1,511,135	$ -	$ 153,968
8	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Motors Replacement	Nuclear Plant In Service	Apr-24	Replace the Catawba Nuclear Station '2A' and '2C' reactor coolant pump (NCP) motors.	The reactor coolant pumps are required to ensure safe and reliable operations of Catawba Unit 2. The NCP motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 1,496,341	$ -	$ 105,853
9	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2024)	Nuclear Plant In Service	Oct-24	Replace the Catawba Nuclear Station Unit 1 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment during the 2024 refueling outage.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 229,428	$ -	$ -
10	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2026)	Nuclear Plant In Service	Apr-26	Replace the Catawba Nuclear Station Unit 1 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment during the 2026 refueling outage.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 296,290	$ -	$ -
11	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Seals Replacement	Nuclear Plant In Service	Oct-25	Replace the Catawba Nuclear Station Unit 2 reactor coolant pump (NCP) seals as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of Catawba Unit 1.	$ 282,354	$ -	$ -
12	McGuire Nuclear Station Unit 1 Polar Crane Motor and Controls Upgrade	Nuclear Plant In Service	Jul-24	Replace the McGuire Nuclear Station Unit 1 polar crane motors and controls with upgraded controls, controllers, and motors.	The polar crane motors and controls are obsolete and replacement parts are no longer available. The cranes have been experiencing an increase in parts failures and malfunctions due to the age-related degradation of the equipment. These cranes are required to execute work during refueling outages and a failure of the motors or controls could lead to unplanned refueling outage extensions due to the need to make emergent repairs.	$ 7,688,912	$ -	$ -

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DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

						Total Project Amount (System)		
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
13	McGuire Nuclear Station Unit 1 Moisture Separator Reheaters Replacement	Nuclear Plant In Service	Oct-26	Replace the six moisture separator reheaters (MSRs) at McGuire Nuclear Station Unit 1.	The McGuire Unit 1 MSRs have operated beyond their recommended design life and require replacement due to equipment degradation primarily caused by steam cutting on the internal components. Failure of an MSR would lead to a unit derate and an extended shutdown for repair, as well as creating a risk of debris traveling downstream and damaging the turbine. Replacing the MSRs would reset the life of the equipment and to allow reliable operation in the future. In addition, replacing the MSRs allows for a reduced equipment inspection frequency and is anticipated to result in a 8-10 MW recapture of thermal efficiency losses.	$ 56,546,021	$ -	$ -
14	McGuire Nuclear Station Ice Condenser Refrigeration	Nuclear Plant In Service	Dec-25	Replace the McGuire Nuclear Station ice condenser refrigeration (NF) chillers	The NF chillers are degraded and are beyond their recommended service life. These chillers maintain ice bed temperatures within Technical Specification (TS) limits. Failure of the chillers could lead to exceeding the TS limit for ice bed temperature, requiring shutdown. In addition, failure of the chillers leads to freeze-thaw cycles that damage the ice and the supporting ice bed structure, which require extensive maintenance repairs during refueling outages. In order to maintain reliability of the ice condenser system, and allow continued operations into the future, replacement of this equipment is required.	$ 6,951,052	$ -	$ -
15	McGuire Nuclear Station Unit 2 Lower Containment 2B and 2C Air Handling Unit Coils Replacement	Nuclear Plant In Service	Apr-26	Replace the McGuire Nuclear Station Unit 2 lower containment component vent '2B' and '2C' air handling unit (AHU) coils.	The containment lower compartment ventilation system (VL) is required in order to meet Technical Specification (TS) temperature limits for lower containment. Failure to maintain the VL air handlers will eventually lead to excessive leakage caused by flow accelerated corrosion and could result in an unplanned shutdown if the TS temperature limits cannot be met. AHU coil leakage has been degrading as the equipment ages and replacement is needed to ensure reliabilty of the system and avoid unplanned generation losses.	$ 5,686,341	$ -	$ -
16	McGuire Nuclear Station Unit 2 Lower Containment 2D Air Handling Unit Coils Replacement	Nuclear Plant In Service	Sep-24	Replace the McGuire Nuclear Station Unit 2 lower containment component vent '2D' air handling unit (AHU) coils	The containment lower compartment ventilation system (VL) is required in order to meet Technical Specification (TS) temperature limits for lower containment. Failure to maintain the VL air handlers will eventually lead to excessive leakage caused by flow accelerated corrosion and could result in an unplanned shutdown if the TS temperature limits cannot be met. AHU coil leakage has been degrading as the equipment ages and replacement is needed to ensure reliabilty of the system and avoid unplanned generation losses.	$ 4,446,868	$ -	$ -
17	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2C Replacement	Nuclear Plant In Service	Oct-24	Replacement of the McGuire Nuclear Station '2C' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 2.	$ 1,129,915	$ -	$ -
18	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement	Nuclear Plant In Service	May-25	Replacement of the McGuire Nuclear Station '1C' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 1.	$ 1,126,721	$ -	$ -
19	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement	Nuclear Plant In Service	Nov-26	Replacement of the McGuire Nuclear Station '1A' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 1.	$ 1,130,765	$ -	$ -
20	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	Nuclear Plant In Service	Sep-24	Inspection and replacement of the McGuire Nuclear Station Unit 2 component cooling (KC) pump motors.	The KC pump motors are required to safely operate the plant and the motors have been operating beyond the industry recommended time. Failure to replace the motors will lead to a failure and the plant will enter a 72-hour technical specification (TS) action. Due to the location and difficulty in accessing these motors, it is anticipated that repairs cannot be made within the 72-hour window and an unplanned shutdown would be required. Replacement of these motors is required to ensure continued safe and reliable operations.	$ 2,421,982	$ -	$ -
21	McGuire Nuclear Station Unit 1 Nuclear Service Water Pump Motor Inspections and Replacement	Nuclear Plant In Service	Apr-25	Inspection and replacement of the McGuire Nuclear Station Unit 1 nuclear service water (RN) pump motors.	The RN pump motors are safety-related equipment required to safely operate the plant. These motors are reaching the end of their 15-year replacement interval and a failure to replace the motors will lead to an increased likelihood of the plant experiencing an unplanned derate or shutdown. Replacement of these motors is required to ensure continued safe and reliable operations.	$ 4,182,199	$ -	$ -
22	Oconee Nuclear Station Feedwater Heaters Replacement	Nuclear Plant In Service	May-24	Replace the Oconee Nuclear Station Unit 3 '3A1' and '3B2' high pressure feedwater heaters (FWH).	The 3A1/3B2 feedwater heaters at Oconee Nuclear Station are original equipment and have operated beyond their design life. These feedwater heaters are carbon steel and an outlier in the industry (most feedwater heaters are stainless steel). In 2014 the Oconee Unit 1 '1A2' FWH, which has the same design, failed resulting in an unplanned outage and an extended unplanned unit derate until replacement could be completed. Additionally, a FWH failure could send debris downstream, damaging other components. Replacement of the 3A1/3B2 FWHs is required to ensure continued reliabile operations of Oconee Unit 3.	$ 14,681,848	$ -	$ -
23	Oconee Nuclear Station Unit 3 Alloy 600 Nozzles Replacement	Nuclear Plant In Service	May-24	Replace nozzles made from an Alloy 600 material on the primary coolant piping at Oconee Nuclear Station Unit 3.	Primary water stress corrosion cracking (PWSCC) associated with Alloy 600 components is a known issue in the nuclear power generation industry. The Oconee Unit 3 resistance temperature elements (RTEs) are nozzles that are subject to PWSCC development. A failure of an RTE requires an unplanned outage to repair the piping and continue to be operational. Proactive replacement is needed for these nozzles to prevent failure and ensure continued reliable operation of Oconee Unit 3.	$ 8,262,359	$ -	$ -

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Oct 02 2023

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MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

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24	Oconee Nuclear Station Unit 1 Alloy 600 Nozzles Replacement	Nuclear Plant In Service	Nov-24	Replace nozzles made from an Alloy 600 material on the primary coolant piping at Oconee Nuclear Station Unit 1.	Primary water stress corrosion cracking (PWSCC) associated with Alloy 600 components is a known issue in the nuclear power generation industry. The Oconee Unit 1 flow meter weld bosses are nozzles that are subject to PWSCC development. A failure of these nozzles require an unplanned outage to repair the piping and continue to be operational. Proactive replacement is needed for these nozzles to prevent failure and ensure continued reliable operation of Oconee Unit 1.	$ 8,284,287	$ -	$ -
25	Oconee Nuclear Station Unit 3 Reactor Coolant Pump Motor Replacement	Nuclear Plant In Service	Dec-24	Replace the Oconee Nuclear Station Unit 3 reactor coolant pump (RCP) motor	The reactor coolant pumps are required to ensure safe and reliable operations of Oconee Unit 3. The motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 3,755,705	$ -	$ -
26	Oconee Nuclear Station Unit 1 Reactor Coolant Pump Motor Replacement	Nuclear Plant In Service	Dec-24	Replace the Oconee Nuclear Station Unit 1 reactor coolant pump (RCP) motor	The reactor coolant pumps are required to ensure safe and reliable operations of Oconee Unit 3. The motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require an extended unit shutdown to repair/replace.	$ 3,701,916	$ -	$ -
27	Oconee Subsequent License Renewal	Nuclear Plant In Service	Feb-24	The development, submittal, review, and approval of a Subsequent License Renewal (SLR) Request for the Oconee Nuclear Station that will allow for operations of each operating unit up to 80 years.	Obtaining subsequent license renewal for all three of the Oconee Nuclear Station operating units provides Duke Energy with a strategic position for the future operations of the station beyond the 2033-2034 timeframe. SLR approval provides Duke Energy with the ability to utilize existing carbon free generation for up to an additional 20 years beyond the current license.	$ 50,107,536	$ -	$ -
28	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2B Replacement	Nuclear Plant In Service	Apr-26	Replacement of the McGuire Nuclear Station '2B' reactor coolant pump seal as part of the site's preventive maintenance program for this equipment.	Reactor coolant pump seals serve as a pressure boundary for a nuclear power generating station's primary coolant system. These seals are replaced on a time-based frequency, recommended by the manufacturer, in order to maintain the integrity of the pressure boundary. Failure of the seals would require an unplanned unit shutdown, emergent seal repair, and could lead to a loss of coolant accident (LOCA). Replacement of these seals at the recommended frequency helps to ensure safe and reliable operations of McGuire Unit 2.	$ 1,219,791	$ -	$ -
29	McGuire Nuclear Station Unit 2 Heater Drain System Butterfly Valve Replacements	Nuclear Plant In Service	Oct-24	Replacement of the McGuire Nuclear Station Unit 2 heater drain system butterfly valves and air operated actuators.	Operating experience and the execution of valve maintenance activities have shown that Teflon liners contained in the heater drain system butterfly valves have a possibility of coming loose during normal operations. This project will replace these valves and the associated air operated actuators to ensure the valves will operate reliably in the future. Replacement of these valves and actuators will prevent the valve liners from potentially becoming foreign material, travelling downstream, and impacting the reliable operation of other equipment.	$ 841,922	$ -	$ -
30	McGuire Nuclear Station 2A Solid State Protection System Circuit Board Replacement	Nuclear Plant In Service	Oct-24	Replacement of the McGuire Nuclear Station Unit 2 'A' train solid state protection system (SSPS) printed circuit boards.	The existing solid state protection system (SSPS) circuit boards have exceeded their design life and spare replacements can no longer be purchased. After existing spares have been exhausted, an emergent failure of an SSPS circuit board puts the operating unit at risk of experiencing an unplanned unit shutdown if the emergent replacement cannot be completed within the Limiting Condition for Operation (LCO) associated with this equipment.	$ 5,008,806	$ -	$ 170,342
31	Catawba Nuclear Station Conventional Waste Water Treatment Pond Pipe Replacement	Nuclear Plant In Service	Nov-23	Replacement of the Catawba Nuclear Station Conventional Waste Water Treatment (WC) Pond Pipe.	The existing fiberglass and corrugated metal pipe is reaching the end of its service life and the piping is beginning to experience degradation. If this pipe were to experience a leak it would present an environmental risk. This project will replace the WC pond piping with pipe that is made of high density polyethylene (HDPE) for the below ground portions, and stainless steel piping for the above ground portions. The installation of the new piping mitigates the potential environmental risk associated with a failure of the existing pipe.	$ 2,881,598	$ -	$ 73,251
32	McGuire Nuclear Station Unit 1 Reactor Vessel Closure Head Peening	Nuclear Plant In Service	Oct-23	Peen the inside diameter of the McGuire Nuclear Station Unit 1 reactor vessel closure head (RVCH).	The McGuire Unit 1 RVCH has multiple locations utilizing Alloy 600 material at pressure boundary locations (e.g., penetration tubes and nozzle penetrations), which are susceptible to primary water stress corrosion cracking (PWSCC). PWSCC leads to extensive examinations, the potential for emergent repairs, and can lead to unpredictable refueling outage durations that lower the unit's reliability. To address these concerns, the RVCH will be peened to mitigate the impacts of PWSCC on the areas with Alloy 600 material, which will help ensure continued safe and reliable operations of the unit.	$ 36,024,907	$ -	$ -
33	McGuire Nuclear Station 1A Solid State Protection System Circuit Board Replacement	Nuclear Plant In Service	Oct-23	Replacement of the McGuire Nuclear Station Unit 1 'A' train solid state protection system (SSPS) printed circuit boards.	The existing solid state protection system (SSPS) circuit boards have exceeded their design life and spare replacements can no longer be purchased. After existing spares have been exhausted, an emergent failure of an SSPS circuit board puts the operating unit at risk of experiencing an unplanned unit shutdown if the emergent replacement cannot be completed within the Limiting Condition for Operation (LCO) associated with this equipment.	$ 3,234,312	$ -	$ -
34	McGuire Nuclear Station Unit 1 Component Cooling Pump Motor Replacement	Nuclear Plant In Service	Oct-23	Replace the McGuire Unit 1 component cooling (KC) pump motor.	The component cooling pumps are required to ensure safe and reliable operations of McGuire Unit 1. The motors are refurbished on a time-based frequency to ensure reliable operations of these pumps. Failure to replace the motors greatly increases the chances of a motor failure, which would require a unit shutdown to repair/replace.	$ 2,515,245	$ -	$ -
35	Oconee Nuclear Station Unit 2 Stator Coolant Rectifier Replacement	Nuclear Plant In Service	Nov-23	Replace the Oconee Nuclear Station Unit 2 main generator stator coolant rectifier system with a new system from the original equipment manufacturer.	The stator coolant rectifiers have reached the end of their design life, have obsolete components, and replacement parts are no longer available from the original equipment manufacturer. The ability to cool the main generator stators is critical for long-term operations of the unit. This project will replace the existing equipment that has reached end of life with an updated design from the original equipment manufacturer.	$ 1,941,623	$ -	$ -
36	Oconee Nuclear Station Unit 2 Isolated Phase Bus Replacement	Nuclear Plant In Service	Nov-23	Replace and upgrade components for the Oconee Nuclear Station Unit 2 isolated phase buse (IPB).	The replacement of the Oconee Unit 2 IPB components will allow the system to adequately handle increased heat loads due to the low pressure turbine replacement and the measurement uncertainty recapture (MUR) projects. Additionally, this project will eliminate the need for temporary cooling on the Unit 2 IPB during the summer months, provide operating margin from the IPB cooling system, and allow Oconee Unit 2 to operate reliably through the end of life.	$ 8,374,599	$ -	$ -
	TOTALS					**$ 262,701,972**	**$ -**	**$ 593,060**

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MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

			Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
1	Catawba Nuclear Station Unit 1 Protective Relay Replacements	Nuclear Plant In Service	Dec-24	$ 1,302,455	$ -	$ 84,964	Oct-24	$ 1,134,224	$ -	$ 84,056	Overall Cost Estimate Change
2	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2024)	Nuclear Plant In Service	Apr-24	$ 1,178,796	$ -	$ -	Apr-24	$ 973,246	$ -	$ -	Overall Cost Estimate Change
3	Catawba Nuclear Station Unit 2 Protective Relay Replacements (2025)	Nuclear Plant In Service	Oct-25	$ 1,416,459	$ -	$ 72,009	Oct-25	$ 870,431	$ -	$ -	Overall Cost Estimate Change
4	Catawba Nuclear Station Main Step-Up Transformer Replacement	Nuclear Plant In Service	Oct-24	$ 4,003,909	$ (10,000)	$ 4,794	Oct-24	$ 5,064,726	$ -	$ 4,926	Overall Cost Estimate Change
5	Catawba Nuclear Station Unit 2 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant In Service	Apr-24	$ 2,530,494	$ -	$ -	Apr-24	$ 4,109,664	$ -	$ -	Overall Cost Estimate Change
6	Catawba Nuclear Station Unit 1 High Pressure Turbine Nozzles and Diaphragms Replacement	Nuclear Plant In Service	Oct-24	$ 3,369,410	$ -	$ 332	Oct-24	$ 4,586,904	$ -	$ 665	Overall Cost Estimate Change
7	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Motors Replacement	Nuclear Plant In Service	Oct-24	$ 1,211,914	$ -	$ 153,600	May-24	$ 1,511,135	$ -	$ 153,968	Overall Cost Estimate Change
8	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Motors Replacement	Nuclear Plant In Service	Apr-24	$ 1,217,037	$ -	$ 307,200	Apr-24	$ 1,496,341	$ -	$ 105,853	Overall Cost Estimate Change
9	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2024)	Nuclear Plant In Service	Oct-24	$ 229,634	$ -	$ -	Oct-24	$ 229,428	$ -	$ -	Overall Cost Estimate Change
10	Catawba Nuclear Station Unit 1 Reactor Coolant Pump Seals Replacement (2026)	Nuclear Plant In Service	Apr-26	$ 247,291	$ -	$ -	Apr-26	$ 296,290	$ -	$ -	Overall Cost Estimate Change
11	Catawba Nuclear Station Unit 2 Reactor Coolant Pump Seals Replacement	Nuclear Plant In Service	Oct-25	$ 235,587	$ -	$ -	Oct-25	$ 282,354	$ -	$ -	Overall Cost Estimate Change
12	Catawba Nuclear Station Unit 2 Nuclear Service Water Pumps Replacement	Nuclear Plant In Service	Oct-25	$ 280,573	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed
13	McGuire Nuclear Station Unit 1 Polar Crane Motor and Controls Upgrade	Nuclear Plant In Service	Jul-24	$ 8,484,482	$ -	$ -	Jul-24	$ 7,688,912	$ -	$ -	Overall Cost Estimate Change
14	McGuire Nuclear Station Unit 2 Moisture Separator Reheaters Replacement	Nuclear Plant In Service	Dec-26	$ 47,255,148	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed
15	McGuire Nuclear Station Unit 1 Moisture Separator Reheaters Replacement	Nuclear Plant In Service	Dec-26	$ 54,756,802	$ -	$ -	Oct-26	$ 56,546,021	$ -	$ -	Project > $10M
16	McGuire Nuclear Station Ice Condenser Refrigeration	Nuclear Plant In Service	Dec-24	$ 5,989,942	$ -	$ -	Dec-25	$ 6,951,052	$ -	$ -	Overall Cost Estimate Change
17	McGuire Nuclear Station Unit 1 Turbine Controls Replacement	Nuclear Plant In Service	May-25	$ 13,092,286	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed

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DOCKET NO. E-7 Sub 1276

			Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
18	McGuire Nuclear Station Unit 2 Lower Containment 2B and 2C Air Handling Unit Coils Replacement	Nuclear Plant In Service	Apr-26	$ 4,887,503	$ -	$ -	Apr-26	$ 5,686,341	$ -	$ -	Overall Cost Estimate Change
19	McGuire Nuclear Station Unit 2 Lower Containment 2D Air Handling Unit Coils Replacement	Nuclear Plant In Service	Sep-24	$ 3,784,693	$ -	$ -	Sep-24	$ 4,446,868	$ -	$ -	Overall Cost Estimate Change
20	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2C Replacement	Nuclear Plant In Service	Sep-24	$ 1,331,952	$ -	$ -	Oct-24	$ 1,129,915	$ -	$ -	Overall Cost Estimate Change
21	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1C Replacement	Nuclear Plant In Service	Mar-25	$ 1,328,868	$ -	$ -	May-25	$ 1,126,721	$ -	$ -	Overall Cost Estimate Change
22	McGuire Nuclear Station Unit 1 Reactor Coolant Pump Seal 1A Replacement	Nuclear Plant In Service	Sep-26	$ 1,408,130	$ -	$ -	Nov-26	$ 1,130,765	$ -	$ -	Overall Cost Estimate Change
23	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2D Replacement	Nuclear Plant In Service	Mar-26	$ 1,408,025	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed
24	McGuire Nuclear Station Unit 2 Component Cooling Pump Motor Inspections and Replacement	Nuclear Plant In Service	Sep-24	$ 2,581,220	$ -	$ -	Sep-24	$ 2,421,982	$ -	$ -	Overall Cost Estimate Change
25	McGuire Nuclear Station Unit 1 Nuclear Service Water Pump Motor Inspections and Replacement	Nuclear Plant In Service	Apr-25	$ 2,316,328	$ -	$ -	Apr-25	$ 4,182,199	$ -	$ -	Overall Cost Estimate Change
26	Fleet Firewall Replacement	Nuclear Plant In Service	Dec-25	$ 19,854,388	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed
27	Fleet Operational Data Process Book Replacement	Nuclear Plant In Service	Dec-25	$ 15,985,914	$ -	$ -		$ -	$ -	$ -	Project Cancelled/Removed
28	Oconee Nuclear Station Feedwater Heaters Replacement	Nuclear Plant In Service	May-24	$ 17,468,302	$ -	$ -	May-24	$ 14,681,848	$ -	$ -	Project > $10M
29	Oconee Nuclear Station Unit 3 Alloy 600 Nozzles Replacement	Nuclear Plant In Service	May-24	$ 8,677,495	$ -	$ -	May-24	$ 8,262,359	$ -	$ -	Overall Cost Estimate Change
30	Oconee Nuclear Station Unit 1 Alloy 600 Nozzles Replacement	Nuclear Plant In Service	Nov-24	$ 8,367,056	$ -	$ -	Nov-24	$ 8,284,287	$ -	$ -	Overall Cost Estimate Change
31	Oconee Nuclear Station Unit 3 Reactor Coolant Pump Motor Replacement	Nuclear Plant In Service	Dec-24	$ 2,334,948	$ -	$ -	Dec-24	$ 3,755,705	$ -	$ -	Overall Cost Estimate Change
32	Oconee Nuclear Station Unit 1 Reactor Coolant Pump Motor Replacement	Nuclear Plant In Service	Dec-24	$ 2,179,849	$ -	$ -	Dec-24	$ 3,701,916	$ -	$ -	Overall Cost Estimate Change
33	Oconee Subsequent License Renewal	Nuclear Plant In Service	Feb-24	$ 50,049,523	$ -	$ -	Feb-24	$ 50,107,536	$ -	$ -	Project > $10M
34	McGuire Nuclear Station Unit 2 Reactor Coolant Pump Seal 2B Replacement	Nuclear Plant In Service					Apr-26	$ 1,219,791	$ -	$ -	Project Added

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DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

			Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
35	McGuire Nuclear Station Unit 2 Heater Drain System Butterfly Valve Replacements	Nuclear Plant In Service					Oct-24	$ 841,922	$ -	$ -	Project Added
36	McGuire Nuclear Station 2A Solid State Protection System Circuit Board Replacement	Nuclear Plant In Service					Oct-24	$ 5,008,806	$ -	$ 170,342	Project Added
37	Catawba Nuclear Station Conventional Waste Water Treatment Pond Pipe Replacement	Nuclear Plant In Service					Nov-23	$ 2,881,598	$ -	$ 73,251	Project Added
38	McGuire Nuclear Station Unit 1 Reactor Vessel Closure Head Peening	Nuclear Plant In Service					Oct-23	$ 36,024,907	$ -	$ -	Project Added
39	McGuire Nuclear Station 1A Solid State Protection System Circuit Board Replacement	Nuclear Plant In Service					Oct-23	$ 3,234,312	$ -	$ -	Project Added
40	McGuire Nuclear Station Unit 1 Component Cooling Pump Motor Replacement	Nuclear Plant In Service					Oct-23	$ 2,515,245	$ -	$ -	Project Added
41	Oconee Nuclear Station Unit 2 Stator Coolant Rectifier Replacement	Nuclear Plant In Service					Nov-23	$ 1,941,623	$ -	$ -	Project Added
42	Oconee Nuclear Station Unit 2 Isolated Phase Bus Replacement	Nuclear Plant In Service					Nov-23	$ 8,374,599	$ -	$ -	Project Added
	TOTALS			**$ 290,766,410**	**$ (10,000)**	**$ 622,899**		**$ 262,701,972**	**$ -**	**$ 593,060**	

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M*	Projected Installation O&M
1	DE Plaza interior capital	General Plant in Service	July '23 - Oct '23	DE Plaza interior capital - to implement the Charlotte Portfolio strategy by consolidating into one headquarters facility in uptown Charlotte and divesting of 5 facilities: 526 S. Church (owned), 401 S. College (owned), 400 S. Tryon (leased), Duke Energy Center (leased), and Piedmont Town Center (leased)	Placing costs into service as floors are complete: 01, 07, 11, 33-37, and 39-41	$ 79,437,061	$ (5,900,829)	$ -
	TOTALS					**$ 79,437,061**	**$ (5,900,829)**	**$ -**

*The O&M savings reflected here represent the cumulative net O&M savings/costs during all three years of the MYRP Period. The net savings and costs are broken out separately on Exhibit 2 for use within the MYRP revenue requirement calculation

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Line No.	MYRP Project Name	Location/Task Name	FERC Function	Project Forecasted In-Service Date	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	DE Plaza interior capital	DE Plaza interior capital - Level 34	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
2	DE Plaza interior capital	DE Plaza interior capital - Level 33	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
3	DE Plaza interior capital	DE Plaza interior capital - Level 11	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
4	DE Plaza interior capital	DE Plaza interior capital - Level 35	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
5	DE Plaza interior capital	DE Plaza interior capital - Level 36	General Plant in Service	August-23	$ 7,444,898	$ -	$ -
6	DE Plaza interior capital	DE Plaza interior capital - Level 37	General Plant in Service	August-23	$ 7,444,898	$ -	$ -
7	DE Plaza interior capital	DE Plaza interior capital - Level 07	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
8	DE Plaza interior capital	DE Plaza interior capital - Level 41	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
9	DE Plaza interior capital	DE Plaza interior capital - Level 40	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
10	DE Plaza interior capital	DE Plaza interior capital - Level 39	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
11	DE Plaza interior capital	DE Plaza interior capital - Level 01	General Plant in Service	October-23	$ 4,988,082	$ -	$ -
12	DE Plaza interior capital	DE Plaza interior capital - RY1 O&M	General Plant in Service	January-24	$ -	$ (6,555,226)	$ -
13	DE Plaza interior capital	DE Plaza interior capital - RY2 O&M	General Plant in Service	January-25	$ -	$ 292,600	$ -
14	DE Plaza interior capital	DE Plaza interior capital - RY3 O&M	General Plant in Service	January-26	$ -	$ 361,797	$ -
	TOTALS				**$ 79,437,061**	**$ (5,900,829)**	**$ -**

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DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M*	Projected Installation O&M
1	DE Plaza interior capital	General Plant in Service	Jul-23 - Oct-23	DE Plaza interior capital - to implement the Charlotte Portfolio strategy by consolidating into one headquarters facility in uptown Charlotte and divesting of 5 facilities: 526 S. Church (owned), 401 S. College (owned), 400 S. Tryon (leased), Duke Energy Center (leased), and Piedmont Town Center (leased)	Placing costs into service as floors are complete: 01, 07, 11, 34-37, and 39-41	$ 71,992,163	$ (6,502,780)	$ -
	TOTALS					**$ 71,992,163**	**$ (6,502,780)**	**$ -**

*The O&M savings reflected here represent the cumulative net O&M savings/costs during all three years of the MYRP Period. The net savings and costs are broken out separately on Exhibit 2 for use within the MYRP revenue requirement calculation

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Line No.	MYRP Project Name	Location/Task Name	FERC Function	Project Forecasted In-Service Date	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	DE Plaza interior capital	DE Plaza interior capital - Level 34	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
2	DE Plaza interior capital	DE Plaza interior capital - Level 11	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
3	DE Plaza interior capital	DE Plaza interior capital - Level 35	General Plant in Service	July-23	$ 7,444,898	$ -	$ -
4	DE Plaza interior capital	DE Plaza interior capital - Level 36	General Plant in Service	August-23	$ 7,444,898	$ -	$ -
5	DE Plaza interior capital	DE Plaza interior capital - Level 37	General Plant in Service	August-23	$ 7,444,898	$ -	$ -
6	DE Plaza interior capital	DE Plaza interior capital - Level 07	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
7	DE Plaza interior capital	DE Plaza interior capital - Level 41	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
8	DE Plaza interior capital	DE Plaza interior capital - Level 40	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
9	DE Plaza interior capital	DE Plaza interior capital - Level 39	General Plant in Service	September-23	$ 7,444,898	$ -	$ -
10	DE Plaza interior capital	DE Plaza interior capital - Level 01	General Plant in Service	October-23	$ 4,988,082	$ -	$ -
11	DE Plaza interior capital	DE Plaza interior capital - RY1 O&M	General Plant in Service	January-24	$ -	$ (7,159,138)	$ -
12	DE Plaza interior capital	DE Plaza interior capital - RY2 O&M	General Plant in Service	January-25	$ -	$ 292,265	$ -
13	DE Plaza interior capital	DE Plaza interior capital - RY3 O&M	General Plant in Service	January-26	$ -	$ 364,093	$ -
	TOTALS				**$ 71,992,163**	**$ (6,502,780)**	**$ -**

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Hager Exhibit 1
DOCKET NO. E-7 Sub 1276
Duke Energy Carolinas, LLC
Page 1 of 1

FERC Screens for 12 CP Allocations
on DEC Adjusted Firm System Production Demands*

Test # in FERC Order		System Peaks per Adjusted Firm Demands* 2018	2019	2020	2021	Times 12CP is a better fit in the last 4 years
1) On and Off Peak Test: tested against the following Peak methods						
1-CP Summer:						
	Month of Peak	6	7	7	7	
	Peak/Annual Max	92.5%	100.0%	100.0%	100.0%	
	Off-Peak/Annual Max	82.7%	90.2%	81.6%	85.4%	
	Difference (12 CP at maximum 19%)	9.8%	9.8%	18.4%	14.6%	13.1%
Is 12 CP a better fit than 1-CP Summer?		Yes	Yes	Yes	Yes	4
1-CP Winter:						
	Month of Peak	1	1	1	2	
	Peak/Annual Max	100.0%	95.8%	92.2%	89.0%	
	Off-Peak/Annual Max	82.1%	90.6%	82.3%	86.4%	
	Difference (12 CP at maximum 19%)	17.9%	5.2%	9.9%	2.6%	8.9%
Is 12 CP a better fit than 1-CP Winter?		Yes	Yes	Yes	Yes	4
2-CP (S/W) Peaks:						
	Peak Min Month	6	1	1	2	
	Peaks/Annual Max	96.3%	97.9%	96.1%	94.5%	
	Off-Peak/Annual Max	81.0%	89.6%	80.5%	85.1%	
	Difference (12 CP at maximum 19%)	15.2%	8.2%	15.6%	9.5%	12.1%
Is 12 CP a better fit than 2-CP (S/W)?		Yes	Yes	Yes	Yes	4
4CP (2W, 2S) Peaks:						
	Peaks/Annual Max	91.5%	95.6%	93.2%	94.2%	
	Off-Peak/Annual Max	79.6%	88.7%	78.1%	82.8%	
	Difference (12 CP at maximum 19%)	12.0%	6.8%	15.1%	11.4%	11 3%
Is 12 CP a better fit than 4CP (2W, 2S)?		Yes	Yes	Yes	Yes	4
4CP Max Peaks:						
	Peaks/Annual Max	93.5%	98.1%	96.5%	95.7%	
	Off-Peak/Annual Max	78.6%	87.5%	76.4%	82.1%	
	Difference (12 CP at maximum 19%)	14.8%	10.6%	20.1%	13.7%	14 8%
Is 12 CP a better fit than 4CP Max ?		Yes	Yes	No	Yes	3
2) Ratio - Low to Annual Max:						
	Difference (12 CP minimum 66%)	63.7%	72.6%	66.0%	70.5%	
	12 CP a good fit?	No	Yes	Yes	Yes	3
	Month of Annual Max:	Jan	Jul	Jul	Jul	
3) Ratio - Average to Annual Max:	Difference (12 CP minimum 81%)	83.6%	91.0%	83.1%	86.6%	
	12 CP a good fit?	Yes	Yes	Yes	Yes	4

* Adjusted Firm Demands exclude the following from the DEC System Peaks published in FERC Form 1, page 401b:
1) Wholesale's Central Permitted Additional Resource (PAR) is excluded and Behind the Meter generation is included in DEC's native load cost of service.
2) Curtailable demands that were not curtailed at the times of the monthly system peaks.

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DEC Cost of Service - 2021
Retail Curtailable Load Removed
Units: KW at Production

		Annual Total		
Rate Schedule	State	Rider SG	Rider IS	Total
NC I	NC	-	71,134	71,134
NC LGS	NC	1,521	55	1,576
NC OPTV Primary Large	NC	2,369	463,498	465,867
NC OPTV Primary Small	NC	-	236,621	236,621
NC OPTV Secondary Large	NC	-	155,707	155,707
NC OPTV Secondary Medium	NC	-	49,359	49,359
NC OPTV Secondary Small	NC	17,598	11,826	29,424
Total North Carolina Retail	NC	21,488	988,200	1,009,688
Total South Carolina Retail	SC	-	-	-
Total Retail Curtailable Load Removed		21,488	988,200	1,009,688

Rider SG - STANDBY GENERATOR CONTROL (NC ONLY)
Rider IS - INTERRUPTIBLE POWER SERVICE (NC ONLY)

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Belews Creek Steam Station
Stokes County, North Carolina

I. Site History

The Belews Creek Steam Station ("Belews Creek") is a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coal-fired generation facility that has been in service since 1974. Belews Creek has one impoundment, the Active Ash Basin, which has historically been used to store sluiced coal combustion residuals ("CCR"). The Active Ash Basin was constructed between 1970 and 1972 and became operational in 1974 when the coal-fired units came online.

In 1984, Belews Creek converted to dry handling of fly ash and began disposing the fly ash in the onsite Pine Hall Road Landfill. The Company continued to sluice bottom ash to the Active Ash Basin. Disposal of fly ash continued at the Pine Hall Road Landfill until it reached capacity in 2003 and was closed. From 2003 to 2007, dry fly ash was disposed of the Structural Fill nearby the Pine Hall Road Landfill. In 2007, the Company constructed the Craig Road Landfill, which then began receiving the plant's dry fly ash. In 2008, flue gas desulphurization ("FGD") residue, or gypsum, began to be produced as a byproduct of FGD technology. The gypsum byproduct is disposed of in the Craig Road Landfill or, if it meets specifications, is sold to the drywall industry. An aerial image depicting the CCR storage areas ("CCR Units") at Belews Creek is provided in **Figure 1** below.



Figure 1 – Aerial showing CCR Units at Belews Creek

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Allen Steam Station
Belmont, Gaston County, North Carolina

I. Site History

The Allen Steam Station ("Allen") is a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coalfired generation facility that began commercial operations in 1957. The Company has operated five coalfired units at Allen, the newest of which was built in 1961.

Allen has two onsite ash basins that were constructed to receive sluiced coal combustion residuals ("CCR") from the coal-fired units at the plant. The first ash basin, referred to as the Retired Ash Basin, was constructed in 1957 and received sluiced CCR until 1973. The second ash basin, known now as the Active Ash Basin, was constructed in 1972. Additionally, there are four dry ash storage areas onsite, which are designated as Distribution of Residual Solids ("DORS"). The DORS areas received dry ash from 1995 through 2006. The DORS areas are located above the west portion of the Retired Ash Basin. The CCR contained in the DORS areas were dredged from the Active Ash Basin in order to extend the useful life of the Active Ash Basin.

In 2009, the Allen Plant replaced its fly ash sluicing operation with a flue gas desulfurization ("FGD") facility. Also in 2009, DE Carolinas received a permit from the North Carolina Department of Environmental Quality ("NC DEQ") to construct an onsite, lined landfill on top of the Retired Ash Basin. This landfill, known as the RAB Ash Landfill, receives dry fly ash generated by the Allen Plant's coal-fired units. The Active Ash Basin ceased receiving CCR from the coal fired units in March of 2019. An aerial view of the Allen ash basins, DORS areas (ash fills), and landfill (collectively, the "CCR Units") is provided in **Figure 1** below.



Figure 1 – Aerial showing CCR Units at Allen

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Marshall Steam Station
Catawba County, North Carolina

I. Site History

The Marshall Steam Station ("Marshall") is a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coal-fired generation facility that has been in operation since 1965. Marshall has one impoundment, referred to as the Ash Basin, which was put into service in 1965 to receive sluiced coal combustion residuals ("CCR") from station's coal-fired generation units. Three additional coal-fired units were added in 1966, 1969, and 1970. The Ash Basin consists of a single cell that was impounded by constructing an earthen dike at the historic confluence of Holdsclaw Creek and the Catawba River.

In approximately 1984, Marshall's generation units were converted to produce dry fly ash as a byproduct of burning coal. Subsequently, the Company constructed the Dry Ash Landfill at Marshall to receive the dry fly ash. Phase 1, Cell 1 of the Dry Ash Landfill was completed in approximately 1984 and was closed in 1986. Phase 2 of the Dry Ash Landfill was also completed at the same time as Phase 1 and was closed in 2001. An onsite structural fill area also received dry fly ash from approximately 1999 through 2013. The Ash Basin has only received sluiced bottom ash since 1984.

In 2010, the Company constructed the onsite Industrial Landfill, which was designed for five phases with thirteen separate cells. The Industrial Landfill is permitted to receive fly ash, bottom ash, flue gas desulfurization ("FGD") residuals (i.e. gypsum), and other CCR. Phase 1 is currently in operation with Cells 1, 2, 3 and 4. FGD residuals have also been stored in the FGD Landfill. An aerial image depicting the CCR storage areas ("CCR Units") at Marshall is provided in **Figure 1** below.



Figure 1 – Aerial showing the CCR Units at Marshall

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Cliffside Steam Station (Rogers Energy Complex)
Cleveland and Rutherford Counties, North Carolina

I. Site History

The Cliffside Steam Station ("Cliffside") is a Duke Energy Carolinas, LLC's ("DE Carolinas" or the "Company") coal-fired generation facility that has been in operation since 1940. The Company originally operated four coal-fired generation units ("Units 1 through 4") at the station. Unit 5 came on line in 1972, followed by Unit 6 – a clean-coal unit – in 2012. Units 1 through 4 were retired from service in 2011. Currently, only Units 5 and 6 are in operation.

Coal combustion residuals ("CCR") from Cliffside have been stored in a combination of onsite ash basins and an onsite landfill. The oldest ash basin, referred to as the Units 1-4 Inactive Ash Basin, was constructed in 1957 to receive sluiced CCR from Units 1 through 4. The Units 1-4 Inactive Ash Basin was retired in 1977 when it reached capacity. It has since been excavated and repurposed for use as a stormwater basin.

The plant's second ash basin, referred to as the Unit 5 Inactive Ash Basin, was constructed in 1970 in advance of Unit 5 coming on line. The Unit 5 Inactive Ash Basin received sluiced CCR from 1972 until it reached capacity in 1980.

The plant's third ash basin, referred to as the Active Ash Basin, was constructed in 1975 to also receive CCR from Unit 5. The Active Ash Basin was later expanded in 1980 to its modern footprint; sluicing to this basin ceased in August, 2018. An additional dry ash storage area is located within the northwestern portion of the Active Ash Basin's waste boundary. This dry ash storage area provided additional capacity for sluiced ash.

DE Carolinas also operates the onsite Coal Combustion Products ("CCP") Landfill, which began receiving CCR in October 2010 as Phase 1 of the landfill. The CCP Landfill was constructed with an engineered liner and is permitted to receive fly ash, bottom ash, and other CCR. Phase 2 of the CCP Landfill was placed into service in 2016 and Phases 3 and 4 are being designed for future use. An aerial image depicting the CCR storage areas ("CCR Units") at Cliffside is provided in **Figure 1** below.

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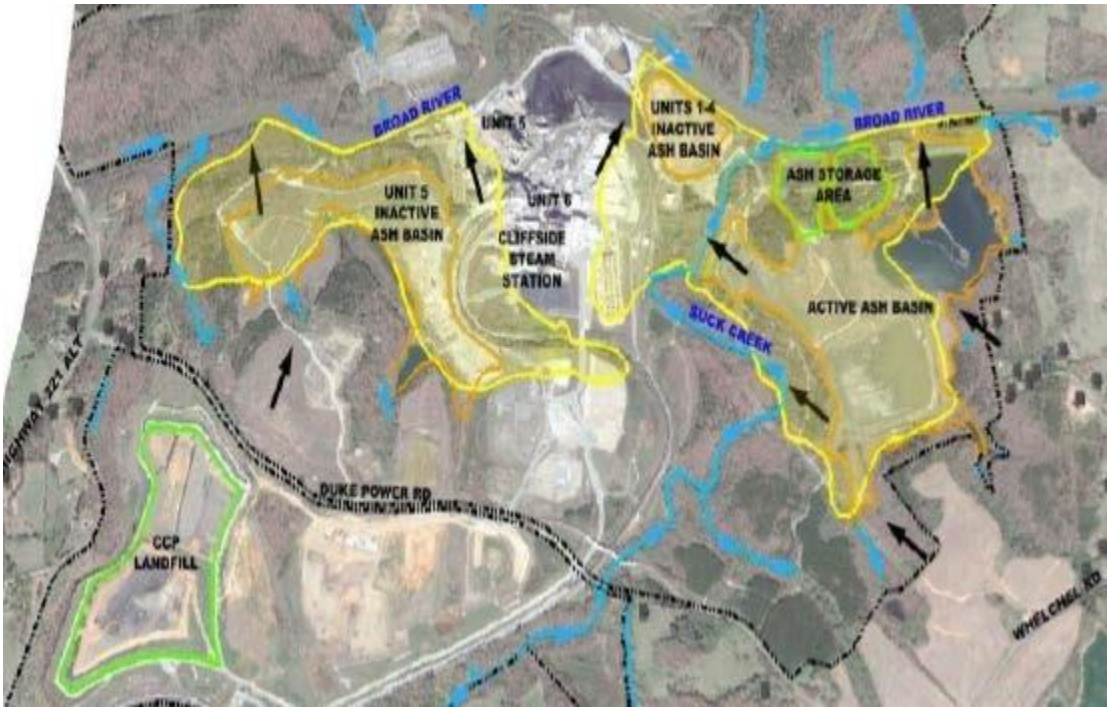


Figure 1 – Aerial showing CCR Units at Cliffside

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Buck Steam Station
Rowan County, North Carolina

I. Site Details

Buck Steam Station ("Buck") was Duke Energy Carolinas, LLC's ("DE Carolinas" or the "Company") first large capacity coal-fired electric generation station built in the Carolinas. Buck began commercial operations in 1926. All of the coal-fired units at Buck have been retired. The Company currently operates a 620 MW natural gas facility at Buck, which came on line in 2011.

The first coal combustion residuals ("CCR") basin at the Buck Plant, referred to as the Primary Ash Basin, was formed in 1956 by constructing a dam across a tributary to the Yadkin River. In 1977, the Company increased its CCR storage capacity at Buck by raising the main dam that formed the Primary Ash Basin and constructing a divider dam across the basin to create what is referred to as the Secondary Ash Basin. In 1982, DE Carolinas began construction on the Additional Primary Ash Basin to provide more storage for sluiced CCR. In 2009, approximately 200,000 cubic yards of CCR was excavated from the Additional Primary Ash Basin and placed within an onsite dry ash storage area to create additional capacity for sluiced coal ash. DE Carolinas ceased sluicing CCR to the ash basins at Buck in 2013. An aerial view depicting the CCR storage areas ("CCR Units") at Buck is provided in **Figure 1** below.



Figure 1 – Aerial showing the CCR Units at Buck

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W.S. Lee Steam Station
Anderson County, South Carolina

I. Site Details

W.S. Lee Steam Station ("W.S. Lee") was a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coal-fired generation station that began operations in 1951. The Company operated three coal-fired generation units at W.S. Lee, all of which were retired by 2014. DE Carolinas now operates a natural gas combined-cycle plant at the site.

The Company constructed the first ash basin at W.S. Lee, referred to as the Inactive Ash Basin, in 1951. The Inactive Ash Basin received sluiced coal combustion residuals ("CCR") from 1951 through 1974. DE Carolinas constructed the Primary and Secondary Ash Basins in 1974 and 1978, respectively, when the Inactive Ash Basin reached its storage capacity. The Primary and Secondary Ash Basins received sluiced CCR and other wastewater streams until November 2014. Periodically, CCR were dredged from the ash basins and placed at other locations onsite, including the Old Ash Fill and the Structural Fill. After 2014, the Primary and Secondary Ash Basins only received wastewater from the combined-cycle facilities and other associated facility wastewaters. An aerial view depicting the CCR storage areas ("CCR Units") at W.S. Lee is provided in **Figure 1** below.

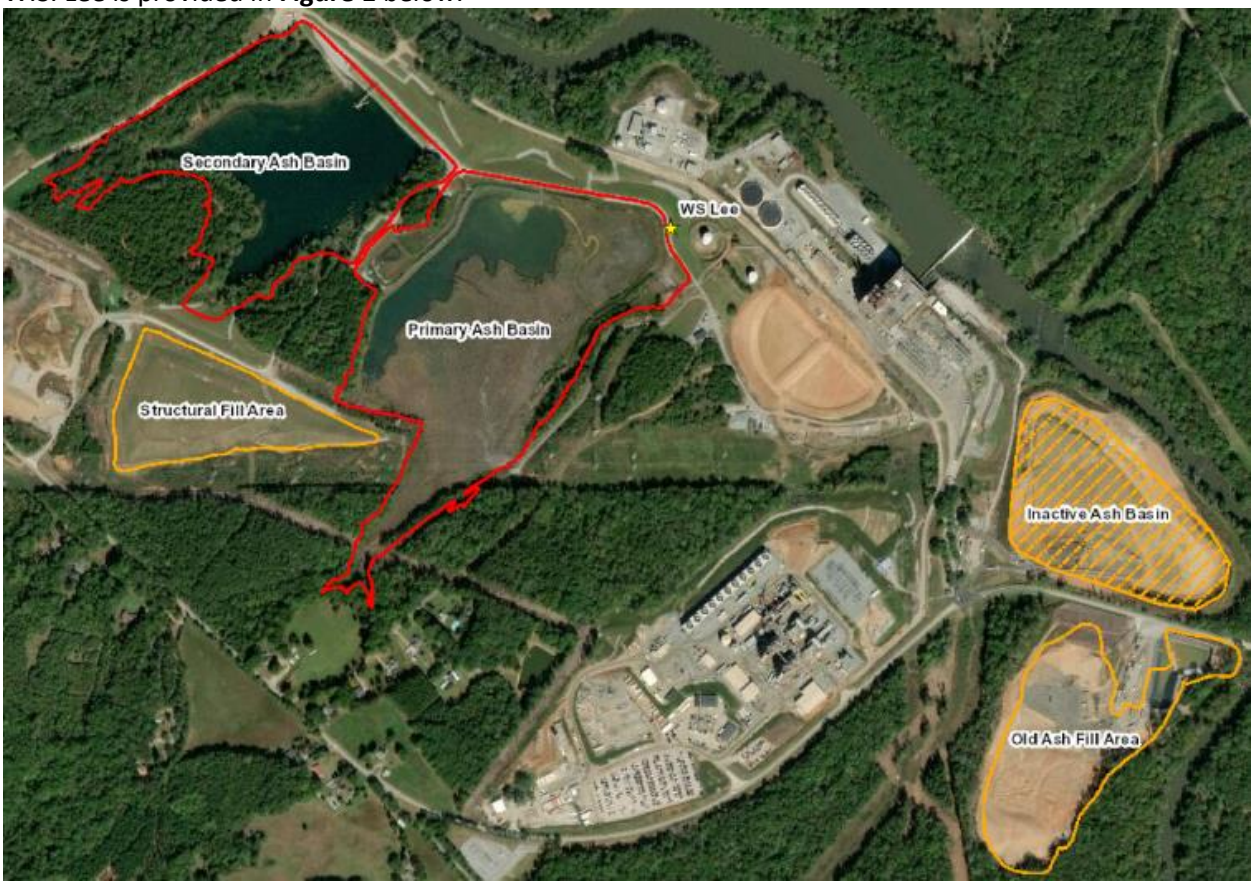


Figure 1 – Aerial showing the CCR Units at W.S. Lee

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Dan River Steam Station
Rockingham County, North Carolina

I. Site History

The Dan River Steam Station ("Dan River Station") was a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coal-fired generation station that began operations in 1949. The Company operated three coal-fired units at the station, which were retired in 2012. The coal-fired units have been replaced with a 620-MW natural gas facility.

Coal combustion residuals ("CCR") from the coal-fired units were stored onsite in four areas: Primary Ash Basin, Secondary Ash Basin, Ash Fill 1, and Ash Fill 2 (collectively, the "CCR Units"). The single ash basin at the Dan River Station was constructed in 1956 to receive sluiced coal combustion residuals ("CCR") for storage and disposal. In 1968, the Company expanded the original ash basin to cover the area later occupied by the Primary and Secondary Ash Basins. Approximately eight years later, the Company modified the original basin to form the two basins known as the Primary and Secondary Ash Basins. These modifications were made to increase the storage capacity at the site and to improve the water quality of the effluent being discharged from the basins. In 1980, the Company constructed two onsite dry storage areas, Ash Fill 1 and Ash Fill 2, north of the Primary and Secondary Ash Basins. These ash fill areas served as a place for ash to be relocated from the Primary and Secondary Basins to extend their service life. An aerial view of the Dan River Station that shows the locations of the CCR Units is provided in **Figure 1** below.

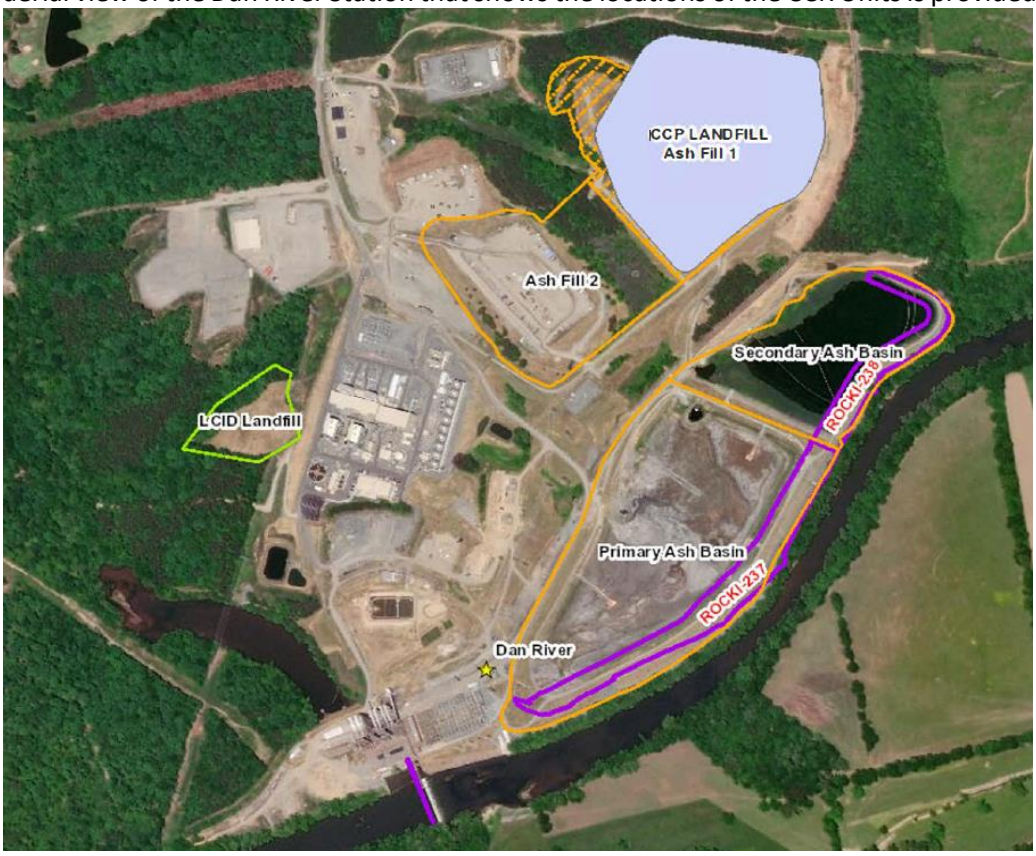


Figure 1 – Aerial showing the CCR Units at Dan River

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Riverbend Site Details
Gaston County, North Carolina

I. Site History

Riverbend was a Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company") coal-fired steam plant that was constructed in 1929. In 2013, Riverbend was decommissioned, and it no longer generates electricity. Historically, coal combustion residuals ("CCR") was stored at the site in several locations, including the Primary Ash Basin, Secondary Ash Basin, Cinder Pit, and Ash Stack (collectively "CCR Units"). Initially when the plant was constructed, the Company managed CCR from its coal-fired units in an area known as the Cinder Pit. In 1957, the Company began wet sluicing CCR and constructed a surface impoundment to receive the sluiced CCR. That original basin was divided and vertically expanded in 1979 to form the Primary and Secondary Ash Basins. Periodically, the Company would remove CCR from the ash basins to extend their useful life and meet permitting requirements. The CCR removed from the ash basins was stored in the Ash Stack area. An aerial view depicting the locations of the CCR Units at Riverbend is provided in **Figure 1** below.

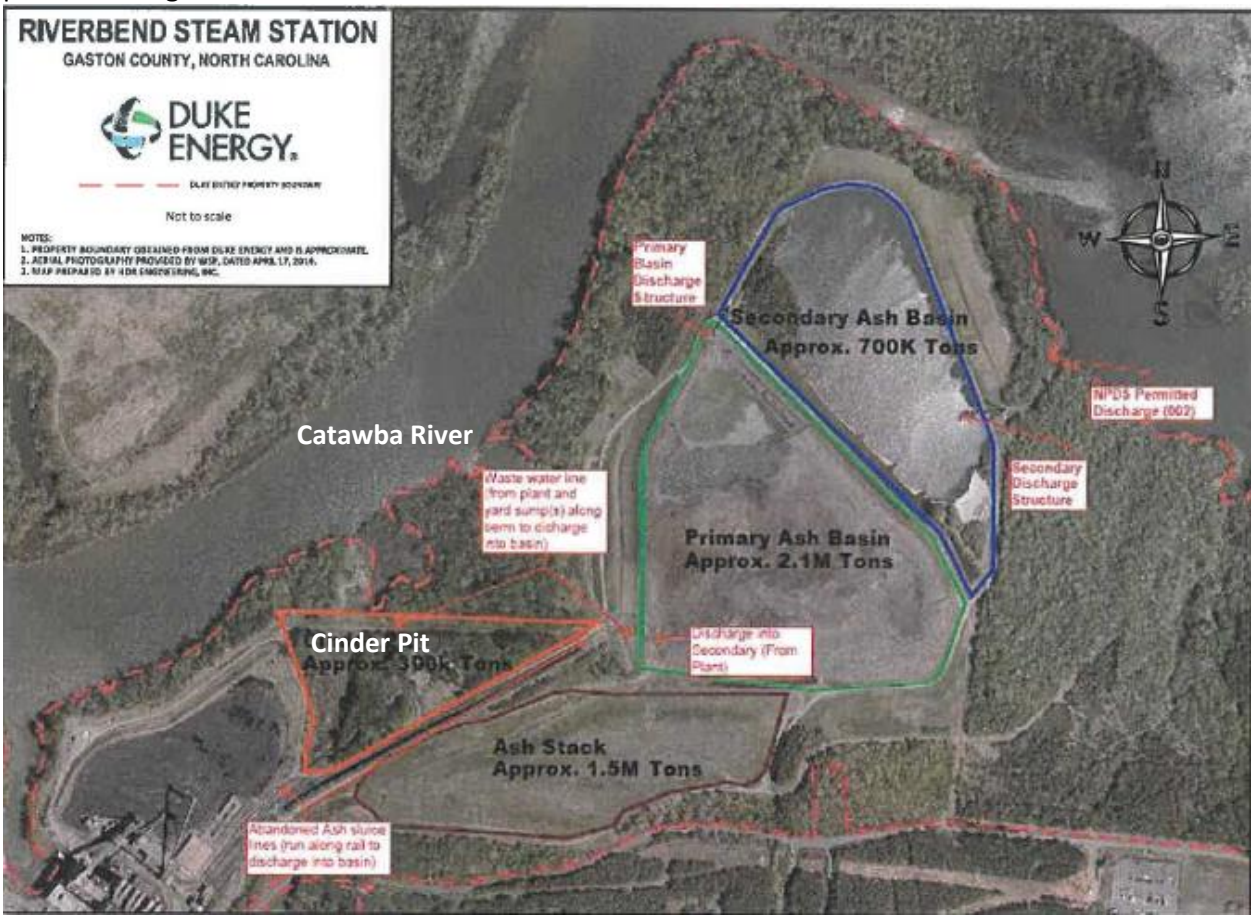


Figure 1 – Aerial showing the CCR Units at Riverbend

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Project Director

Jeff Kopp, PE

Senior Managing Director, Energy & Utilities Consulting

Education

B.S. / Civil Engineering
MBA / Business Administration

Registrations

- Professional Engineer (FL, IL, IN, MO)

22 years with 1898 & Co.
23 years of experience

Visit my LinkedIn profile.

Jeff is the Managing Director of Utility Consulting at 1898 & Co., part of Burns & McDonnell. He and his team specialize in consulting services for power generation and transmission and distribution projects. This includes power plant decommissioning studies, energy project development, due diligence reviews, resource planning, renewable project development, rate studies and analysis, transmission planning, distribution planning, and grid modernization.

PROJECT EXPERIENCE

Decommissioning Study / CenterPoint Energy Indiana South

Indiana / 2023

Project director on a decommissioning study for the entire fleet of power generating facilities owned by CenterPoint Energy Indiana South. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired plants, natural gas-fired simple and combined cycle units, landfill gas, wind farms, and solar projects. Subsequent to the studies, Jeff will be available to provide written and oral testimony regarding the study findings.

Decommissioning Study / Duke Energy

North Carolina, South Carolina, Kentucky, Florida / 2022

Project director on a decommissioning study for the entire fleet of power generating facilities owned by Duke Energy Carolinas, Duke Energy Progress, Duke Energy Kentucky, and Duke Energy Florida. The evaluations were performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired plants, natural gas-fired simple and combined cycle units, gas fired boilers, hydro-electric plants, and solar projects. Subsequent to the studies, Jeff provided written and oral testimony in Duke Energy rate hearings in and Kentucky regarding the study findings.

Decommissioning Study / Northern Indiana Public Service Co.

Indiana / 2022

Project director on a decommissioning study for the entire fleet of power generating facilities owned by Northern Indiana Public Service Company. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired plants, natural gas-fired simple and combined cycle units, hydro-electric plants, wind farms, solar farms, and battery energy storage projects. Subsequent to the studies, Jeff provided written and oral testimony in Duke Energy rate hearings in North Carolina and Kentucky regarding the study findings.

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Project Director

TESTIMONY EXPERIENCE

Utility Company	Regulatory Agency	Docket No.	Subject
Evergy	The State Corporation Commission of the State of Kansas	Docket No. 23-EKCE-775-RTS	Rate Case – Decommissioning Costs
Duke Energy Kentucky	Kentucky Public Service Commission	Case No. 2022-00372	Rate Case – Decommissioning Costs
XcelEnergy	New Mexico Public Regulation Commission	Case No. 22-00286-UT	Rate Case – Decommissioning Costs
XcelEnergy	Public Utility Commission of Texas	PUC Docket No. 54634	Rate Case – Decommissioning Costs
Evergy Missouri Metro	Public Service Commission of the State of Missouri	Case No. ER-2022-0129	Rate Case – Decommissioning Costs
Northern Indiana Public Service Co	Indiana Utility Regulatory Commission	Cause No. 45772	Rate Case – Decommissioning Costs
Centerpoint Energy Indiana South	Indiana Utility Regulatory Commission	Cause No. 45722	Securitization Filing – Decommissioning Costs
Evergy Missouri Metro	Public Service Commission of the State of Missouri	Case No. ER-2022-0129	Rate Case – Decommissioning Costs
Evergy Missouri West	Public Service Commission of the State of Missouri	Case No. ER-2022-0130	Rate Case – Decommissioning Costs
Florida Power & Light Company	Florida Public Service Commission	Docket No. 20210015-EI	Rate Case – Decommissioning Costs
Duke Energy Florida	Florida Public Service Commission	Docket No. 20210016-EI	Rate Case – Decommissioning Costs
Tampa Electric Company	Florida Public Service Commission	Docket No. 20200264-EI	Rate Case – Decommissioning Costs
Big Rivers Electric Corporation	Kentucky Public Service Commission	2019-00269	Enforcement of Rate and Service Standards – Decommissioning
XcelEnergy	Public Utility Commission of Texas	PUC Docket No. 49831	Rate Case – Decommissioning Costs
XcelEnergy	New Mexico Public Regulation Commission	Case No. 19-00170-UT	Rate Case – Decommissioning Costs
Duke Energy Indiana	Indiana Utility Regulatory Commission	Cause No. 45253	Rate Case – Decommissioning Costs
Calpine Energy	State of New York Board on Electric Generation Siting	Case No. 18-F-0262	Certificate of Environmental Compatibility and Public Need – Decommissioning Costs
Calpine Energy	State of New York Board on Electric Generation Siting	Case No. 16-F-0559	Certificate of Environmental Compatibility and Public Need – Decommissioning Costs
Oklahoma Gas and Electric	The Corporation Commission of the State of Oklahoma	PUD 201800140	Rate Case – Decommissioning Costs
Golden Valley Electric Association	The Regulatory Commission of Alaska	U-18-010	Retirement Report for Healy Unit 1 – Decommissioning Costs
Progress Energy Florida	Florida Public Service Commission	090079-EI	Rate Case – Decommissioning Costs
Otter Tail Power Company	Minnesota Public Utilities Commission	E017/M-10-1082	Advanced Determination of Prudence – AQCS Upgrades
Otter Tail Power Company	Public Service Commission of the State of North Dakota	PU-11-165	Advanced Determination of Prudence – AQCS Upgrades
XcelEnergy	Public Utilities Commission of the State of Colorado	14AL-0660E	Rate Case – Decommissioning Costs
XcelEnergy	Public Utilities Commission of the State of Colorado	16A-0231E	2016 Revised Depreciation Rates
Florida Power & Light Company	Florida Public Service Commission	160021-EI; 160062-EI	Rate Case – Decommissioning Costs
Duke Energy Kentucky	Kentucky Public Service Commission	2017-00321	Rate Case – Decommissioning Costs
Duke Energy Progress	North Carolina Utilities Commission	Docket No. E-2, Sub 1142	Rate Case – Decommissioning Costs
Duke Energy Carolinas	North Carolina Utilities Commission	Docket No. E-7, Sub 1146	Rate Case – Decommissioning Costs
Oklahoma Gas and Electric	Corporation Commission of Oklahoma	Cause No. PUD 201700496	Rate Case – Decommissioning Costs

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PROJECT EXPERIENCE

Decommissioning Study / CenterPoint Energy Indiana South

Indiana / 2022

Project director on a decommissioning study for the coal-fired AB Brown plant owned by CenterPoint Energy Indiana South. The evaluation was performed to determine the cost to demolish the unit and restore the site at the end of it's useful life to support regulatory filings. Subsequent to the study, Jeff provided written regarding the study findings.

Decommissioning Study / Evergy

Kansas, Missouri / 2021

Project director on a decommissioning study for the entire fleet of power generating facilities owned by Evergy in the States of Kansas and Missouri. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included several coal-fired plants, natural gas-fired simple and combined cycle units, and wind farms. Subsequent to the study, Jeff is available to provide written and oral testimony in Evergy's rate case hearing regarding the study findings.

Decommissioning Study / FPL Energy

Florida, Georgia / 2020

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by FPL Energy and Gulf Power in the States of Florida and Georgia. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included several coal-fired plants, natural gas-fired simple and combined cycle units, and solar generating facilities. Subsequent to the study, Jeff provided written testimony in FPL Energy's rate case hearing regarding the study findings.

Decommissioning Study / Xcel Energy

Colorado / 2020

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Xcel Energy in the State of Colorado. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included several coal-fired plants, natural gas-fired simple and combined cycle units, and hydroelectric plants. Subsequent to the study, Jeff was available to provide written and oral testimony in Xcel Energy's rate hearing regarding the study findings.

Decommissioning Study / Apex Clean Energy

New York / 2019

Project manager on a decommissioning study for a wind farm being developed in New York. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support Calpine's application to construct a major electric generating facility under Article 10 of the New York Public Service Law. Subsequent to the study, Jeff provided written testimony in the Article 10 public hearings regarding the study findings.

Decommissioning Study / Calpine

New York / 2019

Project manager on a decommissioning study for a wind farm being developed in New York. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support Calpine's application to construct a major electric generating facility under Article 10 of the New York Public Service Law. Subsequent to the study, Jeff provided written testimony in the Article 10 public hearings regarding the study findings.

Decommissioning Study / Southwestern Public Service

Texas, New Mexico / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Southwestern Public Service. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired plants, natural gas-fired simple cycle units, and gas fired boiler projects. The report and results are being used in support of depreciation rates as part of the rate case filing. Jeff provided support through the regulatory process with written testimony in Southwestern Public Service's rate hearings regarding the study findings.

Decommissioning Study / Duke Energy

Indiana / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Duke Energy Indiana. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired plants, natural gas-fired simple and combined cycle units, solar projects, and a hydro-electric plant. Jeff provided support through the regulatory process with written testimony in Duke Energy Indiana's rate hearing regarding the study findings.

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Decommissioning Study / Golden Valley Electric Association

Alaska / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Golden Valley Electric Association. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included a coal-fired plant, diesel and naphtha fired combustion turbine units, a battery energy storage facility, and a wind farm. Jeff provided written testimony in Golden Valley's Compliance Hearing regarding the retirement of their Healy Unit 1 project. Jeff also provided written testimony in Golden Valley's rate hearing regarding the study findings.

Decommissioning Study / Owensboro Municipal Utilities

Kentucky / 2018

Project manager on a decommissioning study for coal fired generating facility owned by Owensboro Municipal Utilities. The evaluation was performed to determine the options for retiring the plant and associated costs. Options evaluated included placing one of the units into layup with the potential to restart at a later date, retirement in place, or full demolition and site restoration.

Decommissioning Study / Duke Energy

Florida / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Duke Energy Florida. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included a coal-fired plant, natural gas-fired simple and combined cycle units, and solar projects. Subsequent to the study, Jeff provided written testimony in Duke Energy Florida's rate hearing regarding the study findings.

Decommissioning Study / Tucson Electric Power

Arizona / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Tucson Electric Power. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included a coal-fired plant, natural gas-fired simple and combined cycle units, and solar projects. Subsequent to the study, Jeff was available to provide written and oral testimony in Tucson Electric Powers's rate hearing regarding the study findings.

Decommissioning Study / Public Service of New Mexico

New Mexico / 2018

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Duke Energy Florida. The evaluation is being performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation includes a coal-fired plant, natural gas-fired simple and combined cycle units, and solar projects.

Decommissioning Study / Capital Power

Illinois / 2018

Project manager on a decommissioning study for a wind farm being developed in Illinois. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support the county zoning application. Subsequent to the study, Jeff will be available to provide written and oral testimony in the county zoning hearings regarding the study findings.

Decommissioning Study / Calpine

New York / 2018

Project manager on a decommissioning study for a wind farm being developed in New York. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support Calpine's application to construct a major electric generating facility under Article 10 of the New York Public Service Law. Subsequent to the study, Jeff provided written and oral testimony in the Article 10 public hearings regarding the study findings.

Decommissioning Study / Tradewind Energy

Illinois / 2018

Project manager on a decommissioning study for a wind being developed in Illinois. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support the county zoning application. Subsequent to the study, Jeff will be available to provided support for the county zoning hearings regarding the study findings.

Decommissioning Study / Hawaii Electric Company

Hawaii / 2018

Project manager on a decommissioning study for a reciprocating engine plant that was under construction for Hawaii Electric Company. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life.

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Decommissioning Study / EDP Renewables

Indiana / 2018

Project manager on a decommissioning study for a wind farm being developed in Indiana. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support the county zoning application. Subsequent to the study, Jeff provided written and oral testimony in the county zoning hearings regarding the study findings.

Decommissioning Study / EDP Renewables

Illinois / 2018

Project manager on a decommissioning study for a wind farm being developed in Illinois. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support the county zoning application. Subsequent to the study, Jeff provided oral testimony in the county zoning hearings regarding the study findings.

Due Diligence / Centerpoint Energy

Indiana / 2017

Project manager for a due diligence evaluation of Vectren's fleet of power plants being considered as part of a potential full acquisition of Vectren by Centerpoint. The evaluation included a technical, environmental, and contractual review of the coal, simple cycle, and wind farm facilities. As part of the project, Jeff presented the results of the study to CenterPoint's board of directors to support their decision making process for the acquisition.

Due Diligence / PKA AIP

Michigan / 2017

Project manager for a due diligence evaluation of a combined cycle power plant being considered for potential equity investment by PKA AIP. The evaluation included a technical, environmental, and contractual review of the plant.

Decommissioning Study / Tampa Electric Company

Florida / 2017

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Tampa Electric. The evaluation is being performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation includes a coal-fired plant, natural gas-fired simple and combined cycle units, and solar projects. Subsequent to the study, Jeff will be available to provide written and oral testimony in Tampa Electric's rate hearing regarding the study findings.

Decommissioning Asset Retirement Obligation Study / NRG Energy & Clearway Energy

Various US Locations / 2017 - 2020

Project manager on a decommissioning study to evaluate the asset retirement obligation costs for numerous renewable energy facilities owned by NRG Energy throughout the United States. The evaluation was performed to determine the costs for any obligations to remove and/or demolish the facilities and equipment and perform environmental remediation and site restoration activities. The study was performed to support compliance with FAS 143 requirements.

Due Diligence / Confidential Client

Northwest / 2017

Project manager for a due diligence evaluation of three natural gas fired combine cycle power plants being considered for potential acquisition. The evaluation included a technical, environmental, and contractual review of the facilities.

Decommissioning Study / Confidential Client

Illinois / 2017

Project manager for a site retirement evaluation to help determine the cost to retire a 600 MW coal-fired project in Illinois at the end of its useful life. Estimates for demolition and site restoration were included in the evaluation. Jeff previously prepared decommissioning study estimates for this plant with the updated study being performed to reflect current pricing and changes in regulations.

Decommissioning Study / AEP

Ohio, Indiana / 2017

Project manager on a decommissioning study for two coal fired power plants owned by Ohio Valley Electric Company and Indiana Kentucky Electric Company, both of which AEP is the largest shareholder. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives for purposes of accruing the costs over the life of the plants.

Decommissioning Study / OGE Energy Corp.

Oklahoma / 2017

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by OGE Energy in Oklahoma. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support depreciation rates. The evaluation included several coal-fired plants,

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natural gas fired boilers, natural gas-fired simple and combined cycle units, and a wind farm. Subsequent to the study, Jeff provided written testimony, and is currently providing support in replying to discovery requests. Jeff will be available to provide oral testimony in OGE Energy's rate hearing regarding the study findings.

Decommissioning Study / Duke Energy

North Carolina, South Carolina, Kentucky / 2017

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Duke Energy Carolinas, Duke Energy Progress, and Duke Energy Kentucky. The evaluations were performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included coal-fired planst, natural gas-fired simple and combined cycle units, gas fired boilers, hydro-electric plants, and solar projects. Subsequent to the study, Jeff provided written and oral testimony in Duke Energy rate hearings in North Carolina and Kentucky regarding the study findings.

Useful Life Assessment / Confidential Client

Southeast / 2017

Project manager on a useful life assessment for a combined cycle power plant for a confidential client. The evaluation was performed to determine the anticipated life of the facility and associated costs to achieve that life. The study supported financial modeling of the facility as part of the utility's portfolio of assets.

Useful Life Assessment / Confidential Client

Southeast / 2017

Project manager on a useful life assessment for a combined cycle power plant for a confidential client. The evaluation was performed to determine the anticipated life of the facility and associated costs to achieve that life. The study supported financial modeling of the facility as part of the utility's portfolio of assets.

Decommissioning Study / FPL Energy

Florida / 2015

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by FPL Energy in the State of Florida. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included several coal-fired plants, natural gas-fired simple and combined cycle units, solar generating facilities. Subsequent to the study, Jeff provided written and oral testimony in FPL Energy's rate case hearing regarding the study findings.

Decommissioning Study / Xcel Energy

Colorado / 2014

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Xcel Energy in the State of Colorado. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives to support regulatory filings. The evaluation included several coal-fired plants, natural gas-fired simple and combined cycle units, hydroelectric plants, and a wind farm. Subsequent to the study, Jeff is provided written and oral testimony in Xcel Energy's rate hearing regarding the study findings.

Decommissioning Cost Evaluation / Progress Energy Florida

Florida / 2008-2009

Project manager on a site retirement cost evaluation for all the fossil fuel-fired power generating facilities owned by Progress Energy in the state of Florida. The evaluation was performed to determine the costs to demolish the units and restore the sites and included a natural gas-fired steam plants, fuel oil-fired steam plants, natural gas-fired combustion turbines, coal-fired facilities, and combined cycle generating facilities. Subsequent to the study, Jeff provided direct testimony in Progress Energy Florida's rate case regarding the study findings.

Decommissioning Asset Retirement Obligation Study / NRG Energy

California / 2016

Project manager on a decommissioning study to evaluate the asset retirement obligation costs for all the fossil fuel-fired power generating facilities owned by NRG Energy in the state of California. The evaluation was performed to determine the costs for any legally obligations to demolish facilities and equipment and perform environmental remediation and site restoration activities. The facilities included a natural gas and fuel oil fired plants consisting of boilers, combustion turbines, and combined cycle generating facilities.

Due Diligence / Confidential Client

Northeast / 2016

Project manager for a due diligence evaluation of a portfolio of power generation assets. The assets included gas and oil fired boilers, combined cycle combustion turbines, and simple cycle combustion turbines. The client was considering acquiring an equity stake in the facilities. The evaluation included a technical, environmental, and contractual review of the facilities. The review primarily focused on

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evaluation of recent repairs to the facilities, remaining life of the equipment, and potential large capital cost requirements to identify key risks or fatal flaws.

Due Diligence / Confidential Client

Northeast / 2016

Project manager for a due diligence evaluation of a coal fired power generating facility that was being offered for sale. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the facilities. The review primarily focused on evaluation of the condition of the equipment and facilities, upgrades required to comply with environmental regulations, and other major capital or O&M projects to identify key risks or fatal flaws.

Due Diligence / Confidential Client

Northeast / 2016

Project manager for a due diligence evaluation of a combined cycle generating facility under development. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility. The review primarily focused on evaluation of the project costs, schedule, permitting, and other development activities to determine any development risks or fatal flaws.

Decommissioning Study / PacifiCorp

Oregon, Washington, Wyoming / 2016

Project manager on a decommissioning study for three wind farms owned by PacifiCorp. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives in support of determining depreciation rates.

Due Diligence / Confidential Client

Northeast / 2016

Project manager for a due diligence evaluation of a combined cycle generating facility under development. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility. The review primarily focused on evaluation of the project costs, schedule, permitting, EPC contract, equipment contracts, and other development activities to determine any development risks or fatal flaws.

Due Diligence / Confidential Client

Southeast / 2016

Project manager for a due diligence evaluation of a natural gas fired combined cycle power generating facility that was being offered for sale. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the facility. The review primarily focused on evaluation of the condition of the equipment, sufficiency of contractual arrangements, and environmental compliance to identify key risks or fatal flaws

Decommissioning Study / Big Rivers Electric Cooperative

Kentucky / 2016

Project manager on a decommissioning study for two coal-fired power generating facilities owned by Big Rivers Electric Cooperative. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives.

Due Diligence / Confidential Client

Northeast / 2016

Project manager for a due diligence evaluation of a natural gas fired combined cycle power generating facility that was being offered for sale. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the facility. The review primarily focused on evaluation of the condition of the equipment, sufficiency of contractual arrangements, design issues surrounding recent plant performance challenges, and environmental compliance to identify key risks or fatal flaws.

Useful Life Assessment / Confidential Client

Southeast / 2015

Project manager on a useful life assessment for a combined cycle power plant for a confidential client. The evaluation was performed to determine the anticipated life of the facility to support financing of the project associated with acquisition of the facility.

Decommissioning Study / Nebraska Public Power District

Nebraska / 2015

Project manager on a decommissioning study for five power generating facilities owned by Nebraska Public Power District. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives. The evaluation included two coal-fired plants, a natural gas-fired boiler plant, a combined cycle plant, and a wind farm.

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Decommissioning Study / Lafayette Utilities System

Louisiana / 2015

Project manager on a decommissioning study for a coal fired generating facility in the state of Louisiana. The evaluation was performed to determine the costs for options to retire the units in place or demolish the units and restore the site now that the units are no longer operating. The costs are being used for planning purposes by the client, to determine the preferred decommissioning plan for the plant.

Decommissioning Study / Colstrip Energy

Montana / 2015

Project manager on a decommissioning study for a coal fired generating facility in the state of Montana. The evaluation was performed to determine the costs to demolish the unit and restore the site at the end of its useful life. The costs were used for planning purposes by the client, to determine the decommissioning funds that need to be accrued throughout the operating life of the facility.

Due Diligence / Confidential Client

Northeast / 2015

Project manager for a due diligence evaluation of a combined cycle generating facility under development. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility. The review primarily focused on evaluation of the project costs, schedule, permitting, and other development activities to determine whether the project was economically attractive and determine any development risks or fatal flaws.

Decommissioning Study / Apex Clean Energy

Various Locations / 2015

Project manager for a site retirement cost evaluation for three proposed wind energy facilities under development. The evaluation was performed to support permitting activities on the facilities.

Decommissioning Study / Oklahoma Gas & Electric

Oklahoma / 2014

Project manager on a decommissioning study for a power generating facility in the Midwest. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life. The plant was expected to retire within a year or two of the study, and the costs were used for planning purposes by the client.

Decommissioning Study / Basin Electric Cooperative

North Dakota & Wyoming / 2014

Project manager on a decommissioning study for five power generating facilities in the North Dakota and Wyoming. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful life. The costs are being used for planning purposes by the client.

Coal Plant Layup / Hoosier Energy

Indiana / 2014

Project manager on the preparation of a plan to place a coal fired generating facility in long term layup reserve status. The project included preparation of three manuals for the implementation of the layup plan, maintaining the plant during the layup period, and reactivating the plant at the end of the layup period. .

Decommissioning Study / Apex Clean Energy

Illinois / 2014

Project manager for a site retirement cost evaluation for a proposed wind energy facility under development. The evaluation was performed to support permitting activities on the facility.

Decommissioning Study / Confidential Client

Midwest / 2014

Project manager for a due diligence evaluation of a combined cycle generating facility under development. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility. The review primarily focused on evaluation of the project costs, schedule, permitting, and other development activities to determine whether the project was economically attractive and determine any development risks or fatal flaws.

Due Diligence / Duke Energy

Florida / 2014

Project manager for a due diligence evaluation of the Osprey Energy Center combined cycle generating facility being offered for sale. Duke Energy was considering acquiring the facility from the current owner. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility. Duke successfully acquired the facility and utilized the Independent Engineer's Report prepared by 1898 & Co. to support the regulatory process through acquisition of the facility.

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Due Diligence / Confidential Client
Southeast / 2014

Project manager for a due diligence evaluation of a cogeneration facility being offered for sale. The client was considering acquiring the facility from the current owner. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility, including a review of potential modifications to the facility due to the loss of the steam host and associated costs.

Due Diligence / Indiana Municipal Power Agency
Indiana / 2014

Project manager for a due diligence evaluation of a coal-fired generating facility being offered for sale. The client was considering acquiring the assets from the current owner. The evaluation includes a technical, environmental, and contractual review of the coal fired generation facility. .

Due Diligence / Kansas Municipal Power Agency
Missouri / 2014

Project manager for a due diligence evaluation of a combined cycle generating facility being offered for sale. The client was considering acquiring an equity stake in the facility. The evaluation included a technical, environmental, and contractual review of the natural gas fired generation facility.

Strategic Site Selection Study / Confidential Client
Midwest / 2013

Lead on site selection study for a new natural gas fired combined cycle generating resource in the Midwest. The study included evaluating greenfield and brownfield sites to determine the most attractive sites and the limiting factors to development at each site.

Strategic Site Selection Study / Confidential Client
Northeast / 2013

Lead on site selection study for a new gas processing facility in the northeast. The study included evaluating potential greenfield locations for a cryogenic gas processing plant to handle wet and dry gas from the Utica and Marcellus Shale areas.

Site Evaluations / Confidential Client
Southeast / 2013

Lead on the evaluation of three potential sites for a new natural gas fired combined cycle generating facility in the Southeast. The study included reviewing three sites previously selected by the client and ranking those sites relative to one another to determine their suitability for the natural gas-fired generation options under consideration. .

Decommissioning Study / Arizona Public Service
Arizona / 2013

Project manager on a decommissioning study for a four-steam electric generating facilities in the southwest. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives. The evaluation included two coal-fired plants, and two natural gas and fuel oil fired boilers.

Decommissioning Study / Confidential Client
Texas / 2013

Lead on a decommissioning study for a coal fired generating facility in Texas. The study included evaluating options to place the plant in reserve shutdown status or completely retire the plant and perform full plant demolition.

Decommissioning Study / Confidential Client
Upper Midwest / 2013

Project manager on a decommissioning study for a coal fired generating facility in the upper Midwest. The study included phasing the retirement dates of portions of the facility and performing selective demolition as appropriate with full demolition to be complete at the end of useful life of the entire facility. The study also included evaluating potential value of equipment for sale on the secondary market.

Decommissioning Study / Confidential Client
Ohio River Valley / 2013

Project manager on a decommissioning study for two coal fired generating facilities in the Ohio River Valley. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful life. The costs are being used for planning purposes by the client.

Decommissioning Study / EDP Renewables
Illinois / 2013

Project manager on a decommissioning study for a wind farm being developed in New York. The evaluation was performed to determine the costs to demolish the units and restore the site at the end of its useful life to support Calpine's application to construct a major electric generating facility under Article 10 of the New York Public Service Law. Subsequent to the study, Jeff will be available to provide written testimony in the Article 10 public hearings regarding the study findings.

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Strategic Site Selection Study / Confidential Client

Western Kansas / 2012

Lead on a strategic site selection study for a new natural gas fired generation resource in the state of Kansas. The study resulted in the identification of multiple viable site alternatives to support the natural gas-fired generation options under consideration.

Due Diligence / Confidential Client

Northeast / 2012

Project manager for a due diligence evaluation of a coal-fired generating facility being offered for sale. The client was considering acquiring the assets from the current owner. The evaluation includes a technical, environmental, and contractual review of the coal fired generation facility.

Due Diligence / Old Dominion Electric Cooperative

Pennsylvania / 2012

Jeff provided support for a due diligence evaluation of a facility under development, that included a 2-on-1 combined cycle power block, being offered for sale. The client was considering acquiring the site from the current owner. The evaluation included a technical, environmental, and contractual review of the combined cycle generation facility. The evaluation included a review of existing agreements and permits in place to facilitate development of the generation resource. The project also included a review of the project capital costs to determine whether the costs were reasonable, and to identify any gaps that may increase the overall project cost.

Due Diligence / Old Dominion Electric Cooperative

New Jersey / 2012

Project manager for a due diligence evaluation of a facility that was under construction at the time, and was being offered for sale. The client was considering acquiring the 2-on-1 combined cycle power generating facility, from the current owner. The evaluation included a technical, environmental, and contractual review of the including a review of existing agreements and permits in place. The project also included a review of the project capital costs to determine whether the costs were reasonable, and to identify any gaps that may increase the overall project cost.

Due Diligence / Old Dominion Electric Cooperative

Virginia / 2012

Project manager for a due diligence evaluation of a facility under development, that included a 2-on-1 combined cycle power block, being offered for sale. The client was considering acquiring the site from the current owner. The evaluation included a technical, environmental, and contractual review of the combined cycle generation facility. The evaluation included a review of existing agreements and permits in place to facilitate development of the generation resource. The project also included a review of the project capital costs to determine whether the costs were reasonable, and to identify any gaps that may increase the overall project cost.

Due Diligence / Confidential Client

Southeast / 2012

Jeff assisted with a due diligence evaluation of a facility that includes two, 2-on-1 combined cycle power blocks, being offered for sale. The client was considering acquiring the assets from the current owner. The evaluation included a technical, environmental, and contractual review of the combined cycle generation facility.

Development Assistance / Tenaska

Ohio / 2012

Project manager assisting a client with the preparation of a Certificate of Environmental Compatibility and Public Need for conversion of an existing simple cycle facility to combined cycle. The facility includes five combustion turbines, four of which will be converted to two, 2-on-1 combined cycle power blocks. The project includes full preparation of the Certificate of Environmental Compatibility and Public Need application, as well as public meeting support.

Repower Assessment / Confidential Client

North Dakota / 2011

Jeff assisted a client with an evaluation comparing the economic viability of retrofitting an existing coal-fired power plant with air quality control system equipment in comparison to replacing the plant with new natural gas fired generation. The project includes preparing capital cost estimates; operating and maintenance cost estimates, and determining the net present value of each alternative evaluate the relative economic attractiveness of each alternative.

Decommissioning Study / Progress Energy

North Carolina & South Carolina / 2011

Project manager on a decommissioning study for the entire fleet of power generating facilities owned by Progress Energy Carolinas. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives. The evaluation included several coal-fired plants, as well as several natural gas-fired and fuel oil-fired units.

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Decommissioning Study / Minnesota Power

Minnesota / 2011

Project manager on a decommissioning study for several power generating facilities owned by Minnesota Power. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives. The evaluation included three coal-fired plants and a biomass fired facility. .

Strategic Site Selection Study / Old Dominion Electric Cooperative

Virginia, Maryland, Pennsylvania, Delaware / 2011

Project manager on a strategic site selection study for a 750 MW combined cycle facility. The study resulted in the identification of multiple viable site alternatives to support the natural gas-fired generation option under consideration.

Due Diligence Evaluation / Old Dominion Electric Cooperative

Pennsylvania / 2011

Project manager on a due diligence evaluation of a 2-on-1 combined cycle facility being offered for sale by Liberty Electric in Pennsylvania. The client was considering acquiring the assets from the current owner. The evaluation included a technical, environmental, and contractual review of the combined cycle generation facility.

Due Diligence Evaluation / Tyr Energy

Florida / 2011

Project manager on a due diligence evaluation of a biomass power generating facility under development by American Renewables. The client was considering an equity investment in the facility. The evaluation included a 100 MW bubbling fluidized bed boiler and steam turbine**.**

Due Diligence Evaluation / Electric Cooperative

Maryland / 2011

Project manager on a due diligence evaluation of a combined cycle facility under development in Maryland. The client was considering acquiring the site and all the development rights for installation of a 2-on-1 combined cycle facility. The evaluation included a review of existing agreements and permits in place to facilitate development of the generation resource.

Decommissioning Study / Tampa Electric Co.

Florida / 2011

Project manager on a decommissioning study for the power generating facilities owned by Tampa Electric Company. The evaluation was performed to determine the costs to demolish the units and restore the sites at the end of their useful lives. The evaluation included a coal-fired plant, an integrated gasification combined cycle plant, and several natural gas-fired units.

Decommissioning Study / Confidential Client

Illinois / 2011

Project manager for a site retirement evaluation to help determine the cost to retire a 600 MW coal-fired project in Illinois at the end of its useful life. Estimates for demolition and site restoration were included in the evaluation.

Repower Assessment / Confidential Client

Minnesota / 2010

Jeff assisted a client with an evaluation comparing the economic viability of retrofitting an existing coal-fired power plant with air quality control system equipment in comparison to replacing the plant with new natural gas fired generation. The project includes preparing capital cost estimates; operating and maintenance cost estimates, and determining the net present value of each alternative evaluate the relative economic attractiveness of each alternative.

Biomass Plant Site Selection Study / Confidential Client

Texas / 2010

Project manager for a Site Selection Study for a Biomass project to be located in Texas. The project included ranking of candidate sites to determine a preferred site for development of a 20 MW biomass power generating facility.

Due Diligence Evaluation / Tyr Energy

Multiple Locations / 2010

Project manager on a due diligence evaluation for several natural gas-fired facilities being offered for sale by Tenaska. The client was considering an equity investment in the facilities. The evaluation included four combined cycle facilities and one simple cycle facility.

Power Plant Valuation Assessment / Basin Electric Power Cooperative

North Dakota / 2010

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Project manager to provide a valuation assessment of the Antelope Valley Station Unit 2, which is being considered for purchase by Basin Electric Power Cooperative. The project includes valuing the 25 year old 450 MW coal fired unit in current dollars and at specified dates in the future.

Wind Farm Evaluation / Minnesota Power

North Dakota / 2010

Project manager to provide an evaluation of a proposed wind farm development in central North Dakota. The project includes wind resource assessments, conceptual engineering design, capital cost estimates, and estimated busbar costs for development of wind farm project in phases on the land currently under contract.

Decommissioning Cost Evaluations / Horizon Wind Energy

Midwest / 2008-2010

Project manager on multiple site retirement cost evaluations for several proposed wind energy facilities under development by Horizon Wind Energy. The evaluations were performed to support permitting activities on the facilities.

Due Diligence Evaluation / Tyr Energy

Hawaii / 2010

Project manager on a due diligence evaluation for a biomass gasification generating facility under development in Hawaii. The client was considering the facility for investment. The evaluation included a Primenergy gasifier with a net plant output of approximately 12 MW.

Project Development Assistance / Tradewind Energy

Kansas / 2009-2010

Project manager to provide development assistance on a wind farm facility in Southern Kansas. The development assistance includes support on land acquisition efforts for the project, transmission line routing and preliminary design, power collection system preliminary design, and general project development assistance.

Project Development Assistance / Tradewind Energy

Missouri / 2007-2010

Project manager to provide development assistance on two wind turbine facilities in Northern Missouri. The development assistance includes support on land acquisition efforts for the project, transmission line routing and preliminary design, power collection system preliminary design, and general project development assistance.

Decommissioning Cost Evaluation / Northern Indiana Public Service Co.

Indiana / 2008

Project manager on a site retirement cost evaluation for several generating facilities owned by NIPSCO. The evaluation was performed to determine the costs to demolish the units and restore the sites and included several coal-fired facilities and a combined cycle generating facility.

Due Diligence Evaluation / Grays Harbor Public Utility District

Washington / 2008

Project manager on a due diligence evaluation for a biomass-fired cogeneration facility being offered for sale in Washington. The facility evaluated was a paper mill that had been shutdown for several years. The facility included a wood waste fired boiler that provided steam to a steam turbine for electric power generation as well as providing plant process steam.

Due Diligence Evaluation / Tyr Energy

New Mexico / 2008

Project manager on a due diligence evaluation for a natural gas-fired power generating facility being offered for sale in New Mexico. The evaluation included two Mitsubishi 501F combustion turbines operating in combined cycle mode.

Decommissioning Cost Evaluation / Horizon Wind Energy

Illinois / 2008

Project manager on a site retirement cost evaluation for a wind farm being proposed by Horizon Wind Energy in Illinois. The evaluation was performed to determine the costs to demolish the units and restore the sites to meet the county zoning requirements.

Due Diligence Evaluation / Tyr Energy

Western U.S. / 2008

Project manager on a due diligence evaluation for several natural gas-fired power generating facilities being offered for sale throughout the western United States. The evaluation included several GE LM6000 combustion turbines operating in simple cycle mode, several GE LM6000 combustion turbines operating in combined cycle mode, one GE 7EA

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combustion turbine operating in combined cycle mode, and one GE 7FA combustion turbine operating in simple cycle mode.

Due Diligence Evaluation / Tyr Energy
Virginia / 2007

Project manager on a due diligence evaluation for a generating facility being offered for sale in Virginia. The evaluation included 7 GE LM6000 fuel oil fired combustion turbines operating in simple cycle mode.

Due Diligence Evaluation / Tyr Energy
Colorado / 2007

Project manager on a due diligence evaluation for 5 GE LM6000 combustion turbines operating in combined cycle cogeneration mode with 2 steam turbines. The facility includes a greenhouse that serves as the plant's thermal host for cogeneration operations.

Project Development Assistance / Mesa Wind Power
Texas / 2007

Jeff provided development assistance on a 4,000 MW wind turbine facility located in the panhandle of Texas. The development assistance includes pro forma economic modeling of the project.

Due Diligence Evaluation / Kelson Energy
Ohio / 2007

Project manager on a due diligence evaluation for a generating facility being offered for sale in Ohio. The evaluation included a partially constructed 2x1 Siemens Westinghouse 7FA combined cycle generating facility.

Due Diligence Evaluation / Grand River Dam Authority
Oklahoma / 2007

Project manager on a due diligence evaluation for a generating facility being offered for sale in Oklahoma. The evaluation included a 4x2 GE 7FA combined cycle generating facility.

Due Diligence Evaluation / Brazos Electric Power Cooperative
Texas / 2007

Project manager on a due diligence evaluation for the purchase of an equity share of a generating facility being constructed in Texas. The evaluation included an 890 MW supercritical pulverized coal fired generating facility.

Due Diligence Evaluation / Tyr Energy
Florida / 2007

Project manager on a due diligence evaluation for a generating facility being offered for sale in Florida. The evaluation included 3 GE 7FA combustion turbines operating in simple cycle mode. .

Cost Estimate Preparation / Direct Energy
Texas / 2007

Project manager for the preparation of planning level cost estimates for a new combined cycle facility to be constructed in Texas.

Due Diligence Evaluation / Tyr Energy
Various U.S Locations / 2007

Project manager on a due diligence evaluation for several generating facilities being offered for sale throughout the U.S. The evaluation included a coal, natural gas, and wind power facilities.

Owner's Engineer Services / Grays Harbor PUD
Washington / 2007

Project manager on an owner's engineer project to evaluate the plans for installation of a refurbished steam turbine at a paper mill. The evaluation included the review of the design for the installation of a 7 MW steam turbine.

Decommissioning Cost Evaluation / Tyr Energy
Various U.S Locations / 2007

Project manager on a site retirement cost evaluation for several generating facilities owned by Tyr Energy. The evaluation was performed to satisfy FASB 143 accounting standards and included a simple cycle and combined cycle generating facilities.

Due Diligence Evaluation / Tyr Energy
Virginia / 2006-2007

Project manager on a due diligence evaluation for a generating facility being offered for sale in Virginia. The evaluation included a 240 MW subcritical pulverized coal fired facility.

Due Diligence Evaluation / Brazos Electric Power Cooperative
Texas / 2006

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS
DOCKET NO. E-7 Sub 1276

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Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net	Projected Installation O&M
1	2026 Solar Investment	Other Production Plant in Service	6/1/2026	Procurement of 165 MWs achieving in-service June 1, 2026	Meets new solar generation resources established in IRP, encourages carbon reduction through utility scale solar energy, and supports the solar procurements targets established for the 2022 Solar Procurement RFP	$ 246,015,587	$1,151,843.39	$ -
	TOTALS					**$ 246,015,587**	**$ 1,151,843**	**$ -**

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Docket No. E-7, Sub 1276
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Below is a map showing the approximate locations of all utility track bids submitted into the 2022 Solar Procurement Request for Proposals ("RFP").



2022 Solar Procurement Program Bid Evaluation and Selection Process:

As outlined in the 2022 Solar Procurement Program RFP, DEC will evaluate each bid and rank bids based on a combination of economic and non-economic criteria. The RFP defines the criteria and guidance for each aspect of the evaluation process, i.e., economic and non-economic, including the scoring sheet that will be used to facilitate the evaluations.

Non-economic scoring criteria includes: facility permitting, financing experience, technical development and operational experience, historically underutilized businesses, development risks, technology risks, and social objectives and environmental factors. Economic scoring and evaluation is based on calculating each bid's levelized cost of energy over a 30-year analysis period on a dollar per megawatt hour basis.

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Cost Estimate

Project Name:	2026 Solar Investment
MW(ac):	165.0
MW(dc):	231.0

a. Cost Breakdown	Estimate	Guidehouse %	b. Description
PV Modules*	[redacted]	[redacted]	PV modules.
Inverters*			Inverters.
Electrical BOS*			Electrical Balance of System.
Structural BOS*			Structural (racking, assumes fixed tilt) Balance of System.
Tracking Adder*			Adder for tracker racking system.
Direct Labor*			Install labor.
Engineering and PII*			Engineering.
Supply Chain, OH, EPC Margin*			Supply Chain, overhead and EPC margin.
Owners Cost*			Owner's costs including: construction oversight, engineering reviews, development, etc.
Interconnection*			Interconnection costs.
Contingency			Contingency.
AFUDC			AFUDC.
Total Project Cost Estimate	**$ 246,015,587**		

Notes:
[redacted]

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Present Value Revenue Requirement ("PVRR") Scenario Comparison		
		($000s)
Scenario	Normalize ITC / PTC	2026 Solar Investment
1) PTC Transfer	[redacted]	[redacted]
2) PTC Usage in 2031		
3) ITC Transfer		
4) ITC Usage in 2031		
5) ITC Transfer		

The comparison table above provides and summarizes the present value of revenue requirements ("PVRR") under various PTC and ITC scenarios. The third column lists the PVRR values and represents the present value of the funds that need to be collected from customers (to recover the investment and operating expenses). Tax credits (i.e. the PTC or ITC) are used to offset or lower the revenue requirements to customers. When comparing the PVRRs for each scenario, the two PTC scenarios (#1 and #2) yield the lowest PVRRs, thus demonstrating that the PTC would be preferred over the ITC and provides the most value for DEC customers.

Note: There is still uncertainty around various assumptions in this analysis. DEC will continue evaluating PTC vs ITC options as more information is available.

All scenarios assume the base tax credit and prevailing wage and apprenticeship standards are met; however, each scenario excludes domestic content and energy community bonuses.

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MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

LaRoche Supplemental Exhibit 1
Docket No. E-7, Sub 1276
Page 1 of 1

						Total Project Amount (System)		
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	2026 Solar Investment	Other Production Plant in Service, Transmission Plant in Service	Jun-26	Procurement of 124.2 MWs achieving in-service June 1, 2026	Meets new solar generation resources established in IRP, encourages carbon reduction through utility scale solar energy, and supports the solar procurements targets established for the 2022 Solar Procurement RFP	$ 193,894,000	$ 1,052,747	$ -
2	2026 Solar Investment - Selected Solar	Other Production Plant in Service, Transmission Plant in Service	Jun-26	2022 Solar Procurement RFP early winner project achieving in-service June 1, 2026	Meets new solar generation resources established in IRP, encourages carbon reduction through utility scale solar energy, and supports the solar procurements targets established for the 2022 Solar Procurement RFP	$ 63,618,000	$ 454,502	$ -
	TOTALS					$ 257,512,000	$ 1,507,249	$ -

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

LaRoche Supplemental Exhibit 2
Docket No. E-7, Sub 1276

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			Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
1	2026 Solar Investment	Other Production Plant in Service, Transmission Plant in Service	Jun-26	$ 246,015,587	$ 1,151,843	$ -	Jun-26	$ 193,894,000	$ 1,052,747	$ -	Project > $10M
2	2026 Solar Investment - Selected Solar	Other Production Plant in Service, Transmission Plant in Service					Jun-26	$ 63,618,000	$ 454,502	$ -	Project Added
	TOTALS			**$ 246,015,587**	**$ 1,151,843**	$ -		**$ 257,512,000**	**$ 1,507,249**	$ -	

* Note Necessary transmission network upgrades are within the scope of this project. Estimated costs of those upgrades were determined and provided to Witness Abernathy for use in calculating the NC Retail revenue requirement and the FERC Function for each project was updated accordingly.

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PVRR Scenario Comparison			
		PVRR ($000s)	
Scenario	Normalize ITC / PTC	2026 Solar Investment	Selected Solar
1) PTC Transfer	No	[redacted]	[redacted]
2) PTC Usage in 2031	No		
3) ITC Transfer	Yes		
4) ITC Usage in 2031	Yes		
5) ITC Transfer	No		

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - THIRD SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

LaRoche Second Supplemental Exhibit 1
Docket No. E-7, Sub 1276
Page 1 of 1

						Total Project Amount (System)		
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	2026 Solar Investment	Other Production Plant in Service Transmission Plant in Service	Jun-26	2022 Solar Procurement RFP final winner project achieving in-service June 1, 2026	Meets new solar generation resources established in IRP, encourages carbon reduction through utility scale solar energy, and supports the solar procurements targets established for the 2022 Solar Procurement RFP	$ 70,799,273	$ 481,246	$ -
2	2026 Solar Investment - Selected Solar	Other Production Plant in Service Transmission Plant in Service	Jun-26	2022 Solar Procurement RFP early winner project achieving in-service June 1, 2026	Meets new solar generation resources established in IRP, encourages carbon reduction through utility scale solar energy, and supports the solar procurements targets established for the 2022 Solar Procurement RFP	$ 63,618,000	$ 454,502	$ -
	TOTALS					$ 134,417,273	$ 935,748	$ -

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Project location map:



Preliminary Site Layout:



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PVRR Scenario Comparison		
		($000s)
Scenario	Normalize ITC / PTC	2026 Solar Investment
1) PTC Transfer	No	[redacted]
2) PTC Usage in 2031	No	[redacted]
3) ITC Transfer	Yes	[redacted]
4) ITC Usage in 2031	Yes	[redacted]
5) ITC Transfer	No	[redacted]

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Duke Energy Carolinas, LLC
Balance Sheet
As of December 31, 2021

Line No.		Amount
	ASSETS	
	UTILITY PLANT	
1	Utility Plant (101-106,114)	$ 48,083,730,849
2	Construction Work in Progress (107)	2,074,674,520
3	Total Utility Plant	50,158,405,369
4	(Less) Accum Prov for Depr Amort Depl (108, 110, 111, 115)	18,092,066,058
5	Net Utility Plant	32,066,339,311
6	Nuclear Fuel in Process of Ref , Conv , Enrich , and Fab (120 1)	323,922,465
7	Nuclear Materials and Assemblies - Stock Account (120 2)	1
8	Nuclear Fuel Assemblies in Reactor (120 3)	1,072,507,768
9	Spent Nuclear Fuel (120 4)	466,390,240
10	(Less) Accum Provision for Amort of Nuclear Fuel Assemblies (120 5)	1,070,439,997
11	Net Nuclear Fuel	792,380,476
12	Total Utility Plant, Net	32,858,719,788
13	Utility Plant Adjustments (116)	1,012,652
	OTHER PROPERTY & INVESTMENTS	
14	Non Utility Property (121)	142,257,197
15	(Less) Accum Prov for Depr and Amort (122)	51,806,699
16	Investment in Subsidiary Companies (123 1)	13,114,590
17	Other Investments (124)	95,984
18	Other Special Funds (128)	6,221,233,397
19	Long Term Portion of Derivative Assets - Hedges (176)	48,154,229
20	Total Other Property and Investments	6,373,048,698
	CURRENT AND ACCRUED ASSETS	
21	Cash (131)	7,123,317
22	Working Funds (135)	300,000
23	Customer Accounts Receivable (142)	651,279,578
24	Other Accounts Receivable (143)	192,204,348
25	(Less) Accum Prov for Uncollectible Account - Credit (144)	41,521,659
26	Note Receivable from Associated Companies (145)	1,186,050
27	Accounts Receivable from Associated Companies (146)	198,841,223
28	Fuel Stock (151)	237,479,722
29	Plant Material and Operating Supplies (154)	742,724,654
30	Other Materials and Supplies (156)	(73,366)
31	Allowances (158 1 and 158 2)	73,571,212
32	Store Expenses Undistributed (163)	46,246,014
33	Prepayments (165)	31,159,798
34	Interest and Dividends Receivable (171)	529,304
35	Rents Receivable (172)	356,340
36	Accrued Utility Revenue (173)	273,671,078
37	Miscellaneous Current and Accrued Assets (174)	8,633,432
38	Derivative Instrument Assets Hedges (176)	131,569,284
39	(Less) Long Term Portion of Derivative Instruments Assets - Hedges	48,154,229
40	Total Current and Accrued Assets	2,507,126,100
	DEFERRED DEBITS	
41	Unamortized Debt Expenses (181)	66,290,421
42	Unrecovered Plant and Regulatory Study Costs (182 2)	302,153,769
43	Other Regulatory Assets (182 3)	3,225,787,621
44	Preliminary Survey and Investigation Charges (183)	13,210,991
45	Clearing Accounts (184)	896,038
46	Miscellaneous Deferred Debits (186)	748,143,187
47	Unamortized Loss on Reaquired Debt (189)	41,138,005
48	Accumulated Deferred Income Taxes (190)	3,461,784,968
49	Total Deferred Debits	7,859,405,000
50	**Total Assets**	**$ 49,599,312,238**

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Line No.		Amount
	CAPITALIZATION AND LIABILITIES	
	PROPRIETARY CAPITAL	
1	Other Paid In Capital (208-211)	$ 3,725,067,850
2	Retained Earnings (215, 215 1, 216)	10,169,724,576
3	Unappropriated Undistributed Subsidiary Earnings (216 1)	4,810,163
4	Accumulated Other Comprehensive Income (219)	(6,455,552)
5	Total Proprietary Capital	13,893,147,037
	LONG-TERM DEBT	
6	Bonds (221)	11,656,738,919
7	Advances from Associated Companies (223)	300,000,000
8	Other Long Term Debt (224)	860,271,405
9	Unamortized Premium on Long-Term Debt (225)	2,963,512
10	(Less) Unamortized Discount on LT Debt (226)	23,669,305
11	Total Long Term Debt	12,796,304,531
	OTHER NONCURRENT LIABILITIES	
12	Obligations Under Capital Leases (227)	361,697,908
13	Accumulated Provision for Property Insurance (228 1)	139,718,367
14	Accumulated Provision for Injuries and Damages (228 2)	503,719,459
15	Accumulated Provision for Pensions and Benefits (228 3)	37,929,750
16	Accumulated Miscellaneous Operating Provisions (228 4)	807,716
17	Accumulated Provision for Rate Refund (229)	5,178,059
18	LT Portion of Derivative Instrument Liabilities - Hedges	1,444,109
19	Asset Retirement Obligations (230)	5,301,158,092
20	Total Other NonCurrent Liabilities	6,351,653,460
	CURRENT AND ACCRUED LIABILITIES	
21	Accounts Payable (232)	958,467,951
22	Notes Payable to Associated Companies (233)	226,415,000
23	Accounts Payable to Associated Companies (234)	306,555,280
24	Customer Deposits (235)	68,369,287
25	Taxes Accrued (236)	253,086,975
26	Interest Accrued (237)	124,260,511
27	Tax Collections Payable (241)	16,535,914
28	Miscellaneous Current and Accrued Liabilities (242)	508,975,825
29	Obligations Under Capital Leases - Current (243)	27,575,734
30	Derivative Instrument Liabilities (244)	8,633,432
31	Derivative Instrument Liabilities - Hedges (245)	13,192,701
32	(Less) LT Portion of Derivative Instrument Liabilities - Hedges	1,444,109
33	Total Current and Accrued Liabilities	2,510,624,501
	DEFFERED CREDITS	
34	Accumulated Deferred Investment Tax Credits (255)	287,006,804
35	Other Deferred Credits (253)	882,014,410
36	Other Regulatory Liabilities (254)	5,783,960,664
37	Accumulated Deferred Income Taxes Oth Property (282)	4,764,247,775
38	Accum Deferred Income Tax Other (283)	2,330,353,056
39	Total Deferred Credits	14,047,582,709
40	**Total Capitalization and Liabilities**	**$ 49,599,312,238**

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Line No.		Amount
1	**Operating Revenues (400)**	$ 7,100,634,161
	Operating Expenses	
2	Operation Expenses (401)	2,796,367,900
3	Maintenance Expenses (402)	517,128,775
4	Depreciation Expenses (403)	1,173,115,743
5	Depreciation Expense for Asset Retirement Costs (403.1)	4,435,886
6	Amortization and Depletion of Utility Plant (404-405)	71,285,844
7	Amortization of Prop Loss, Unrecov Plant and Reg Strudy Cost (407)	45,427,295
8	Regulatory Debits (407.3)	240,590,871
9	(Less) Regulatory Credits (407.4)	28,532,715
10	(Less) Gains from Disposition of Utility Plant (411.6)	1,161
11	Losses from Disposition Utility Plant (411.7)	699,120
12	Accretion Expense (411.10)	1,440,319
13	Total Depreciation and Amortization Expenses	1,508,461,202
14	Taxes Other Than Income Taxes (408.1)	320,409,756
15	Total Operating Expense Before Income Taxes	5,142,367,633
16	Income Taxes Federal (409.1)	252,908,008
17	Income Tax - Other (409.1)	27,717,829
18	Provision for Deferred Income Taxes (410.1)	1,606,673,593
19	(Less) Provision for Deferred Income Tax Credit (411.1)	1,810,725,377
20	Investment Tax Credit Adjustment Net (411.4)	(3,959,622)
21	Total Income Taxes On Operating Income	72,614,431
22	**Total Utility Operating Expenses**	**5,214,982,064**
23	**Net Utility Operating Income**	**1,885,652,097**
	Other Income	
24	(Less) Costs and Exp. of Merchandising, Job & Contract Work (416)	11,733
25	Revenues from Nonutility Operations (417)	43,055,272
26	(Less) Expenses of Nonutility Operations (417.1)	20,106,907
27	Non Operating Rental Income (418)	(4,093,218)
28	Interest and Dividend Income (419)	3,671,900
29	Allowance for Other Funds Under Construction (419.1)	65,129,106
30	Miscellaneous Nonoperating Income (421)	121,318,078
31	Gain On Disposal Of Property (421.1)	2,129,676
32	Total Other Income	211,092,174
	Other Income Deductions	
33	Loss on Disposition of Property (421.2)	(423,888)
34	Miscellaneous Amortization (425)	3,001
35	Donations (426.1)	7,227,333
36	Life Insurance (426.2)	(211,481)
37	Penalties (426.3)	521,500
38	Exp. For Certain Civic, Political and Related Activity (426.4)	7,728,674
39	Other Deductions (426.5)	230,840,389
40	Total Other Income Deductions	245,685,528
	Taxes Applicable to Other Income and Deductions	
41	Taxes Other than Income Taxes (408.2)	(651,756)
42	Income Taxes - Federal (409.2)	(11,460,948)
43	Income Tax Non Utility (409.2)	(4,337,427)
44	Provision for Deferred Income Taxes (410.2)	11,010,016
45	(Less) Provision for Deferred Income Taxes - Cr (411.2)	16,657,025
46	Total Taxes on Other Income and Deductions	(22,097,140)
47	**Net Other Income and Deductions**	**(12,496,214)**
	Interest Charges	
48	Total Interest on Long - Term Debt (427)	479,560,490
49	Amortization of Debt Discount and Exp (428)	8,004,083
50	Amortization of Loss on Reaquired Debt (428.1)	6,403,404
51	(Less) Amort. on Premium of Debt-Credit (429)	107,287
52	Interest on Debt to Associated Companies (430)	998,262
53	Other Interest Expense (431)	70,418,380
54	(Less) Allowance for Borrowed Funds Used During Construction - Cr (432)	28,714,347
55	Net Interest Charges	536,562,985
56	**Income Before Extraordinary Items**	**1,336,592,898**
57	**Net Income**	**$ 1,336,592,898**

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Long-Term Debt

Line Number	Description	Rate	Interest Type	Maturity Date	Outstanding Balance	Percent of Total
1	Commercial Paper LTD	0 235%	Floating	03/16/26	300,000,000	
2	First Mortgage Bond	8 950%	Fixed	07/01/27	6,738,919	
3	First Mortgage Bond	6 050%	Fixed	04/15/38	600,000,000	
4	First Mortgage Bond	6 000%	Fixed	01/15/38	500,000,000	
5	First Mortgage Bond	5 300%	Fixed	02/15/40	750,000,000	
6	First Mortgage Bond	2 500%	Fixed	03/15/23	500,000,000	
7	First Mortgage Bond	3 875%	Fixed	03/15/46	500,000,000	
8	First Mortgage Bond	2 950%	Fixed	12/01/26	600,000,000	
9	First Mortgage Bond	3 050%	Fixed	03/15/23	500,000,000	
10	First Mortgage Bond	3 950%	Fixed	03/15/48	500,000,000	
11	First Mortgage Bond	3 350%	Fixed	05/15/22	350,000,000	
12	First Mortgage Bond	3 950%	Fixed	11/15/28	650,000,000	
13	First Mortgage Bond	3 700%	Fixed	12/01/47	550,000,000	
14	First Mortgage Bond	4 250%	Fixed	12/15/41	650,000,000	
15	First Mortgage Bond	4 000%	Fixed	09/30/42	650,000,000	
16	First Mortgage Bond	3 750%	Fixed	06/01/45	500,000,000	
17	First Mortgage Bond	2 450%	Fixed	08/15/29	450,000,000	
18	First Mortgage Bond	3 200%	Fixed	08/15/49	750,000,000	
19	First Mortgage Bond	2 450%	Fixed	02/01/30	500,000,000	
20	First Mortgage Bond	2 550%	Fixed	04/15/31	550,000,000	
21	First Mortgage Bond	3 450%	Fixed	04/15/51	450,000,000	
22	Unsecured Debt	6 000%	Fixed	12/01/28	300,000,000	
23	Unsecured Debt	6 450%	Fixed	10/15/32	350,000,000	
24	Unsecured Debt	6 100%	Fixed	06/01/37	500,000,000	
25	Bond Lease Financing	3 664%	Fixed	12/31/52	381,586,759	
26	Secured Debt - Duke Energy Receivables Financing, LLC	0 871%	Floating	12/13/22	290,277,778	
27	Secured Debt - Duke Energy Receivables Financing, LLC	0 871%	Floating	12/13/22	184,722,222	
28	Gains on Terminated Swaps				3,684,646	
29	Unamortized Debt (Discount)/Premium				(20,705,793)	
30	**Total Long Term Debt**				**$ 12,796,304,531**	
31	Capital Leases				$ 289,650,592	
32	**Total Long Term Debt and Capital Leases**				**$ 13,085,955,123**	**48.5%**

Regulatory Common Equity

33	Other Paid in Capital				$ 3,725,067,850	
34	Retained Earnings				10,174,534,739	
35	Accumulated Other Comprehensive Income				(6,455,552)	
36	**Total Common Equity**				**$ 13,893,147,037**	**51.5%**
37	**Total Regulatory Capitalization**				**$ 26,979,102,160**	**100.0%**

Duke Energy Carolinas, LLC
Cash Working Capital for NC Retail Operations - Lead Lag Summary
For the Test Period Ended December 31, 2021
Dollars in Thousands

Speros Exhibit 2
Docket No. E-7, Sub 1276

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Line No.		NC Retail Jurisdictional Amount [A]	Lead \Lag Days [B]	Weighted Amount [C]
	Calculation of NC Retail Amount:			
1	Total Revenue Lag	$ 4,823,959	40.17	$ 193,781,373
2	Operation and Maintenance Expense	$ 2,274,985	32.50	$ 73,938,507
3	Depreciation and Amortization	1,033,226	0.00	0
4	Taxes Other Than Income Taxes	212,490	180.79	38,415,863
5	Interest on Customer Deposits	5,652	218.40	1,234,302
6	Income Taxes	15,836	521.75	8,262,351
7	Investment of Tax Credit	(2,830)	0.00	0
8	Net Operating Income	1,284,599	23.75	30,509,761
9	**Total Requirements (Sum L2 through L8)**	$ 4,823,959	31.58	$ 152,360,784
10	Revenue Lag Days (L1)		40.17	
11	Requirement Lead Days (L9)		31.58	
12	Net Lag Days (L10 - L11)		8.59	
13	Daily Requirements (Line 9, Col. A divided by 365)			$ 13,216
14	Cash Working Capital Requirements (L13 x L12)			113,481
15	Working Capital Related to NC Sales Tax			9,397
16	Total Cash Working Capital Requirements			$ 122,878
17	**Calculation of Total Company and Jurisdictional Amounts:**			
18	NC Retail: Cash Working Capital allocated at Net Plant Allocator (All - Net Plant - Jur)			68.2877%
19	Total Company Cash Working Capital Requirements (L16 / L18)			$ 179,942
20	NC Retail Factor			68.2877%
21	SC Retail Factor			0.0000%
22	Total Wholesale Factor			0.0000%
23	Total (Sum L20 through L22)			68.2877%
24	NC Retail Cash Working Capital Requirement (L19 x L20)			$ 122,878
25	SC Retail Cash Working Capital Requirement (L19 x L21)			-
26	Total Wholesale Cash Working Capital Requirement (L19 x L22)			-
27	**Total Company Cash Working Capital Requirement (Sum L24 through L26)**			**$ 122,878**

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Decommissioning Cost Estimate Study

Duke Energy Carolinas

Decommissioning Cost Estimate
Project No. 144936

6/10/2022



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TABLE OF CONTENTS

Page No.

1.0 EXECUTIVE SUMMARY....1
1.1 Introduction....1
1.2 Results....1

2.0 INTRODUCTION....4
2.1 Background....4
2.2 Methodology....4
2.3 Site Visits....4

3.0 PLANT DESCRIPTIONS....6
3.1 Simple Cycle / Combustion Turbines....6
3.1.1 Clemson....6
3.1.2 Lincoln....6
3.1.3 Mill Creek....6
3.1.4 Rockingham....6
3.1.5 W.S. Lee CTs....6
3.2 Combined Cycles....6
3.2.1 Buck....6
3.2.2 Dan River....6
3.2.3 W.S. Lee Combined Cycle....7
3.3 Natural Gas Fired Boiler....7
3.3.1 W.S. Lee....7
3.4 Coal Generation....7
3.4.1 Allen....7
3.4.2 Belews Creek....7
3.4.3 Cliffside....7
3.4.4 Marshall....7
3.5 Solar....8
3.5.1 Gaston....8
3.5.2 Maiden Creek....8
3.5.3 Mocksville....8
3.5.4 Monroe....8
3.5.5 Woodleaf....8
3.6 Pumped Hydro Storage....8
3.6.1 Bad Creek....8
3.6.2 Jocassee....8
3.7 Conventional Hydro....8
3.7.1 99 Islands....8
3.7.2 Bear Creek....9
3.7.3 Bridgewater....9
3.7.4 Cedar Cliff....9
3.7.5 Cedar Creek....9
3.7.6 Cowans Ford....9
3.7.7 Dearborn....9
3.7.8 Fishing Creek....9
3.7.9 Gaston Shoals....9
3.7.10 Great Falls....9

OFFICIAL COPY
Oct 02 2023

3.7.11 Keowee 10
3.7.12 Lookout Shoals 10
3.7.13 Mountain Island 10
3.7.14 Nantahala 10
3.7.15 Oxford 10
3.7.16 Queens Creek 10
3.7.17 Rhodhiss 10
3.7.18 Rocky Creek 10
3.7.19 Tennessee Creek 10
3.7.20 Thorpe 11
3.7.21 Tuckasegee 11
3.7.22 Wateree 11
3.7.23 Wylie 11

4.0 DECOMMISSIONING COSTS 12
4.1 General Assumptions 13
4.2 Site Specific Assumptions 17
4.2.1 Hydroelectric Sites 17
4.2.2 Allen 18
4.2.3 Bad Creek 18
4.2.4 Belews Creek 18
4.2.5 Buck 18
4.2.6 Clemson 18
4.2.7 Cliffside 18
4.2.8 Dan River 18
4.2.9 Gaston 19
4.2.10 Lincoln 19
4.2.11 Maiden Creek 19
4.2.12 Marshall 19
4.2.13 Mill Creek 19
4.2.14 Mocksville 19
4.2.15 Monroe 19
4.2.16 Rockingham 19
4.2.17 Woodleaf 19
4.2.18 WS Lee 19
4.2.19 WS Lee Combined Cycle 20
4.2.20 WS Lee Simple Cycle 20

5.0 RESULTS 21

APPENDIX A – COST ESTIMATE SUMMARIES
APPENDIX B – PLANT AERIALS

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Oct 02 2023

LIST OF TABLES

Page No.

Table 1-1: Decommissioning Cost Summary (2022$) 1
Table 2-1: Site Visit Dates 5
Table 4-1: Scrap Pricing 15
Table 4-2: Scrap Pricing 17
Table 5-1: Decommissioning Cost Summary (2022$) 21

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Oct 02 2023

LIST OF ABBREVIATIONS

Abbreviation	Term/Phrase/Name
1898 & Co.	1898 & Co., part of Burns & McDonnell
BOP	Balance of Plant Facilities
C&D	Construction and Demolition
CC	Combined Cycle
Client	Duke Energy Carolinas
CT	Combustion Turbine
DEC	Duke Energy Carolinas
FGD	Flue Gas Desulfurization
GE	General Electric
HDPE	High-Density Polyethylene
HRSG	Heat Recovery Steam Generator
HT	Hydraulic Turbine
Hydro	Hydroelectric
PCB	Polychlorinated Biphenyls
Plants	Power Generation Assets
SCR	Selective Catalytic Reduction
ST	Steam Turbine
Study	Decommissioning Cost Study

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

Duke Energy Carolinas ("DEC") retained 1898 & Co., a division of Burns & McDonnell Engineering Company, Inc. (hereinafter called "1898 & Co."), to conduct a Decommissioning Cost Study ("Study") for power generation assets ("Plants") located in North Carolina and South Carolina. The assets include natural gas-fired, coal-fired, hydroelectric, and solar generating facilities. The purpose of the Study was to review the facilities and to make a recommendation to DEC regarding the total cost to decommission the facilities at the end of their useful lives. The decommissioning costs were developed by 1898 & Co. using information provided by DEC and in-house data available to 1898 & Co.

1.2 Results

1898 & Co. has prepared cost estimates in 2022 dollars for the decommissioning of the Plants. These cost estimates are summarized in the following Table. When DEC determines that the Plants should be retired, the above grade equipment and steel structures are assumed to have sufficient scrap value to a scrap contractor to offset a portion of the decommissioning costs. DEC will incur costs in the demolition and restoration of the sites less the scrap value of equipment and bulk recycled metals. Additionally, DEC's on-site inventory was taken into consideration for the demolition costs. For the combustion turbine facilities, a salvage value of 25 percent was assumed. For the other Plants, 10 percent of the inventory was assumed to be salvageable. The combustion turbine facilities were assumed to have a higher inventory salvage value because spare parts for combustion turbines are more marketable and can be more easily resold to other owners/operators at a higher premium than just the scrap price of the material.

Table 1-1: Decommissioning Cost Summary (2022$)

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
99 Islands	$ 3,444,000	$ 48,000	$ (758,000)	$ (5,000)	$ 2,729,000
Allen	$ 66,380,000	$ 9,356,000	$ (33,520,000)	$ (936,000)	$ 41,280,000
Bad Creek	$ 8,376,000	$ 5,719,000	$ (11,072,000)	$ (572,000)	$ 2,451,000
Bear Creek	$ 993,000	-	$ (283,000)	-	$ 710,000
Belews Creek	$ 81,445,000	$ 33,156,000	$ (35,814,000)	$ (3,316,000)	$ 75,471,000
Bridgewater	$ 2,540,000	$ 92,000	$ (799,000)	$ (9,000)	$ 1,824,000
Buck	$ 13,340,000	$ 8,219,000	$ (8,373,000)	$ (821,900)	$ 12,364,100
Cedar Cliff	$ 1,328,000	-	$ (308,000)	-	$ 1,020,000
Cedar Creek	$ 2,191,000	$ 107,000	$ (945,000)	$ (11,000)	$ 1,342,000
Clemson	$ 719,000	$ 357,000	$ (428,000)	$ (35,700)	$ 612,300
Cliffside	$ 75,820,000	$ 28,973,000	$ (32,796,000)	$ (2,897,000)	$ 69,100,000
Cowans Ford	$ 3,816,000	$ 139,000	$ (4,196,000)	$ (14,000)	$ (255,000)

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Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
Dan River	$ 13,914,000	$ 9,857,000	$ (7,355,000)	$ (986,000)	$ 15,430,000
Dearborn	$ 2,152,000	$ 25,000	$ (1,135,000)	$ (3,000)	$ 1,039,000
Central Storeroom	-	$ 230,080	$ (23,008)	-	$ 207,072
Fishing Creek	$ 3,174,000	$ 100,000	$ (1,461,000)	$ (10,000)	$ 1,803,000
Gaston	$ 4,357,600	-	$ (2,110,400)	-	$ 2,247,200
Gaston Shoals	$ 2,418,000	-	$ (294,000)	-	$ 2,124,000
Great Falls	$ 4,967,000	$ 26,000	$ (714,000)	$ (3,000)	$ 4,276,000
Hydro Repair	-	$ 43,500	$ (4,350)	-	$ 39,150
Jocassee	$ 4,632,000	-	$ (7,224,000)	-	$ (2,592,000)
Keowee	$ 3,404,000	-	$ (2,871,000)	-	$ 533,000
Lark	$ 2,087,000	$ 62,259,000	$ (198,000)	$ (6,226,000)	$ 57,922,000
Lincoln	$ 16,874,000	$ 1,761,000	$ (16,527,000)	$ (440,000)	$ 1,668,000
Lookout Shoals	$ 2,019,000	$ 127,000	$ (773,000)	$ (13,000)	$ 1,360,000
Maiden Creek	$ 15,721,600	$ 63,700	$ (8,677,000)	$ (6,400)	$ 7,101,900
Marshall	$ 59,297,000	$ 20,743,000	$ (38,051,000)	$ (2,074,000)	$ 39,915,000
Mill Creek	$ 5,742,000	$ 766,000	$ (6,206,000)	$ (191,000)	$ 111,000
Mocksville	$ 2,963,800	-	$ (1,099,900)	-	$ 1,863,900
Monroe	$ 12,441,400	$ 45,100	$ (4,512,500)	$ (4,500)	$ 7,969,500
Mountain Island	$ 2,986,000	$ 87,000	$ (1,310,000)	$ (9,000)	$ 1,754,000
Nantahala	$ 1,857,000	$ 51,000	$ (838,000)	$ (5,000)	$ 1,065,000
Oxford	$ 1,737,000	$ 96,000	$ (898,000)	$ (10,000)	$ 925,000
Queens Creek	$ 1,132,000	-	$ (197,000)	-	$ 935,000
Rhodhiss	$ 2,150,000	$ 111,000	$ (935,000)	$ (11,000)	$ 1,315,000
Rockingham	$ 5,896,000	$ 1,689,000	$ (6,347,000)	$ (422,000)	$ 816,000
Rocky Creek	$ 4,435,000	$ 9,000	$ (1,003,000)	$ (1,000)	$ 3,440,000
Tennessee Creek	$ 2,081,000	-	$ (386,000)	-	$ 1,695,000
Thorpe	$ 3,569,000	-	$ (527,000)	-	$ 3,042,000
Tuckasegee	$ 1,871,000	-	$ (154,000)	-	$ 1,717,000
Wateree	$ 3,419,000	$ 302,000	$ (1,690,000)	$ (30,000)	$ 2,001,000
Woodleaf	$ 1,289,100	$ 9,700	$ (407,500)	$ (1,000)	$ 890,300
WS Lee CT	$ 1,848,000	-	$ (1,062,000)	-	$ 786,000

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Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
WS Lee Boiler	$ 13,753,000	$ 1,652,000	$ (4,614,000)	$ (165,000)	$ 10,626,000
WS Lee CC	$ 13,736,000	$ 4,411,000	$ (8,428,000)	$ (441,000)	$ 9,278,000
Wylie	$ 3,024,000	$ 113,000	$ (1,405,000)	$ (11,000)	$ 1,721,000

The total project costs presented above include the costs to return the sites to an industrial condition suitable for reuse for development as an industrial facility. Included are the costs to dismantle all power generating equipment and balance of plant ("BOP") facilities and, where applicable, to perform environmental site restoration activities.

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2.0 INTRODUCTION

2.1 Background

1898 & Co., a division of Burns & McDonnell Engineering Company, Inc. (hereinafter called "1898 & Co."), was retained by Duke Energy Carolinas ("DEC") to conduct a Study to estimate the decommissioning costs. The assets include natural gas-fired, coal-fired, hydroelectric, and solar generating facilities. Individuals from 1898 & Co. visited the Plants evaluated within the Study in April of 2022. The purpose of the Study was to review the facilities and to make a recommendation to DEC regarding the total cost to decommission and dismantle the facilities at the end of their useful lives. 1898 & Co. has prepared over three hundred decommissioning studies on various types of fossil fuel and renewable power plants. In addition to preparing decommissioning cost estimates, 1898 & Co. has supported demolition projects as the owner's engineer. In this capacity, 1898 & Co. has evaluated demolition bids and overseen demolition activities. This has provided 1898 & Co. with insight into a broad range of competitive demolition bids, which also assists in confirming the validity of the decommissioning and dismantling estimates developed by 1898 & Co.

2.2 Methodology

The site decommissioning costs were developed using information provided by DEC and in-house data 1898 & Co. has collected from previous project experience. 1898 & Co. estimated quantities for equipment based on a visual inspection of the facilities, reviews of engineering drawings, an in-house database of plant equipment quantities, and professional judgment. For each Plant, quantities were estimated for each required task. Current market pricing for labor rates and equipment was then developed for each task. The unit pricing was developed for each site based on the labor rates, equipment costs, and disposal costs specific to the area in which the work is to be performed. These rates were applied to the quantities for the Plants to determine the total cost of decommissioning and dismantling.

The decommissioning costs include the cost to return the site to an industrial condition, suitable for reuse for development of an industrial facility. Included are the costs to decommission and dismantle all the assets owned by DEC at the sites, including power generating equipment and Balance of Plant facilities.

2.3 Site Visits

Representatives from 1898 & Co. and DEC visited the sites in April of 2022. A representative portion of the sites was visited. The site visits consisted of a tour of each facility along with DEC representative, Amy Lowery, as well as plant personnel at each of the sites.

The following 1898 & Co. representatives comprised the site visit team:

- Mr. Stephen Henson, Project Manager
- Ms. Abigail Yi, Project Analyst
- Mr. Alec Tapia, Project Analyst

The following table outlines the dates in which the site visits were conducted.

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Table 2-1: Site Visit Dates

Plant	Site Visit Date
Dan River	April 25, 2022
Rockingham	April 25, 2022
Belews Creek	April 25, 2022
Buck	April 26, 2022
Marshall	April 26, 2022
Maiden Creek	April 26, 2022
Gaston Solar	April 26, 2022
Lincoln	April 27, 2022
Mountain Island	April 27, 2022
Allen	April 27, 2022
Mill Creek	April 28, 2022
99 Islands	April 28, 2022
Clifside	April 28, 2022
Bad Creek	April 29, 2022
Clemson	April 29, 2022
W.S. Lee	April 29, 2022

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3.0 PLANT DESCRIPTIONS

The following sections provide descriptions of the Plants included in this Study.

3.1 Simple Cycle / Combustion Turbines

3.1.1 Clemson

Clemson is located at Clemson University in Clemson, South Carolina. The asset consists of a combined heat and power plant. The plant comprises a single combustion turbine ("CT") with a rating of 13.4 MW. The unit utilizes natural gas.

3.1.2 Lincoln

Lincoln is located in Lincoln County, North Carolina, and consists of sixteen (16) General Electric ("GE") CTs. Units 1 through 16 have a combined rating of 1,193 MW and began operation in 1995. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

3.1.3 Mill Creek

Mill Creek is located in Cherokee County, South Carolina, and consists of eight (8) GE 7EA CTs. Combined, the eight natural gas-fired units have a rating of 563 MW. The plant began operation in 2002. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

3.1.4 Rockingham

Rockingham is located in Rockingham County, North Carolina, and consists of five (5) Siemens W501FD natural gas-fired CTs. Each of the five CTs have a rating of 165 MW, combining for 825 MW. The plant began operation in June of 2000. Natural gas is the primary fuel source for the plant, with fuel oil on site as a secondary source.

3.1.5 W.S. Lee CTs

W.S. Lee is located in Anderson County, South Carolina, and began operation in 1968. Units 4 through 6 were retired in 2007 and the plant currently consists of two (2) GE LM6000 natural gas-fired CTs. Unit 7 and Unit 8 each have a rating of 42 MW, combining for 84 MW total.

3.2 Combined Cycles

3.2.1 Buck

Buck Combine Cycle ("CC") is located in Rowan County, North Carolina, and first came into service in 2011. The plant consists of two (2) GE 7FA CTs, Unit 11 and Unit 12, and one GE D11 Steam Turbine ("ST"), Unit 10. All three units have a combined rating of 668 MW and are natural gas-fired.

3.2.2 Dan River

Dan River CC is located in Rockingham County, North Carolina, and came into service in 2012. The plant consists of two (2) GE 7FA CTs, Unit 8 and Unit 9, and a GE D11 ST, Unit 7. All three units have a combined rating of 662 MW and are natural gas-fired.

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3.2.3 W.S. Lee Combined Cycle

W.S. Lee CC is located in Anderson County, South Carolina, along the Saluda River. The plant consists of two (2) Siemens CTs, and one Siemens ST. All three units have a combined rating of approximately 847 MW and are natural gas-fired.

3.3 Natural Gas Fired Boiler

3.3.1 W.S. Lee

W.S. Lee is located in Anderson County, South Carolina, along the Saluda River. The coal-fired plant began commercial operation in 1951 with three GE ST units. Unit 1 and Unit 2 have since been retired and decommissioned, and Unit 3 was converted to natural gas in 2015. Unit 3 has a rating of 170 MW.

3.4 Coal Generation

3.4.1 Allen

Allen Steam Station is located in Gaston County, North Carolina, along the Catawba River. The Plant consists of five (5) GE coal-fired boiler units. Unit 1 and Unit 2 have a rating of 162 MW and began commercial operation in 1957. Unit 3 has a rating of 258 MW, and Unit 5 has a rating of 257 MW. Unit 3 and Unit 5 began commercial operation in 1959 and 1961, respectively. Unit 4 has a rating of 259 MW and began commercial operation in 1960. Cooling water is provided by the Catawba River.

3.4.2 Belews Creek

Belews Creek Power Station is a coal-fired power plant located in Stokes County, North Carolina. The first turbine entered into service in 1974 and second was brought online in 1975. The Plant consists of two (2) coal-fired boiler units. Unit 1 and Unit 2 are Westinghouse STs that have a rating of 1,110 MW each, combining for 2,220 MW. Cooling water is provided by Belews Lake directly to the east of the site.

3.4.3 Cliffside

Cliffside Station is a coal-fired power plant located in Cleveland, North Carolina, just north of the South Carolina border. Unit 1 through Unit 4 have been retired as of 2011. Unit 5 was brought online in 1972 and Unit 6 was brought online in 2012. Unit 5 consists of one (1) GE ST with a rating of 544 MW. Unit 6 consists of one (1) GE ST with a rating of 844 MW. Cooling water is provided by Broad River directly to the northeast of the site.

3.4.4 Marshall

Marshall Station is a coal-fired power plant located in Catawba County, North Carolina. The Plant consists of four (4) coal-fired boiler units. Unit 1 and Unit 2 each consist of one (1) GE ST with a rating of 370 MW. Unit 3 and Unit 4 each consists of one (1) GE ST with a rating of 658 MW and 660 MW, respectively. The plant began operating in 1965 with Unit 1 and finished construction in 1970 with Unit 4. Cooling water is provided by Lake Norman of Catawba directly to the east of the site.

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3.5 Solar

3.5.1 Gaston

Gaston Solar Project is located in Northampton County, North Carolina, approximately 4 miles northwest of Bessemer City, North Carolina. Gaston has approximately 90,888 panels and a combined rating of approximately 28.6 MW-AC. The project came online in December of 2020.

3.5.2 Maiden Creek

Maiden Creek Solar Facility is located in Catawba, North Carolina, approximately 3 miles northeast of Maiden, North Carolina. Maiden Creek has approximately 256,704 panels and a combined rating of 69.3 MW-AC. The project came online in December of 2022.

3.5.3 Mocksville

Mocksville Solar Farm is located in Davie County, North Carolina, about 60 miles northeast of Charlotte, North Carolina. Mocksville has an estimated 63,300 panels on site with a combined project rating of 15.4 MW-AC. It began commercial operation in December of 2016.

3.5.4 Monroe

Monroe Solar Facility is located in Union County, North Carolina, about 25 miles southeast of Charlotte, North Carolina. Monroe Solar Facility has an estimated 663,225 panels and a combined rating of 59.4 MW-AC. It began commercial operation in December of 2016.

3.5.5 Woodleaf

Woodleaf Solar Facility is located in Rowan County, North Carolina, approximately 9 miles northwest of Salisbury, North Carolina. Woodleaf has approximately 28,728 panels and a combined rating of 6 MW-AC. The project came online in December of 2018.

3.6 Pumped Hydro Storage

3.6.1 Bad Creek

Bad Creek Pumped Storage Project is located in Oconee County, South Carolina, 8 miles north of Salem, South Carolina. Units 1 through 4 consist of Pumped Storage Generators (“PS”) that have a rating of 340 MW each, combining for a total plant capacity of 1,360 MW. Commercial operation began in 1991.

3.6.2 Jocassee

Jocassee Pumped Storage Station is located in Pickens County, South Carolina, on the Keowee River near Salem, South Carolina. Units 1 through 4 consist of PS that have rating of 195 MW each, combining for a total plant capacity of 780 MW. Commercial operation began in 1973.

3.7 Conventional Hydro

3.7.1 99 Islands

The 99 Islands Hydroelectric (“Hydro”) Station is located in Blacksburg, South Carolina, on the Broad River. The plant powerhouse contains six (6) Hydraulic Turbines (“HT”) that have a combined rating of 9.6 MW. The plant began commercial operation in 1910.

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3.7.2 Bear Creek

Bear Creek Hydro Station is located in Tuckasegee, North Carolina, on the East Fork Tuckasegee River. The Bear Creek Hydro Station has one (1) HT that has a rating of 9.5 MW. The plant began commercial operation in 1954.

3.7.3 Bridgewater

Bridgewater Hydro Station is located in Glen Alpine, North Carolina, and originally began operating in 1919. In 2011 the old powerhouse was decommissioned and new, more efficient, turbine generators went into service. These three (3) newer HT Units have a combined rating of 31.5 MW and provide constant water flow into the Catawba River.

3.7.4 Cedar Cliff

Cedar Cliff Hydro Station is located in Tuckasegee, North Carolina, downstream from Bear Creek Hydro Station on the East Fork Tuckasegee River. The site consists of one (1) HT that has a rating of 6.8 MW. The station began commercial operation in 1952.

3.7.5 Cedar Creek

Cedar Creek Hydro Station is located in Rocky Creek, South Carolina, on the Catawba River. Cedar Creek has three (3) HT units that have a combined rating of 45 MW. The site began commercial operation in 1926.

3.7.6 Cowans Ford

Cowans Ford Hydro Station is located in Mecklenburg County, North Carolina, on Lake Norman. The site began operation in 1963 with three (3) HTs, and with a fourth turbine being added in 1967. This is the largest hydro station in Duke's fleet with a combined rating of 324 MW. Cowans Ford Dam created Lake Norman which is the largest man-made body of freshwater in the state.

3.7.7 Dearborn

The Dearborn Hydro Station is located in Great Falls, South Carolina on the Catawba River. The powerhouse contains three (3) HT units that have a combined rating of 42 MW. The plant began commercial operation in 1923.

3.7.8 Fishing Creek

Fishing Creek Hydro station is located in Chester County, South Carolina, approximately half-way between Charlotte, North Carolina and Columbia, South Carolina. There are five (5) HTs at Fishing Creek that have a combined rating of 50 MW. Fishing Creek began commercial operation over 100 years ago in 1916.

3.7.9 Gaston Shoals

The Gaston shoals Plant is located in Blacksburg, South Carolina, on the Broad River. The powerhouse contains four (4) HTs that have a combined rating of 6 MW. The plant began commercial operation in 1908.

3.7.10 Great Falls

The Great Falls Hydro Station is located in Great Falls, South Carolina, on the Convergence of Rocky Creek and the Catawba River. The powerhouse contains eight (8) HTs that have a combined rating of 12 MW. The plant began commercial operation in 1907.

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3.7.11 Keowee

The Keowee Plant is located in Pickens County, South Carolina, on Lake Keowee. The powerhouse contains two (2) HTs that have a combined rating of 152 MW. The plant began commercial operation in 1971.

3.7.12 Lookout Shoals

Lookout Shoals Hydro Station is located in Iredell County, North Carolina, on Lookout Shoals Lake. The powerhouse contains three (3) HTs that have a combined rating of 27 MW. The Hydro Station began commercial operation over 100 years ago in 1915.

3.7.13 Mountain Island

Mountain Island Hydro Station is located in Gaston County, North Carolina, on Mountain Island Lake. The powerhouse consists of four (4) HT units that have a combined rating of 62 MW. Mountain Island began commercial operation in 1923.

3.7.14 Nantahala

The Nantahala Plant is located in Topton, North Carolina, on the Nantahala Lake. The powerhouse contains one (1) HT unit that has a rating of 50 MW. The plant began commercial operation in 1942.

3.7.15 Oxford

Oxford Hydro Station is located in Hickory, North Carolina, on the south bank of the Catawba River. Oxford has two (2) HT units that have a combined rating of 40 MW. Oxford began commercial operation in 1928.

3.7.16 Queens Creek

Queens Creek Hydro Station is located in Topton, North Carolina, on Queens Creek, a branch off the Nantahala River. The site has one (1) HT that has a rating of 1.4 MW. Queens Creek plant began commercial operation in 1948.

3.7.17 Rhodhiss

Rhodhiss Hydro Station is located in Rhodhiss, North Carolina, and formed Lake Rhodhiss when it was completed in 1925. The site consists of three (3) HT units that have a combined rating of 33.4 MW. Commercial operation began in 1925.

3.7.18 Rocky Creek

Rocky Creek Hydro Station is located in both Fairfield and Lancaster Counties, South Carolina, on the Catawba River. The powerhouse contains eight (8) HT units that have a combined rating of 28 MW. The plant began commercial operation in 1908.

3.7.19 Tennessee Creek

Tennessee Creek Hydro Station is located in Tuckasegee, North Carolina, on the East Fork Tuckasegee River. The powerhouse contains one (1) HT that has a rating of 9.8 MW. The Tennessee. This plant is 7 miles to the east of the Tuckasegee hydro station. Commercial operations began in 1955.

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3.7.20 Thorpe

Thorpe Hydro Station is located in Tuckasegee, North Carolina, on the West Fork Tuckasegee River. The powerhouse contains one (1) HT that has a rating of 22 MW. The plant began commercial operation in 1941.

3.7.21 Tuckasegee

Tuckasegee Hydro Station is located in Tuckasegee, North Carolina, on the West Fork Tuckasegee River. The powerhouse contains one (1) HT unit that has a rating of 2.5 MW. Commercial operations began in 1950.

3.7.22 Wateree

The Wateree Plant is located in the Fairfield and Kershaw Counties of South Carolina. The powerhouse contains five (5) hydraulic turbines that have a combined rating of 85 MW. The plant began commercial operation in 1919.

3.7.23 Wylie

The Lake Wylie Hydro Station is located in York County, South Carolina, on the Catawba River. The powerhouse contains four (4) hydraulic turbines that have a combined rating of 72 MW. The plant began commercial operation in 1925.

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4.0 DECOMMISSIONING COSTS

1898 & Co. has prepared decommissioning cost estimates for the Plants. When DEC determines that each site should be retired, the above grade equipment and steel structures are assumed to have scrap value to a scrap contractor which will offset a portion of the site decommissioning costs. However, DEC will incur costs of dismantling the Plants and restoration of the sites to the extent that those costs exceed the scrap value of equipment and bulk steel.

The decommissioning costs for each site include the cost to return each site to an industrial condition, suitable for reuse for development of an industrial facility. Included are the costs to dismantle all the assets at the sites, including power generating equipment and BOP facilities, as well as the costs to perform environmental site restoration activities.

For purposes of this study, 1898 & Co. assumed that each site will be dismantled as a single project, allowing the most cost-effective demolition methods to be utilized. A summary of several of the means and methods that could be employed is summarized in the following paragraphs; however, means and methods will not be dictated to the contractor by 1898 & Co. It will be the contractor's responsibility to determine means and methods that result in safely dismantling the Plants at the lowest possible cost.

Asbestos remediation, as required, would take place prior to commencement of any other demolition activities. Abatement would need to be performed in compliance with all state and federal regulations, including, but not limited to, requirements for sealing off work areas and maintaining negative pressure throughout the removal process. Final clearances and approvals would need to be achieved prior to performing further demolition activities.

High grade assets would then be removed from the site, to the extent possible. This would include items such as transformers, transformer coils, circuit breakers, electrical wire, condenser plates and tubes, and heater tubes. High grade assets include precious alloys such as copper, aluminum-brass tubes, stainless steel tubes, and other high value metals occurring in plant systems. High grade asset removal would occur up-front in the schedule, to reduce the potential for theft, to increase cash flow, and for separation of recyclable materials to increase scrap recovery. Methods of removal vary with the location and nature of the asset. Small transformers, small equipment, and wire would likely be removed and shipped as-is for processing at a scrap yard. Large transformers, combustion turbines, steam turbine generators, and condensers would likely require some on-site disassembly prior to being shipped to a scrap yard.

Construction and Demolition ("C&D") waste includes items such as non-asbestos insulation, roofing, wood, drywall, plastics, and other non-metallic materials. C&D waste would typically be segregated from scrap and concrete to avoid cross-contaminating of waste streams or recycle streams. C&D demolition crews could remove these materials with equipment such as excavators equipped with material handling attachments, skid steers, etc. This material would be consolidated and loaded into bulk containers for disposal.

In general, boilers and Heat Recovery Steam Generators ("HRSG") could be felled and cut into manageable sized pieces on the ground. First the structures around the boilers would need to

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be removed using excavators equipped with shears and grapples. Stairs, grating, elevators, and other high structures would be removed using an "ultra-high reach" excavator, equipped with shears. Following removal of these structures, the boilers or HRSGs would be felled, using explosive blasts. The boilers would then be dismantled using equipment such as excavators equipped with shears and grapples, and the scrap metal loaded onto trailers for recycling.

After the surrounding structures and ductwork have been removed, the stacks would be imploded, using controlled blasts. Following implosion, the stack liners and concrete would be reduced in size to allow for handling and removal.

BOP structures and foundations would likely be demolished using excavators equipped with hydraulic shears, hydraulic grapples, and impact breakers, along with workers utilizing open flame cutting torches. Steel components would be separated, reduced in size, and loaded onto trailers for recycling. Concrete would be broken into manageable sized pieces and stockpiled for crushing on site. Concrete pieces would ultimately be loaded in a hopper and fed through a crusher to be sized for on-site disposal.

4.1 General Assumptions

The following assumptions are made as the basis of all of the cost estimates:

1. Pricing for all cost estimates is in 2022 dollars.
2. All work will take place in a safe and cost-efficient method.
3. Labor costs are based on non-Union labor rates for a 40-hour workweek.
4. The estimates are inclusive of all costs necessary to properly dismantle and decommission all sites to a marketable or usable condition. For purposes of this Study and the included cost estimates, the sites will be restored to a condition suitable for industrial use. Such sites that are restored for reuse in industrial settings are referred to as brownfield sites.
5. Abatement of asbestos will precede any other work. After final air quality clearances have been reached, demolition can proceed.
6. All facilities will be decommissioned to zero generating output. Existing utilities will remain in place for use by the contractor for the duration of the demolition activities.
7. It is assumed that all of the power stations will be dismantled after all units at a single site are taken out of service, allowing dismantlement of entire sites at once.
8. Soil testing and any other on-site testing has not been conducted for this study.
9. Transmission switchyards and substations outside the boundaries of the plant are not part of the demolition scope.
10. The costs for relocation of transmission lines, or other transmission assets, are specifically excluded from the decommissioning cost estimates.
11. Any costs necessary to support on-going operations of adjacent or newly proposed units will be allocated to the operating costs of the units not being decommissioned.
12. All demolition and abatement activities, including removal of asbestos, will be done in accordance with any and all applicable Federal, State and Local laws, rules and regulations.
13. Any residual oil or sludge in tanks and pipes will be cleaned by DEC prior to demolition.

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14. It is assumed that sufficient area to receive, assemble, and temporarily store equipment and materials is available.
15. Step-up transformers, auxiliary transformers, and spare transformers are included for demolition and scrap in all estimates.
16. Demolition will include the removal of all structures, equipment, tanks, conveyer systems, ancillary buildings, and any other associated equipment to two (2) feet below grade, unless otherwise specified herein.
17. To the extent possible, concrete will be crushed and disposed of on-site. During crushing of the concrete, a large magnet is utilized to remove all rebar. All other non-hazardous material with no scrap value will be disposed of off-site at the nearest landfill.
18. All above grade plant structures and materials such as fire walls, masonry, doors, windows, building finishes, plumbing, HVAC ductwork, lighting fixtures, and cable trays, will be disposed of off-site at the nearest landfill.
19. Foundations and ground floor slabs will be removed to two (2) feet below grade. The surface will be graded for drainage using on-site soil and seeding.
20. All pipe supports and pipe racks will be demolished and scrapped.
21. Three feet of soil beneath the fuel oil tanks is to be removed and replaced with clean fill.
22. Hazardous material abatement is included for all sites as necessary, including asbestos, mercury, and polychlorinated biphenyls ("PCB"). Lead paint coated materials will be handled by certified personnel compliant with OSHA Standards as necessary, but will not be removed prior to demolition. Scrap steel can be taken to scrap brokers with lead paint still intact, and it will not impact the scrap value.
23. All portable tanks will be removed from the site and scrapped, including any propane tanks, oil storage tanks, and waste oil tanks.
24. All chemicals will be consumed or disposed of by the Plant prior to shut down, including process chemicals in equipment, stored chemicals, and laboratory chemicals.
25. Any observable surface spill will be cleaned.
26. All trash, debris, and miscellaneous waste will be removed and disposed of properly.
27. Underground piping will be capped and abandoned in place. Circulating water tunnels will be filled with flowable fill.
28. No environmental costs have been included to address cleanup of contaminated soils, hazardous materials, or other conditions present on-site having a negative environmental impact, other than those specifically listed in these assumptions. No allowances are included for unforeseen environmental remediation activities.
29. Handling and disposal of hazardous material will be performed in compliance with the approved methods of DEC's Environmental Services Department.
30. Ash ponds and landfills are excluded from the scope of this Study.
31. Storm water ponds will be drained and the area graded to allow for natural drainage.
32. Site areas will be graded to achieve suitable site drainage to natural drainage patterns, but grading will be minimized to the extent possible.
33. Existing basements will be used to bury non-hazardous debris. Concrete in trenches and basements will be perforated to create drainage. Non-hazardous debris, such as concrete will be crushed and used as clean fill on-site once the capacity of all existing basements has been exceeded. All inert debris will be disposed of on-site. Costs for offsite disposal are included for materials not classified as inert debris.

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Oct 02 2023

34. Valuation and sale of land and all replacement generation costs are excluded from this scope.
35. The scope of the costs included in the Study is limited to the decommissioning activities that will occur at the end of useful life of the facilities. Additional on-going costs may be required. These costs are excluded from the cost estimates provided in this Study.
36. Rolling stock, including rail cars, dozers, plant vehicles, etc. is assumed to be removed by DEC prior to decommissioning.
37. DEC provided plant inventory values for each site for inclusion as a cost in each estimate. It is assumed that 10 percent of the inventory value will be included as a scrap credit. For the combustion turbine facilities, it is assumed that 25 percent of the inventory value is accounted for as a scrap credit. This inventory cost is not included in the calculation for contingency and indirect costs.
38. Market conditions may result in cost variations at the time of contract execution.
39. A 20 percent contingency was included on the direct costs in the estimates prepared as part of this Study to cover unknowns.
40. Indirect costs are included in the cost estimate to cover owner expenses such as management trailers, utilities, etc. which may impact the cost of decommissioning each site. An indirect cost of 11 percent was included in the estimates to cover such costs as directed by DEC.
41. Major equipment, structural steel, CTs, generators, inlet filters, exhaust stacks, transformers, electrical equipment, cabling, wiring, pump skids, above ground piping, and equipment enclosures for the above equipment will be sold for scrap and removed from the Plant site by the demolition contractor. All other demolished materials are considered debris.
42. The scrap value of the equipment is based on the equipment being at the end of its useful life at the time of demolition; therefore, the equipment will not have a value on the grey market for reinstallation. Equipment will have value as scrap only at the time of site demolition.
43. The following scrap values were used in the decommissioning cost estimates. The scrap values are based upon the 12-month average of American Metal Market prices for May 2021 to April 2022 (i.e., one calendar year). These values include the cost to haul the scrap via truck and/or rail to the scrap market indicated below.

Table 4-1: Scrap Pricing

Plant	Scrap Market Location	Steel Scrap Value ($/net ton)	Copper Scrap Value ($/pound)	Aluminum Scrap Value ($/pound)	Brass Scrap Value ($/pound)
99 Islands	North Carolina	($385.59)	($3.36)	($0.48)	($2.52)
Allen	North Carolina	($398.19)	($3.36)	($0.49)	($2.53)
Bad Creek	South Carolina	($371.37)	($3.35)	($0.47)	($2.51)
Bear Creek	South Carolina	($360.87)	($3.34)	($0.46)	($2.51)
Belews Creek	North Carolina	($383.32)	($3.35)	($0.48)	($2.52)
Bridgewater	South Carolina	($378.30)	($3.35)	($0.47)	($2.52)

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Oct 02 2023

Plant	Scrap Market Location	Steel Scrap Value ($/net ton)	Copper Scrap Value ($/pound)	Aluminum Scrap Value ($/pound)	Brass Scrap Value ($/pound)
Buck	North Carolina	($383.84)	($3.36)	($0.48)	($2.52)
Cedar Cliff	South Carolina	($361.92)	($3.34)	($0.47)	($2.51)
Cedar Creek	South Carolina	($387.76)	($3.36)	($0.48)	($2.52)
Clemson	South Carolina	($382.57)	($3.35)	($0.48)	($2.52)
Cliffside	North Carolina	($380.34)	($3.35)	($0.48)	($2.52)
Cowans Ford	North Carolina	($393.64)	($3.36)	($0.48)	($2.52)
Dan River	South Carolina	($380.00)	($3.35)	($0.47)	($2.52)
Dearborn	South Carolina	($387.76)	($3.36)	($0.48)	($2.52)
Fishing Creek	South Carolina	($387.76)	($3.36)	($0.48)	($2.52)
Gaston	North Carolina	($389.09)	($3.36)	($0.48)	($2.52)
Gaston Shoals	North Carolina	($385.59)	($3.36)	($0.48)	($2.52)
Great Falls	South Carolina	($387.76)	($3.36)	($0.48)	($2.52)
Jocassee	South Carolina	($374.87)	($3.35)	($0.47)	($2.51)
Keowee	South Carolina	($379.42)	($3.35)	($0.47)	($2.52)
Lark	North Carolina	($396.79)	($3.36)	($0.48)	($2.52)
Lincoln	North Carolina	($395.04)	($3.36)	($0.48)	($2.53)
Lookout Shoals	North Carolina	($386.64)	($3.36)	($0.48)	($2.52)
Maiden Creek	North Carolina	($384.68)	($3.36)	($0.48)	($2.52)
Marshall	North Carolina	($389.79)	($3.36)	($0.48)	($2.52)
Mill Creek	North Carolina	($385.59)	($3.36)	($0.48)	($2.52)
Mocksville	North Carolina	($382.43)	($3.35)	($0.48)	($2.52)
Monroe	North Carolina	($391.89)	($3.36)	($0.48)	($2.52)
Mountain Island	North Carolina	($396.79)	($3.36)	($0.48)	($2.53)
Nantahala	South Carolina	($352.12)	($3.34)	($0.46)	($2.50)
Oxford	North Carolina	($383.84)	($3.36)	($0.48)	($2.52)
Queens Creek	South Carolina	($352.82)	($3.34)	($0.46)	($2.50)
Rhodhiss	South Carolina	($378.30)	($3.35)	($0.47)	($2.52)
Rockingham	North Carolina	($378.91)	($3.35)	($0.48)	($2.52)
Rocky Creek	South Carolina	($387.76)	($3.36)	($0.48)	($2.52)
Tennessee Creek	South Carolina	($360.87)	($3.34)	($0.46)	($2.51)

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Oct 02 2023

Plant	Scrap Market Location	Steel Scrap Value ($/net ton)	Copper Scrap Value ($/pound)	Aluminum Scrap Value ($/pound)	Brass Scrap Value ($/pound)
Thorpe	South Carolina	($359.12)	($3.34)	($0.46)	($2.51)
Tuckasegee	South Carolina	($362.62)	($3.34)	($0.47)	($2.51)
Wateree	South Carolina	($393.01)	($3.36)	($0.48)	($2.52)
Woodleaf	North Carolina	($383.84)	($3.36)	($0.48)	($2.52)
WS Lee	North Carolina	($376.26)	($3.35)	($0.47)	($2.52)
Wylie	North Carolina	($396.09)	($3.36)	($0.48)	($2.53)

Table 4-2:Scrap Pricing

Plant	Scrap Market Location	Stainless Steel Scrap Value ($/net ton)
Belews Creek	Illinois	($1,865.69)
Buck	Ohio	($1,869.33)
Cliffside	Illinois	($1,863.96)
Dan River	Illinois	($1,865.69)
Marshall	Illinois	($1,861.72)

4.2 Site Specific Assumptions

The following assumptions were made specific to each site, in addition to the general assumptions listed above.

4.2.1 Hydroelectric Sites

The following assumptions were made as the basis of all hydroelectric sites.

1. The dams are not included for removal in this Study, and will remain in place for flow control purposes.
2. At Plants where the powerhouse is a part of the dam, or structurally connected to the dam, the powerhouse will remain in place to support flow control operations. In these cases, although the powerhouse will remain, the cost of asbestos abatement in the powerhouse is included in the decommissioning cost estimates.
3. The asbestos quantities for the hydro facilities were not explicitly provided and therefore were estimated based off of known asbestos quantities at other similar hydro plants.
4. When the dam and the powerhouse are separated by a river bypass (piping, or penstock between dam and powerhouse) the above grade piping will be removed. Below grade piping will be abandon in place with the ends being capped with concrete. The powerhouse is assumed to be able to be demolished without effecting the dam.
5. Generators, transformers, and other power generation equipment will be removed.

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6. Specific demolition crews are based on task, labor and equipment rates, which vary depending on the estimated time of completion.
7. Conventional hydro sites including Bear Creek, Cedar Cliff, and Tennessee Creek have dry-type GSU transformers. As such, there are no associated transformer oil disposal costs required for these sites.

4.2.2 Allen

1. The boilers, steam piping, air ducts, and miscellaneous gaskets, floor tile, switch gear and various other structures are assumed to include asbestos containing materials. The cost for handling and disposing of this asbestos containing material is included in the cost estimates.
2. Main flue gas desulfurization ("FGD") equipment costs were split between the units based on the total output of each unit.
3. Holding ponds have High-density polyethylene ("HDPE") liners.

4.2.3 Bad Creek

1. The pumped storage reservoir will be drained completely and the power tunnel from reservoir will be sealed. The tailraces will also be sealed but remain in place.
2. The below ground tunnels will not be filled with flowable fill. Instead, the already in place gates and fences will remain in place for security.

4.2.4 Belews Creek

1. Portions of the FGD and selective catalytic reduction ("SCR") equipment that are used by both units were allocated to each unit equally (ammonia tanks, FGD control building, etc.)
2. The SCR is stacked on top of precipitator therefore the concrete foundation below is split between the two.
3. Stacks have been removed and not included in the study.
4. Holding ponds have HDPE liners.

4.2.5 Buck

1. Buck is assumed to be asbestos free due to vintage of the plant.

4.2.6 Clemson

1. Clemson is assumed to be asbestos and PCB free due to vintage of the plant.
2. The steam turbine and building are owned by Clemson and not included in this study.

4.2.7 Cliffside

1. The Unit 5 boilers, steam piping, air ducts, and miscellaneous gaskets, floor tile, switch gear and various other structures are assumed to include asbestos containing materials. The cost for handling and disposing of this asbestos containing material is included in the cost estimates.
2. The transformers on-site are assumed to not have PCB containing oil.
3. Low head dam removal included in the scope.

4.2.8 Dan River

1. Dan River is assumed to be asbestos and PCB free due to vintage of the plant and discussions with plant staff.

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2. Low head dam removal is included in the scope.

4.2.9 Gaston

1. All roads on site are gravel.

4.2.10 Lincoln

1. All 16 units are identical.
2. There are a total of 8 identical GSU transformers, one per every two units.
3. Each unit has its own aux transformer.
4. Unit 17 is not included in the study.

4.2.11 Maiden Creek

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

4.2.12 Marshall

1. Unit 1 and Unit 2 were each allocated one-sixth of the cost of the FGD while Units 3 and 4 were each allocated one-third of the cost.
2. The stacks for Unit 3 and Unit 4 have been removed and are excluded from this scope.
3. Holding ponds have HDPE liners.

4.2.13 Mill Creek

1. Mill Creek is assumed to be asbestos free due to vintage of the plant.
2. All units are assumed to be identical.
3. Holding ponds on south of the plant have HDPE liners.

4.2.14 Mocksville

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

4.2.15 Monroe

1. All roads on site are gravel.
2. It is assumed that there is no photovoltaic combining switchgear on site.

4.2.16 Rockingham

1. Rockingham is assumed to be asbestos free due to vintage of the plant.

4.2.17 Woodleaf

1. All roads on site are gravel.

4.2.18 WS Lee

1. The cost estimate for decommissioning W.S. Lee natural gas boiler unit is separate from the cost estimate for decommissioning W.S. Lee CT and CC units.
2. Fuel oil tanks are assumed to belong to W.S. Lee CT units and therefore are excluded from the W.S. Lee natural gas fired boiler estimate.
3. Only unit 3 is evaluating in this study.
4. Steam piping, air ducts, storage tanks and miscellaneous gaskets, coal handling, cooling towers, and various other structures are assumed to contain asbestos. The

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cost for handling and disposing of this asbestos containing material is included in the cost estimates.

5. Since W. S. Lee has been converted to natural gas, all coal handling equipment has already been removed and was therefore, excluded from this Study.
6. Low head dam removal included in scope.

4.2.19 WS Lee Combined Cycle

1. The cost estimate for decommissioning W.S. Lee CC units is separate from the cost estimate for decommissioning W.S. Lee coal units and CT units.
2. WS Lee Combined Cycle is assumed to be asbestos and PCB free due to vintage of the plant and discussions with plant staff.

4.2.20 WS Lee Simple Cycle

1. The cost estimate for decommissioning W.S. Lee CT units is separate from the cost estimate for decommissioning W.S. Lee coal units and CC units.
2. The two fuel oil tanks to the northwest of the coal units are included in the cost estimate for the decommissioning of the CT units.

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5.0 RESULTS

1898 & Co. has prepared cost estimates in 2022 dollars for the decommissioning of the Plants. These costs are summarized in the following table. When DEC determines that the Plants should be retired, the above grade equipment and steel structures are assumed to have sufficient scrap value to a scrap contractor to offset a portion of the decommissioning costs. DEC will incur costs in the demolition and restoration of the sites less the salvage value of equipment and bulk recycled metals. Additionally, DEC's on-site inventory was taken into consideration for the demolition costs. For the combustion turbine facilities, a salvage value of 25 percent was assumed. For the other Plants, 10 percent of the inventory was assumed to be salvageable. The combustion turbine facilities were assumed to have a higher inventory salvage value because spare parts for combustion turbines are more marketable and can be more easily resold to other owners/operators at a higher premium than just the scrap price of the material.

Table 5-1: Decommissioning Cost Summary (2022$)

Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
99 Islands	$ 3,444,000	$ 48,000	$ (758,000)	$ (5,000)	$ 2,729,000
Allen	$ 66,380,000	$ 9,356,000	$ (33,520,000)	$ (936,000)	$ 41,280,000
Bad Creek	$ 8,376,000	$ 5,719,000	$ (11,072,000)	$ (572,000)	$ 2,451,000
Bear Creek	$ 993,000	-	$ (283,000)	-	$ 710,000
Belews Creek	$ 81,445,000	$ 33,156,000	$ (35,814,000)	$ (3,316,000)	$ 75,471,000
Bridgewater	$ 2,540,000	$ 92,000	$ (799,000)	$ (9,000)	$ 1,824,000
Buck	$ 13,340,000	$ 8,219,000	$ (8,373,000)	$ (821,900)	$ 12,364,100
Cedar Cliff	$ 1,328,000	-	$ (308,000)	-	$ 1,020,000
Cedar Creek	$ 2,191,000	$ 107,000	$ (945,000)	$ (11,000)	$ 1,342,000
Clemson	$ 719,000	$ 357,000	$ (428,000)	$ (35,700)	$ 612,300
Cliffside	$ 75,820,000	$ 28,973,000	$ (32,796,000)	$ (2,897,000)	$ 69,100,000
Cowans Ford	$ 3,816,000	$ 139,000	$ (4,196,000)	$ (14,000)	$ (255,000)
Dan River	$ 13,914,000	$ 9,857,000	$ (7,355,000)	$ (986,000)	$ 15,430,000
Dearborn	$ 2,152,000	$ 25,000	$ (1,135,000)	$ (3,000)	$ 1,039,000
Central Storeroom	-	$ 230,080	$ (23,008)	-	$ 207,072
Fishing Creek	$ 3,174,000	$ 100,000	$ (1,461,000)	$ (10,000)	$ 1,803,000
Gaston	$ 4,357,600	-	$ (2,110,400)	-	$ 2,247,200
Gaston Shoals	$ 2,418,000	-	$ (294,000)	-	$ 2,124,000
Great Falls	$ 4,967,000	$ 26,000	$ (714,000)	$ (3,000)	$ 4,276,000
Hydro Repair	-	$ 43,500	$ (4,350)	-	$ 39,150

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Plant	Gross Decom Cost	Inventory Cost	Salvage Credits	Inventory Credits	Net Project Cost
Jocassee	$ 4,632,000	-	$ (7,224,000)	-	$ (2,592,000)
Keowee	$ 3,404,000	-	$ (2,871,000)	-	$ 533,000
Lark	$ 2,087,000	$ 62,259,000	$ (198,000)	$ (6,226,000)	$ 57,922,000
Lincoln	$ 16,874,000	$ 1,761,000	$ (16,527,000)	$ (440,000)	$ 1,668,000
Lookout Shoals	$ 2,019,000	$ 127,000	$ (773,000)	$ (13,000)	$ 1,360,000
Maiden Creek	$ 15,721,600	$ 63,700	$ (8,677,000)	$ (6,400)	$ 7,101,900
Marshall	$ 59,297,000	$ 20,743,000	$ (38,051,000)	$ (2,074,000)	$ 39,915,000
Mill Creek	$ 5,742,000	$ 766,000	$ (6,206,000)	$ (191,000)	$ 111,000
Mocksville	$ 2,963,800	-	$ (1,099,900)	-	$ 1,863,900
Monroe	$ 12,441,400	$ 45,100	$ (4,512,500)	$ (4,500)	$ 7,969,500
Mountain Island	$ 2,986,000	$ 87,000	$ (1,310,000)	$ (9,000)	$ 1,754,000
Nantahala	$ 1,857,000	$ 51,000	$ (838,000)	$ (5,000)	$ 1,065,000
Oxford	$ 1,737,000	$ 96,000	$ (898,000)	$ (10,000)	$ 925,000
Queens Creek	$ 1,132,000	-	$ (197,000)	-	$ 935,000
Rhodhiss	$ 2,150,000	$ 111,000	$ (935,000)	$ (11,000)	$ 1,315,000
Rockingham	$ 5,896,000	$ 1,689,000	$ (6,347,000)	$ (422,000)	$ 816,000
Rocky Creek	$ 4,435,000	$ 9,000	$ (1,003,000)	$ (1,000)	$ 3,440,000
Tennessee Creek	$ 2,081,000	-	$ (386,000)	-	$ 1,695,000
Thorpe	$ 3,569,000	-	$ (527,000)	-	$ 3,042,000
Tuckasegee	$ 1,871,000	-	$ (154,000)	-	$ 1,717,000
Wateree	$ 3,419,000	$ 302,000	$ (1,690,000)	$ (30,000)	$ 2,001,000
Woodleaf	$ 1,289,100	$ 9,700	$ (407,500)	$ (1,000)	$ 890,300
WS Lee CT	$ 1,848,000	-	$ (1,062,000)	-	$ 786,000
WS Lee Boiler	$ 13,753,000	$ 1,652,000	$ (4,614,000)	$ (165,000)	$ 10,626,000
WS Lee CC	$ 13,736,000	$ 4,411,000	$ (8,428,000)	$ (441,000)	$ 9,278,000
Wylie	$ 3,024,000	$ 113,000	$ (1,405,000)	$ (11,000)	$ 1,721,000

The total project costs presented above include the costs to return the sites to an industrial condition suitable for reuse for development as an industrial facility. Included are the costs to dismantle all power generating equipment and balance of plant facilities and, where applicable, to perform environmental site restoration activities. Further details including estimates for the major cost categories of each plant estimate are provided in Appendix A.

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APPENDIX A – COST ESTIMATE SUMMARIES

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Table A-1
99 Islands Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
99 Islands Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 1,255,000	$ 1,076,000	$ -	$ -	$ 2,331,000	$ -
BOP Buildings	$ 8,000	$ 9,000	$ -	$ -	$ 17,000	$ -
Roads	$ 2,000	$ 2,000	$ -	$ -	$ 4,000	$ -
Debris	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 36,000	$ 36,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (758,000)
Subtotal	**$ 1,265,000**	**$ 1,087,000**	**$ 6,000**	**$ 36,000**	**$ 2,394,000**	**$ (758,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 223,000	$ 223,000	$ -
Universal Waste Disposal	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 255,000**	**$ 255,000**	**$ -**
99 Islands Hydro Station Subtotal	**$ 1,265,000**	**$ 1,087,000**	**$ 6,000**	**$ 291,000**	**$ 2,649,000**	**$ (758,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,649,000**	**$ (758,000)**
PROJECT INDIRECTS (10%)					**$ 265,000**	
CONTINGENGY (20%)					**$ 530,000**	
INVENTORY ADJUSTMENT					**$ 48,000**	**$ (5,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,492,000**	**$ (763,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 2,729,000**	

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Table A-2
Allen Generating Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Allen Generating Station						
Unit 1						
Asbestos Removal	$ -	$ -	$ -	$ 1,116,000	$ 1,116,000	$ -
Boiler	$ 1,267,000	$ 1,233,000	$ -	$ -	$ 2,500,000	$ -
Steam Turbine & Building	$ 505,000	$ 491,000	$ -	$ -	$ 996,000	$ -
Precipitators	$ 328,000	$ 319,000	$ -	$ -	$ 647,000	$ -
Scrubber / FGD	$ 241,000	$ 235,000	$ -	$ -	$ 476,000	$ -
Stacks	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
GSU & Foundation	$ 53,000	$ 51,000	$ -	$ -	$ 104,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 60,000	$ -	$ 60,000	$ -
Debris	$ -	$ -	$ 80,000	$ -	$ 80,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (5,308,000)
Subtotal	**$ 2,504,000**	**$ 2,436,000**	**$ 140,000**	**$ 1,116,000**	**$ 6,196,000**	**$ (5,308,000)**
Unit 2						
Asbestos Removal	$ -	$ -	$ -	$ 1,116,000	$ 1,116,000	$ -
Boiler	$ 1,375,000	$ 1,338,000	$ -	$ -	$ 2,713,000	$ -
Steam Turbine & Building	$ 505,000	$ 491,000	$ -	$ -	$ 996,000	$ -
Precipitator	$ 328,000	$ 319,000	$ -	$ -	$ 647,000	$ -
Scrubber / FGD	$ 241,000	$ 235,000	$ -	$ -	$ 476,000	$ -
Stacks	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
GSU & Foundation	$ 41,000	$ 40,000	$ -	$ -	$ 81,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 60,000	$ -	$ 60,000	$ -
Debris	$ -	$ -	$ 83,000	$ -	$ 83,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (5,486,000)
Subtotal	**$ 2,600,000**	**$ 2,530,000**	**$ 143,000**	**$ 1,116,000**	**$ 6,389,000**	**$ (5,486,000)**
Unit 3						
Asbestos Removal	$ -	$ -	$ -	$ 1,860,000	$ 1,860,000	$ -
Boiler	$ 1,770,000	$ 1,723,000	$ -	$ -	$ 3,493,000	$ -
Steam Turbine & Building	$ 632,000	$ 615,000	$ -	$ -	$ 1,247,000	$ -
Precipitator	$ 459,000	$ 447,000	$ -	$ -	$ 906,000	$ -
Scrubber / FGD	$ 322,000	$ 313,000	$ -	$ -	$ 635,000	$ -
Stacks	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
GSU & Foundation	$ 48,000	$ 47,000	$ -	$ -	$ 95,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 72,000	$ -	$ 72,000	$ -
Debris	$ -	$ -	$ 90,000	$ -	$ 90,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (7,318,000)
Subtotal	**$ 3,341,000**	**$ 3,252,000**	**$ 162,000**	**$ 1,860,000**	**$ 8,615,000**	**$ (7,318,000)**
Unit 4						
Asbestos Removal	$ -	$ -	$ -	$ 1,860,000	$ 1,860,000	$ -
Boiler	$ 1,774,000	$ 1,727,000	$ -	$ -	$ 3,501,000	$ -
Steam Turbine & Building	$ 632,000	$ 615,000	$ -	$ -	$ 1,247,000	$ -
Precipitator	$ 459,000	$ 447,000	$ -	$ -	$ 906,000	$ -
Scrubber / FGD	$ 322,000	$ 313,000	$ -	$ -	$ 635,000	$ -
Stacks	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
GSU & Foundation	$ 46,000	$ 44,000	$ -	$ -	$ 90,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 72,000	$ -	$ 72,000	$ -
Debris	$ -	$ -	$ 93,000	$ -	$ 93,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (7,318,000)
Subtotal	**$ 3,343,000**	**$ 3,253,000**	**$ 165,000**	**$ 1,860,000**	**$ 8,621,000**	**$ (7,318,000)**
Unit 5						
Asbestos Removal	$ -	$ -	$ -	$ 1,860,000	$ 1,860,000	$ -
Boiler	$ 1,425,000	$ 1,387,000	$ -	$ -	$ 2,812,000	$ -
Steam Turbine & Building	$ 636,000	$ 620,000	$ -	$ -	$ 1,256,000	$ -
Precipitator	$ 459,000	$ 447,000	$ -	$ -	$ 906,000	$ -
Scrubber / FGD	$ 322,000	$ 313,000	$ -	$ -	$ 635,000	$ -
Stacks	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
GSU & Foundation	$ 43,000	$ 42,000	$ -	$ -	$ 85,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 72,000	$ -	$ 72,000	$ -
Debris	$ -	$ -	$ 89,000	$ -	$ 89,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (6,571,000)
Subtotal	**$ 2,995,000**	**$ 2,916,000**	**$ 161,000**	**$ 1,860,000**	**$ 7,932,000**	**$ (6,571,000)**
Handling						
Coal Handling Facilites	$ 933,000	$ 909,000	$ -	$ -	$ 1,842,000	$ -
Coal Storage Area Restoration	$ -	$ -	$ -	$ 3,334,000	$ 3,334,000	$ -
Limestone Handling Facilities	$ 37,000	$ 36,000	$ -	$ -	$ 73,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 45,000	$ -	$ 45,000	$ -
Debris	$ -	$ -	$ 86,000	$ -	$ 86,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (664,000)
Subtotal	**$ 970,000**	**$ 945,000**	**$ 131,000**	**$ 3,334,000**	**$ 5,380,000**	**$ (664,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 57,000	$ 56,000	$ -	$ -	$ 113,000	$ -
BOP Misc.	$ 23,000	$ 22,000	$ -	$ -	$ 45,000	$ -
Roads	$ 150,000	$ 146,000	$ -	$ -	$ 296,000	$ -
All BOP Buildings	$ 379,000	$ 369,000	$ -	$ -	$ 748,000	$ -

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Fuel Equipment	$ 33,000	$ 32,000	$ -	$ -	$ 65,000	$ -
All Other Tanks	$ 231,000	$ 225,000	$ -	$ -	$ 456,000	$ -
Transformers & Foundation	$ 21,000	$ 21,000	$ -	$ -	$ 42,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Plant Wash Down & Disposal	$ -	$ -	$ -	$ 58,000	$ 58,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 206,000	$ 206,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 70,000	$ 70,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 47,000	$ 47,000	$ -
Ground Water Monitoring Wells	$ -	$ -	$ -	$ 24,000	$ 24,000	$ -
Underground Storage Tank Remediation	$ -	$ -	$ -	$ 47,000	$ 47,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 11,000	$ 11,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 56,000	$ 56,000	$ -
Pond and Basin Closure	$ 357,000	$ 347,000	$ -	$ 652,000	$ 1,356,000	$ -
Plant Washdown & Materials Disposal	$ -	$ -	$ -	$ 58,000	$ 58,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 70,000	$ -	$ 70,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 4,114,000	$ 4,114,000	$ -
Debris	$ -	$ -	$ 35,000	$ -	$ 35,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (855,000)
Subtotal	**$ 1,251,000**	**$ 1,218,000**	**$ 105,000**	**$ 5,355,000**	**$ 7,929,000**	**$ (855,000)**
Allen Generating Station Subtotal	**$ 17,004,000**	**$ 16,550,000**	**$ 1,007,000**	**$ 16,501,000**	**$ 51,062,000**	**$ (33,520,000)**
TOTAL DECOM COST (CREDIT)					**$ 51,062,000**	**$ (33,520,000)**
PROJECT INDIRECTS (10%)					**$ 5,106,000**	
CONTINGENGY (20%)					**$ 10,212,000**	
INVENTORY ADJUSTMENT					**$ 9,356,000**	**$ (936,000)**
TOTAL PROJECT COST (CREDIT)					**$ 75,736,000**	**$ (34,456,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 41,280,000**	

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Table A-3
Bad Creek
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Bad Creek						
Pumped Storage						
Pumped Storage Generating Equipment & Facilities	$ 2,635,000	$ 2,128,000	$ -	$ -	$ 4,763,000	$ -
BOP Buildings	$ 198,000	$ 236,000	$ -	$ -	$ 434,000	$ -
Roads	$ 21,000	$ 25,000	$ -	$ -	$ 46,000	$ -
Debris	$ -	$ -	$ 151,000	$ -	$ 151,000	$ -
On Site Crushing	$ -	$ -	$ 16,000	$ -	$ 16,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 69,000	$ 69,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (11,072,000)
Subtotal	**$ 2,854,000**	**$ 2,389,000**	**$ 167,000**	**$ 69,000**	**$ 5,479,000**	**$ (11,072,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 897,000	$ 897,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 46,000	$ 46,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 9,000	$ 9,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 964,000**	**$ 964,000**	**$ -**
Bad Creek Subtotal	**$ 2,854,000**	**$ 2,389,000**	**$ 167,000**	**$ 1,033,000**	**$ 6,443,000**	**$ (11,072,000)**
TOTAL DECOM COST (CREDIT)					**$ 6,443,000**	**$ (11,072,000)**
PROJECT INDIRECTS (10%)					**$ 644,000**	
CONTINGENGY (20%)					**$ 1,289,000**	
INVENTORY ADJUSTMENT					**$ 5,719,000**	**$ (572,000)**
TOTAL PROJECT COST (CREDIT)					**$ 14,095,000**	**$ (11,644,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 2,451,000**	

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Oct 02 2023

Table A-4
Bear Creek
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Bear Creek						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 305,000	$ 297,000	$ -	$ 40,000	$ 642,000	$ -
BOP Buildings	$ 13,000	$ 15,000	$ -	$ -	$ 28,000	$ -
Roads	$ 16,000	$ 19,000	$ -	$ -	$ 35,000	$ -
Debris	$ -	$ -	$ 10,000	$ -	$ 10,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 10,000	$ 10,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (283,000)
Subtotal	**$ 334,000**	**$ 331,000**	**$ 11,000**	**$ 50,000**	**$ 726,000**	**$ (283,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 23,000	$ 23,000	$ -
Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 3,000	$ 3,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 38,000**	**$ 38,000**	**$ -**
Bear Creek Subtotal	**$ 334,000**	**$ 331,000**	**$ 11,000**	**$ 88,000**	**$ 764,000**	**$ (283,000)**
TOTAL DECOM COST (CREDIT)					**$ 764,000**	**$ (283,000)**
PROJECT INDIRECTS (10%)					**$ 76,000**	
CONTINGENGY (20%)					**$ 153,000**	
TOTAL PROJECT COST (CREDIT)					**$ 993,000**	**$ (283,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 710,000**	

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Oct 02 2023

Table A-5
Belews Creek
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Belews Creek						
Unit 1						
Asbestos Removal	$ -	$ -	$ -	$ 5,989,000	$ 5,989,000	$ -
Boiler	$ 3,594,000	$ 3,498,000	$ -	$ -	$ 7,092,000	$ -
Steam Turbine & Building	$ 2,093,000	$ 2,038,000	$ -	$ -	$ 4,131,000	$ -
Precipitators	$ 1,069,000	$ 1,040,000	$ -	$ -	$ 2,109,000	$ -
SCR	$ 1,322,000	$ 1,287,000	$ -	$ -	$ 2,609,000	$ -
Scrubber / FGD	$ 688,000	$ 670,000	$ -	$ -	$ 1,358,000	$ -
Stacks	$ 115,000	$ 112,000	$ -	$ -	$ 227,000	$ -
GSU & Foundation	$ 80,000	$ 78,000	$ -	$ -	$ 158,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 265,000	$ -	$ 265,000	$ -
Debris	$ -	$ -	$ 60,000	$ -	$ 60,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (16,779,000)
Subtotal	**$ 8,961,000**	**$ 8,723,000**	**$ 325,000**	**$ 5,989,000**	**$ 23,998,000**	**$ (16,779,000)**
Unit 2						
Asbestos Removal	$ -	$ -	$ -	$ 5,989,000	$ 5,989,000	$ -
Boiler	$ 3,594,000	$ 3,498,000	$ -	$ -	$ 7,092,000	$ -
Steam Turbine & Building	$ 2,093,000	$ 2,038,000	$ -	$ -	$ 4,131,000	$ -
Precipitator	$ 1,069,000	$ 1,040,000	$ -	$ -	$ 2,109,000	$ -
SCR	$ 1,322,000	$ 1,287,000	$ -	$ -	$ 2,609,000	$ -
Scrubber / FGD	$ 688,000	$ 670,000	$ -	$ -	$ 1,358,000	$ -
Stacks	$ 115,000	$ 112,000	$ -	$ -	$ 227,000	$ -
GSU & Foundation	$ 80,000	$ 78,000	$ -	$ -	$ 158,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 265,000	$ -	$ 265,000	$ -
Debris	$ -	$ -	$ 60,000	$ -	$ 60,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (16,778,000)
Subtotal	**$ 8,961,000**	**$ 8,723,000**	**$ 325,000**	**$ 5,989,000**	**$ 23,998,000**	**$ (16,778,000)**
Handling						
Coal Handling Facilites	$ 1,038,000	$ 1,011,000	$ -	$ -	$ 2,049,000	$ -
Coal Storage Area Restoration	$ -	$ -	$ -	$ 3,227,000	$ 3,227,000	$ -
Limestone Handling Facilities	$ 178,000	$ 174,000	$ -	$ -	$ 352,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 54,000	$ -	$ 54,000	$ -
Debris	$ -	$ -	$ 101,000	$ -	$ 101,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (912,000)
Subtotal	**$ 1,216,000**	**$ 1,185,000**	**$ 155,000**	**$ 3,227,000**	**$ 5,783,000**	**$ (912,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 91,000	$ 89,000	$ -	$ -	$ 180,000	$ -
Roads	$ 182,000	$ 177,000	$ -	$ -	$ 359,000	$ -
All BOP Buildings	$ 552,000	$ 538,000	$ -	$ -	$ 1,090,000	$ -
Fuel Equipment	$ 63,000	$ 61,000	$ -	$ -	$ 124,000	$ -
All Other Tanks	$ 207,000	$ 201,000	$ -	$ -	$ 408,000	$ -
Transformers & Foundation	$ 73,000	$ 71,000	$ -	$ -	$ 144,000	$ -
Refractory	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Plant Wash Down & Disposal	$ -	$ -	$ -	$ 59,000	$ 59,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 271,000	$ 271,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 18,000	$ 18,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 39,000	$ 39,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 17,000	$ 17,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 30,000	$ 30,000	$ -
Pond Closure	$ -	$ -	$ -	$ 1,962,000	$ 1,962,000	$ -
Well Removal	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Underground Storage Tank Remediation	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 46,000	$ -	$ 46,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 4,051,000	$ 4,051,000	$ -
Debris	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,345,000)
Subtotal	**$ 1,168,000**	**$ 1,137,000**	**$ 52,000**	**$ 6,514,000**	**$ 8,871,000**	**$ (1,345,000)**
Belews Creek Subtotal	**$ 20,306,000**	**$ 19,768,000**	**$ 857,000**	**$ 21,719,000**	**$ 62,650,000**	**$ (35,814,000)**
TOTAL DECOM COST (CREDIT)					**$ 62,650,000**	**$ (35,814,000)**
PROJECT INDIRECTS (10%)					**$ 6,265,000**	
CONTINGENGY (20%)					**$ 12,530,000**	
INVENTORY ADJUSTMENT					**$ 33,156,000**	**$ (3,316,000)**
TOTAL PROJECT COST (CREDIT)					**$ 114,601,000**	**$ (39,130,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 75,471,000**	

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Oct 02 2023

Table A-6
Bridgewater
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Bridgewater						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 677,000	$ 628,000	$ -	$ 47,000	$ 1,352,000	$ -
BOP Buildings	$ 109,000	$ 130,000	$ -	$ -	$ 239,000	$ -
Roads	$ 12,000	$ 14,000	$ -	$ -	$ 26,000	$ -
Debris	$ -	$ -	$ 36,000	$ -	$ 36,000	$ -
On Site Crushing	$ -	$ -	$ 8,000	$ -	$ 8,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 66,000	$ 66,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (799,000)
Subtotal	**$ 798,000**	**$ 772,000**	**$ 44,000**	**$ 113,000**	**$ 1,727,000**	**$ (799,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 201,000	$ 201,000	$ -
Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 9,000	$ 9,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 227,000**	**$ 227,000**	**$ -**
Bridgewater Subtotal	**$ 798,000**	**$ 772,000**	**$ 44,000**	**$ 340,000**	**$ 1,954,000**	**$ (799,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,954,000**	**$ (799,000)**
PROJECT INDIRECTS (10%)					**$ 195,000**	
CONTINGENGY (20%)					**$ 391,000**	
INVENTORY ADJUSTMENT					**$ 92,000**	**$ (9,000)**
TOTAL PROJECT COST (CREDIT)					**$ 2,632,000**	**$ (808,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,824,000**	

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Oct 02 2023

Table A-7
Buck Steam Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Buck Steam Station						
Unit 1						
Aux Boiler	$ 38,000	$ 36,000	$ -	$ -	$ 74,000	$ -
CTGs and HRSGs	$ 2,085,000	$ 1,973,000	$ -	$ -	$ 4,058,000	$ -
Steam Turbine & Building	$ 906,000	$ 858,000	$ -	$ -	$ 1,764,000	$ -
SCR	$ 60,000	$ 57,000	$ -	$ -	$ 117,000	$ -
Cooling Towers & Basin	$ 327,000	$ 310,000	$ -	$ -	$ 637,000	$ -
Stacks	$ 72,000	$ 69,000	$ -	$ -	$ 141,000	$ -
GSU, Electrical & Foundation	$ 171,000	$ 162,000	$ -	$ -	$ 333,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 122,000	$ -	$ 122,000	$ -
Debris	$ -	$ -	$ 22,000	$ -	$ 22,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (7,918,000)
Subtotal	**$ 3,659,000**	**$ 3,465,000**	**$ 144,000**	**$ -**	**$ 7,268,000**	**$ (7,918,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 114,000	$ 108,000	$ -	$ 303,000	$ 525,000	$ -
BOP Misc.	$ 10,000	$ 10,000	$ -	$ -	$ 20,000	$ -
Roads	$ 47,000	$ 45,000	$ -	$ -	$ 92,000	$ -
All BOP Buildings	$ 88,000	$ 84,000	$ -	$ -	$ 172,000	$ -
All Other Tanks	$ 626,000	$ 593,000	$ -	$ -	$ 1,219,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 25,000	$ 25,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 119,000	$ 119,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 65,000	$ 65,000	$ -
Soil Remediation Beneath Fuel Tank	$ -	$ -	$ -	$ 11,000	$ 11,000	$ -
Fuel Tank Cleaning	$ -	$ -	$ -	$ 1,000	$ 1,000	$ -
Fuel Line Flushing/Cleaning	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Well Closure	$ -	$ -	$ -	$ 44,000	$ 44,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 53,000	$ -	$ 53,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 641,000	$ 641,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (455,000)
Subtotal	**$ 885,000**	**$ 840,000**	**$ 53,000**	**$ 1,216,000**	**$ 2,994,000**	**$ (455,000)**
Buck Steam Station Subtotal	**$ 4,544,000**	**$ 4,305,000**	**$ 197,000**	**$ 1,216,000**	**$ 10,262,000**	**$ (8,373,000)**
TOTAL DECOM COST (CREDIT)					**$ 10,262,000**	**$ (8,373,000)**
PROJECT INDIRECTS (10%)					**$ 1,026,000**	
CONTINGENGY (20%)					**$ 2,052,000**	
INVENTORY ADJUSTMENT					**$ 8,219,000**	**$ (821,900)**
TOTAL PROJECT COST (CREDIT)					**$ 21,559,000**	**$ (9,194,900)**
TOTAL NET PROJECT COST (CREDIT)					**$ 12,364,100**	

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Oct 02 2023

Table A-8
Cedar Cliff
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Cedar Cliff						
Hydro Station						
Demolition	$ 425,000	$ 445,000	$ -	$ 78,000	$ 948,000	$ -
BOP Buildings	$ 4,000	$ 5,000	$ -	$ -	$ 9,000	$ -
Debris	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 17,000	$ 17,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (308,000)
Subtotal	**$ 429,000**	**$ 450,000**	**$ 6,000**	**$ 95,000**	**$ 980,000**	**$ (308,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 27,000	$ 27,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 3,000	$ 3,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 42,000**	**$ 42,000**	**$ -**
Cedar Cliff Subtotal	**$ 429,000**	**$ 450,000**	**$ 6,000**	**$ 137,000**	**$ 1,022,000**	**$ (308,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,022,000**	**$ (308,000)**
PROJECT INDIRECTS (10%)					**$ 102,000**	
CONTINGENGY (20%)					**$ 204,000**	
TOTAL PROJECT COST (CREDIT)					**$ 1,328,000**	**$ (308,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,020,000**	

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Oct 02 2023

Table A-9
Cedar Creek
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Cedar Creek						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 725,000	$ 643,000	$ -	$ -	$ 1,368,000	$ -
BOP Buildings	$ 8,000	$ 9,000	$ -	$ -	$ 17,000	$ -
Roads	$ 2,000	$ 2,000	$ -	$ -	$ 4,000	$ -
Debris	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 79,000	$ 79,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (945,000)
Subtotal	**$ 735,000**	**$ 654,000**	**$ 7,000**	**$ 79,000**	**$ 1,475,000**	**$ (945,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 180,000	$ 180,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 11,000	$ 11,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 6,000	$ 6,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 210,000**	**$ 210,000**	**$ -**
Cedar Creek Subtotal	**$ 735,000**	**$ 654,000**	**$ 7,000**	**$ 289,000**	**$ 1,685,000**	**$ (945,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,685,000**	**$ (945,000)**
PROJECT INDIRECTS (10%)					**$ 169,000**	
CONTINGENGY (20%)					**$ 337,000**	
INVENTORY ADJUSTMENT					**$ 107,000**	**$ (11,000)**
TOTAL PROJECT COST (CREDIT)					**$ 2,298,000**	**$ (956,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,342,000**	

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Oct 02 2023

Table A-10
Clemson CHP
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Clemson CHP						
Unit 1						
CTGs and HRSGs	$ 110,000	$ 107,000	$ -	$ -	$ 217,000	$ -
Stacks	$ 35,000	$ 34,000	$ -	$ -	$ 69,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Debris	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (348,000)
Subtotal	**$ 145,000**	**$ 141,000**	**$ 4,000**	**$ -**	**$ 290,000**	**$ (348,000)**
Common						
Roads	$ 7,000	$ 7,000	$ -	$ -	$ 14,000	$ -
All BOP Buildings	$ 90,000	$ 88,000	$ -	$ -	$ 178,000	$ -
Transformers & Foundation	$ 5,000	$ 5,000	$ -	$ -	$ 10,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 53,000	$ 53,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (80,000)
Subtotal	**$ 102,000**	**$ 100,000**	**$ 8,000**	**$ 53,000**	**$ 263,000**	**$ (80,000)**
Clemson CHP Subtotal	**$ 247,000**	**$ 241,000**	**$ 12,000**	**$ 53,000**	**$ 553,000**	**$ (428,000)**
TOTAL DECOM COST (CREDIT)					**$ 553,000**	**$ (428,000)**
PROJECT INDIRECTS (10%)					**$ 55,000**	
CONTINGENGY (20%)					**$ 111,000**	
INVENTORY ADJUSTMENT					**$ 357,000**	**$ (35,700)**
TOTAL PROJECT COST (CREDIT)					**$ 1,076,000**	**$ (463,700)**
TOTAL NET PROJECT COST (CREDIT)					**$ 612,300**	

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Oct 02 2023

Table A-11
Cliffside
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Cliffside						
Unit 5						
Asbestos Removal	$ -	$ -	$ -	$ 5,934,000	$ 5,934,000	$ -
Boiler	$ 4,089,000	$ 3,980,000	$ -	$ -	$ 8,069,000	$ -
Steam Turbine & Building	$ 1,388,000	$ 1,351,000	$ -	$ -	$ 2,739,000	$ -
Precipitators	$ 543,000	$ 529,000	$ -	$ -	$ 1,072,000	$ -
SCR	$ 738,000	$ 719,000	$ -	$ -	$ 1,457,000	$ -
Scrubber / FGD	$ 692,000	$ 674,000	$ -	$ -	$ 1,366,000	$ -
Cooling Towers & Basin	$ 423,000	$ 412,000	$ -	$ -	$ 835,000	$ -
Stacks	$ 75,000	$ 73,000	$ -	$ -	$ 148,000	$ -
Cooling Water Intakes and Circulating Water Pumps	$ 512,000	$ 498,000	$ -	$ 830,000	$ 1,840,000	$ -
GSU & Foundation	$ 84,000	$ 82,000	$ -	$ -	$ 166,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 216,000	$ -	$ 216,000	$ -
Debris	$ -	$ -	$ 65,000	$ -	$ 65,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (14,043,000)
Subtotal	**$ 8,544,000**	**$ 8,318,000**	**$ 281,000**	**$ 6,764,000**	**$ 23,907,000**	**$ (14,043,000)**
Unit 6						
Boiler	$ 4,901,000	$ 4,771,000	$ -	$ -	$ 9,672,000	$ -
Steam Turbine & Building	$ 1,617,000	$ 1,574,000	$ -	$ -	$ 3,191,000	$ -
Precipitator	$ 718,000	$ 699,000	$ -	$ -	$ 1,417,000	$ -
SCR	$ 895,000	$ 872,000	$ -	$ -	$ 1,767,000	$ -
Scrubber / FGD	$ 1,138,000	$ 1,108,000	$ -	$ -	$ 2,246,000	$ -
Baghouse	$ 294,000	$ 286,000	$ -	$ -	$ 580,000	$ -
Cooling Towers & Basin	$ 483,000	$ 470,000	$ -	$ -	$ 953,000	$ -
Cooling Water Intakes and Circulating Water Pumps	$ 512,000	$ 498,000	$ -	$ 730,000	$ 1,740,000	$ -
GSU & Foundation	$ 113,000	$ 110,000	$ -	$ -	$ 223,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 216,000	$ -	$ 216,000	$ -
Debris	$ -	$ -	$ 65,000	$ -	$ 65,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (17,272,000)
Subtotal	**$ 10,671,000**	**$ 10,388,000**	**$ 281,000**	**$ 730,000**	**$ 22,070,000**	**$ (17,272,000)**
Handling						
Coal Handling Facilites	$ 487,000	$ 474,000	$ -	$ -	$ 961,000	$ -
Coal Storage Area Restoration	$ -	$ -	$ -	$ 2,105,000	$ 2,105,000	$ -
Limestone Handling Facilities	$ 26,000	$ 25,000	$ -	$ -	$ 51,000	$ -
Debris	$ -	$ -	$ 83,000	$ -	$ 83,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (728,000)
Subtotal	**$ 513,000**	**$ 499,000**	**$ 83,000**	**$ 2,105,000**	**$ 3,200,000**	**$ (728,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 43,000	$ 42,000	$ -	$ -	$ 85,000	$ -
BOP Misc.	$ 9,000	$ 9,000	$ -	$ -	$ 18,000	$ -
Roads	$ 220,000	$ 214,000	$ -	$ -	$ 434,000	$ -
All BOP Buildings	$ 459,000	$ 447,000	$ -	$ -	$ 906,000	$ -
Fuel Equipment	$ 14,000	$ 14,000	$ -	$ 21,000	$ 49,000	$ -
All Other Tanks	$ 401,000	$ 390,000	$ -	$ -	$ 791,000	$ -
Transformers & Foundation	$ 28,000	$ 27,000	$ -	$ 263,000	$ 318,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Refactory	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Closure of Deep Wells	$ -	$ -	$ -	$ 9,000	$ 9,000	$ -
Pond Closure	$ -	$ -	$ -	$ 1,118,000	$ 1,118,000	$ -
Low Head Dam Removal	$ -	$ -	$ -	$ 773,000	$ 773,000	$ -
Plant Washdown & Materials Disposal	$ -	$ -	$ -	$ 57,000	$ 57,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 118,000	$ -	$ 118,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 4,440,000	$ 4,440,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (753,000)
Subtotal	**$ 1,174,000**	**$ 1,143,000**	**$ 121,000**	**$ 6,708,000**	**$ 9,146,000**	**$ (753,000)**
Cliffside Subtotal	**$ 20,902,000**	**$ 20,348,000**	**$ 766,000**	**$ 16,307,000**	**$ 58,323,000**	**$ (32,796,000)**
TOTAL DECOM COST (CREDIT)					**$ 58,323,000**	**$ (32,796,000)**
PROJECT INDIRECTS (10%)					**$ 5,832,000**	
CONTINGENGY (20%)					**$ 11,665,000**	
INVENTORY ADJUSTMENT					**$ 28,973,000**	**$ (2,897,000)**
TOTAL PROJECT COST (CREDIT)					**$ 104,793,000**	**$ (35,693,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 69,100,000**	

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Oct 02 2023

Table A-12
Cowans Ford
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Cowans Ford						
Hydro Station						
Demolition	$ 1,217,000	$ 1,062,000	$ -	$ -	$ 2,279,000	$ -
BOP Buildings	$ 9,000	$ 10,000	$ -	$ -	$ 19,000	$ -
Roads	$ 10,000	$ 12,000	$ -	$ -	$ 22,000	$ -
Debris	$ -	$ -	$ 13,000	$ -	$ 13,000	$ -
On Site Crushing	$ -	$ -	$ 2,000	$ -	$ 2,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 57,000	$ 57,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (4,196,000)
Subtotal	**$ 1,236,000**	**$ 1,084,000**	**$ 15,000**	**$ 57,000**	**$ 2,392,000**	**$ (4,196,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 416,000	$ 416,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 102,000	$ 102,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 543,000**	**$ 543,000**	**$ -**
Cowans Ford Subtotal	**$ 1,236,000**	**$ 1,084,000**	**$ 15,000**	**$ 600,000**	**$ 2,935,000**	**$ (4,196,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,935,000**	**$ (4,196,000)**
PROJECT INDIRECTS (10%)					**$ 294,000**	
CONTINGENGY (20%)					**$ 587,000**	
INVENTORY ADJUSTMENT					**$ 139,000**	**$ (14,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,955,000**	**$ (4,210,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ (255,000)**	

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Oct 02 2023

Table A-13
Dan River Steam Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Dan River Steam Station						
Unit 1						
Aux Boiler	$ 9,000	$ 9,000	$ -	$ -	$ 18,000	$ -
CTGs and HRSGs	$ 2,144,000	$ 2,087,000	$ -	$ -	$ 4,231,000	$ -
Steam Turbine & Building	$ 865,000	$ 842,000	$ -	$ -	$ 1,707,000	$ -
SCR	$ 58,000	$ 56,000	$ -	$ -	$ 114,000	$ -
Cooling Towers & Basin	$ 328,000	$ 319,000	$ -	$ -	$ 647,000	$ -
Stacks	$ 67,000	$ 65,000	$ -	$ -	$ 132,000	$ -
GSU, Electrical & Foundation	$ 157,000	$ 153,000	$ -	$ -	$ 310,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 119,000	$ -	$ 119,000	$ -
Debris	$ -	$ -	$ 19,000	$ -	$ 19,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (6,978,000)
Subtotal	**$ 3,628,000**	**$ 3,531,000**	**$ 138,000**	**$ -**	**$ 7,297,000**	**$ (6,978,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 94,000	$ 92,000	$ -	$ 505,000	$ 691,000	$ -
BOP Misc.	$ 16,000	$ 15,000	$ -	$ -	$ 31,000	$ -
Roads	$ 33,000	$ 32,000	$ -	$ -	$ 65,000	$ -
All BOP Buildings	$ 73,000	$ 71,000	$ -	$ -	$ 144,000	$ -
Fuel Equipment	$ 4,000	$ 4,000	$ -	$ -	$ 8,000	$ -
All Other Tanks	$ 402,000	$ 392,000	$ -	$ -	$ 794,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 23,000	$ 23,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 76,000	$ 76,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 66,000	$ 66,000	$ -
Low Head Dam Removal	$ -	$ -	$ -	$ 950,000	$ 950,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 34,000	$ -	$ 34,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 520,000	$ 520,000	$ -
Debris	$ -	$ -	$ 4,000	$ -	$ 4,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (377,000)
Subtotal	**$ 622,000**	**$ 606,000**	**$ 38,000**	**$ 2,140,000**	**$ 3,406,000**	**$ (377,000)**
Dan River Steam Station Subtotal	**$ 4,250,000**	**$ 4,137,000**	**$ 176,000**	**$ 2,140,000**	**$ 10,703,000**	**$ (7,355,000)**
TOTAL DECOM COST (CREDIT)					**$ 10,703,000**	**$ (7,355,000)**
PROJECT INDIRECTS (10%)					**$ 1,070,000**	
CONTINGENGY (20%)					**$ 2,141,000**	
INVENTORY ADJUSTMENT					**$ 9,857,000**	**$ (986,000)**
TOTAL PROJECT COST (CREDIT)					**$ 23,771,000**	**$ (8,341,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 15,430,000**	

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Oct 02 2023

Table A-14
Dearborn Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Dearborn Hydro Station						
Hydro Station						
Demolition	$ 740,000	$ 665,000	$ -	$ -	$ 1,405,000	$ -
Roads	$ 6,000	$ 8,000	$ -	$ -	$ 14,000	$ -
Debris	$ -	$ -	$ 9,000	$ -	$ 9,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 29,000	$ 29,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,135,000)
Subtotal	**$ 746,000**	**$ 673,000**	**$ 10,000**	**$ 29,000**	**$ 1,458,000**	**$ (1,135,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 149,000	$ 149,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 27,000	$ 27,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 8,000	$ 8,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 197,000**	**$ 197,000**	**$ -**
Dearborn Hydro Station Subtotal	**$ 746,000**	**$ 673,000**	**$ 10,000**	**$ 226,000**	**$ 1,655,000**	**$ (1,135,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,655,000**	**$ (1,135,000)**
PROJECT INDIRECTS (10%)					**$ 166,000**	
CONTINGENGY (20%)					**$ 331,000**	
INVENTORY ADJUSTMENT					**$ 25,000**	**$ (3,000)**
TOTAL PROJECT COST (CREDIT)					**$ 2,177,000**	**$ (1,138,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,039,000**	

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Oct 02 2023

Table A-15
Fishing Creek Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Fishing Creek Hydro Station						
Hydro Station						
Demolition	$ 1,132,000	$ 993,000	$ -	$ -	$ 2,125,000	$ -
Roads	$ 10,000	$ 12,000	$ -	$ -	$ 22,000	$ -
Debris	$ -	$ -	$ 7,000	$ -	$ 7,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,461,000)
Subtotal	**$ 1,142,000**	**$ 1,005,000**	**$ 8,000**	**$ 32,000**	**$ 2,187,000**	**$ (1,461,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 218,000	$ 218,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 20,000	$ 20,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 255,000**	**$ 255,000**	**$ -**
Fishing Creek Hydro Station Subtotal	**$ 1,142,000**	**$ 1,005,000**	**$ 8,000**	**$ 287,000**	**$ 2,442,000**	**$ (1,461,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,442,000**	**$ (1,461,000)**
PROJECT INDIRECTS (10%)					**$ 244,000**	
CONTINGENGY (20%)					**$ 488,000**	
INVENTORY ADJUSTMENT					**$ 100,000**	**$ (10,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,274,000**	**$ (1,471,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,803,000**	

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Oct 02 2023

Table A-16
Gaston Solar
Solar Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Gaston Solar						
Solar Farm						
Solar Panel Removal/Recycling	$ 433,000	$ 516,400	$ 84,700	$ -	$ 1,034,100	$ -
Panel Supports/Rack	$ 711,100	$ 848,000	$ -	$ -	$ 1,559,100	$ -
Electrical & Wiring	$ 56,500	$ 67,300	$ -	$ -	$ 123,800	$ -
Site Restoration	$ 41,200	$ 49,100	$ -	$ 540,300	$ 630,600	$ -
On-site Concrete Crushing and Removal	$ -	$ -	$ 2,800	$ -	$ 2,800	$ -
Debris	$ -	$ -	$ 1,600	$ -	$ 1,600	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (2,110,400)
Subtotal	**$ 1,241,800**	**$ 1,480,800**	**$ 89,100**	**$ 540,300**	**$ 3,352,000**	**$ (2,110,400)**
Gaston Solar Subtotal	**$ 1,241,800**	**$ 1,480,800**	**$ 89,100**	**$ 540,300**	**$ 3,352,000**	**$ (2,110,400)**
TOTAL DECOM COST (CREDIT)					**$ 3,352,000**	**$ (2,110,400)**
PROJECT INDIRECTS (10%)					**$ 335,200**	
CONTINGENGY (20%)					**$ 670,400**	
TOTAL PROJECT COST (CREDIT)					**$ 4,357,600**	**$ (2,110,400)**
TOTAL NET PROJECT COST (CREDIT)					**$ 2,247,200**	

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Oct 02 2023

Table A-17
Gaston Shoals Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Gaston Shoals Hydro Station						
Hydro Station						
Demolition	$ 830,000	$ 758,000	$ -	$ -	$ 1,588,000	$ -
BOP Buildings	$ 13,000	$ 16,000	$ -	$ -	$ 29,000	$ -
Roads	$ 5,000	$ 6,000	$ -	$ -	$ 11,000	$ -
Debris	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 69,000	$ 69,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (294,000)
Subtotal	**$ 848,000**	**$ 780,000**	**$ 6,000**	**$ 69,000**	**$ 1,703,000**	**$ (294,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 135,000	$ 135,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 157,000**	**$ 157,000**	**$ -**
Gaston Shoals Hydro Station Subtotal	**$ 848,000**	**$ 780,000**	**$ 6,000**	**$ 226,000**	**$ 1,860,000**	**$ (294,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,860,000**	**$ (294,000)**
PROJECT INDIRECTS (10%)					**$ 186,000**	
CONTINGENGY (20%)					**$ 372,000**	
TOTAL PROJECT COST (CREDIT)					**$ 2,418,000**	**$ (294,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 2,124,000**	

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Oct 02 2023

Table A-18
Great Falls Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Great Falls Hydro Station						
Hydro Station						
Demolition	$ 1,639,000	$ 1,413,000	$ -	$ -	$ 3,052,000	$ -
BOP Buildings	$ 50,000	$ 60,000	$ -	$ -	$ 110,000	$ -
Roads	$ 38,000	$ 45,000	$ -	$ -	$ 83,000	$ -
Debris	$ -	$ -	$ 15,000	$ -	$ 15,000	$ -
On Site Crushing	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 228,000	$ 228,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (714,000)
Subtotal	**$ 1,727,000**	**$ 1,518,000**	**$ 18,000**	**$ 228,000**	**$ 3,491,000**	**$ (714,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 304,000	$ 304,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 8,000	$ 8,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 330,000**	**$ 330,000**	**$ -**
Great Falls Hydro Station Subtotal	**$ 1,727,000**	**$ 1,518,000**	**$ 18,000**	**$ 558,000**	**$ 3,821,000**	**$ (714,000)**
TOTAL DECOM COST (CREDIT)					**$ 3,821,000**	**$ (714,000)**
PROJECT INDIRECTS (10%)					**$ 382,000**	
CONTINGENGY (20%)					**$ 764,000**	
INVENTORY ADJUSTMENT					**$ 26,000**	**$ (3,000)**
TOTAL PROJECT COST (CREDIT)					**$ 4,993,000**	**$ (717,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 4,276,000**	

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Oct 02 2023

Table A-19
Jocassee
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Jocassee						
Pumped Storage						
Pumped Storage Generating Equipment & Facilities	$ 1,700,000	$ 1,414,000	$ -	$ -	$ 3,114,000	$ -
BOP Buildings	$ 107,000	$ 128,000	$ -	$ -	$ 235,000	$ -
Roads	$ 13,000	$ 15,000	$ -	$ -	$ 28,000	$ -
Debris	$ -	$ -	$ 52,000	$ -	$ 52,000	$ -
On Site Crushing	$ -	$ -	$ 8,000	$ -	$ 8,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 75,000	$ 75,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (7,224,000)
Subtotal	**$ 1,820,000**	**$ 1,557,000**	**$ 60,000**	**$ 75,000**	**$ 3,512,000**	**$ (7,224,000)**
Facilities Environmental						
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 30,000	$ 30,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 51,000**	**$ 51,000**	**$ -**
Jocassee Subtotal	**$ 1,820,000**	**$ 1,557,000**	**$ 60,000**	**$ 126,000**	**$ 3,563,000**	**$ (7,224,000)**
TOTAL DECOM COST (CREDIT)					**$ 3,563,000**	**$ (7,224,000)**
PROJECT INDIRECTS (10%)					**$ 356,000**	
CONTINGENGY (20%)					**$ 713,000**	
TOTAL PROJECT COST (CREDIT)					**$ 4,632,000**	**$ (7,224,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ (2,592,000)**	

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Oct 02 2023

Table A-20
Keowee Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Keowee Hydro Station						
Hydro Station						
Demolition	$ 883,000	$ 790,000	$ -	$ 97,000	$ 1,770,000	$ -
BOP Buildings	$ 120,000	$ 143,000	$ -	$ -	$ 263,000	$ -
Roads	$ 4,000	$ 5,000	$ -	$ -	$ 9,000	$ -
Debris	$ -	$ -	$ 53,000	$ -	$ 53,000	$ -
On Site Crushing	$ -	$ -	$ 9,000	$ -	$ 9,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 62,000	$ 62,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (2,871,000)
Subtotal	**$ 1,007,000**	**$ 938,000**	**$ 62,000**	**$ 159,000**	**$ 2,166,000**	**$ (2,871,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 341,000	$ 341,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 89,000	$ 89,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 8,000	$ 8,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 452,000**	**$ 452,000**	**$ -**
Keowee Hydro Station Subtotal	**$ 1,007,000**	**$ 938,000**	**$ 62,000**	**$ 611,000**	**$ 2,618,000**	**$ (2,871,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,618,000**	**$ (2,871,000)**
PROJECT INDIRECTS (10%)					**$ 262,000**	
CONTINGENGY (20%)					**$ 524,000**	
TOTAL PROJECT COST (CREDIT)					**$ 3,404,000**	**$ (2,871,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 533,000**	

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Oct 02 2023

Table A-21
Lark
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Lark						
Common						
Roads	$ 88,000	$ 85,000	$ -	$ -	$ 173,000	$ -
All BOP Buildings	$ 540,000	$ 526,000	$ -	$ -	$ 1,066,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 35,000	$ -	$ 35,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 316,000	$ 316,000	$ -
Debris	$ -	$ -	$ 15,000	$ -	$ 15,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (198,000)
Subtotal	**$ 628,000**	**$ 611,000**	**$ 50,000**	**$ 316,000**	**$ 1,605,000**	**$ (198,000)**
Lark Subtotal	**$ 628,000**	**$ 611,000**	**$ 50,000**	**$ 316,000**	**$ 1,605,000**	**$ (198,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,605,000**	**$ (198,000)**
PROJECT INDIRECTS (10%)					**$ 161,000**	
CONTINGENGY (20%)					**$ 321,000**	
INVENTORY ADJUSTMENT					**$ 62,259,000**	**$ (6,226,000)**
TOTAL PROJECT COST (CREDIT)					**$ 64,346,000**	**$ (6,424,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 57,922,000**	

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Oct 02 2023

Table A-22
Lincoln
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Lincoln						
CTs 1-16						
CTGs	$ 4,137,000	$ 4,028,000	$ -	$ -	$ 8,165,000	$ -
Stacks	$ 38,000	$ 37,000	$ -	$ -	$ 75,000	$ -
GSU & Electrical	$ 212,000	$ 206,000	$ -	$ -	$ 418,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 79,000	$ -	$ 79,000	$ -
Debris	$ -	$ -	$ 37,000	$ -	$ 37,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (15,918,000)
Subtotal	**$ 4,387,000**	**$ 4,271,000**	**$ 116,000**	**$ -**	**$ 8,774,000**	**$ (15,918,000)**
Common						
Water Treatment Equipment and Piping	$ 2,000	$ 2,000	$ -	$ 480,000	$ 484,000	$ -
BOP Misc.	$ 3,000	$ 3,000	$ -	$ -	$ 6,000	$ -
Roads	$ 132,000	$ 128,000	$ -	$ -	$ 260,000	$ -
All BOP Buildings	$ 152,000	$ 148,000	$ -	$ -	$ 300,000	$ -
Fuel Equipment	$ 483,000	$ 470,000	$ -	$ -	$ 953,000	$ -
All Other Tanks	$ 244,000	$ 238,000	$ -	$ -	$ 482,000	$ -
Transformers & Foundation	$ 5,000	$ 5,000	$ -	$ -	$ 10,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 19,000	$ 19,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 295,000	$ 295,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 53,000	$ 53,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 193,000	$ 193,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 79,000	$ 79,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 42,000	$ 42,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 51,000	$ -	$ 51,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 976,000	$ 976,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (609,000)
Subtotal	**$ 1,021,000**	**$ 994,000**	**$ 54,000**	**$ 2,137,000**	**$ 4,206,000**	**$ (609,000)**
Lincoln Subtotal	**$ 5,408,000**	**$ 5,265,000**	**$ 170,000**	**$ 2,137,000**	**$ 12,980,000**	**$ (16,527,000)**
TOTAL DECOM COST (CREDIT)					**$ 12,980,000**	**$ (16,527,000)**
PROJECT INDIRECTS (10%)					**$ 1,298,000**	
CONTINGENGY (20%)					**$ 2,596,000**	
INVENTORY ADJUSTMENT					**$ 1,761,000**	**$ (440,000)**
TOTAL PROJECT COST (CREDIT)					**$ 18,635,000**	**$ (16,967,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,668,000**	

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Oct 02 2023

Table A-23
Lookout Shoals Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Lookout Shoals Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 667,000	$ 637,000	$ -	$ -	$ 1,304,000	$ -
BOP Buildings	$ 5,000	$ 6,000	$ -	$ -	$ 11,000	$ -
Roads	$ 8,000	$ 9,000	$ -	$ -	$ 17,000	$ -
Debris	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 44,000	$ 44,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (773,000)
Subtotal	**$ 680,000**	**$ 652,000**	**$ 6,000**	**$ 44,000**	**$ 1,382,000**	**$ (773,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 136,000	$ 136,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 20,000	$ 20,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 2,000	$ 2,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 171,000**	**$ 171,000**	**$ -**
Lookout Shoals Hydro Station Subtotal	**$ 680,000**	**$ 652,000**	**$ 6,000**	**$ 215,000**	**$ 1,553,000**	**$ (773,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,553,000**	**$ (773,000)**
PROJECT INDIRECTS (10%)					**$ 155,000**	
CONTINGENGY (20%)					**$ 311,000**	
INVENTORY ADJUSTMENT					**$ 127,000**	**$ (13,000)**
TOTAL PROJECT COST (CREDIT)					**$ 2,146,000**	**$ (786,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,360,000**	

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Oct 02 2023

Table A-24
Maiden Creek
Solar Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Maiden Creek						
Solar Farm						
O&M Building	$ 4,000	$ 4,700	$ -	$ -	$ 8,700	$ -
Solar Panel Removal/Recycling	$ 1,222,900	$ 1,458,400	$ 212,100	$ -	$ 2,893,400	$ -
Panel Supports/Rack	$ 3,267,500	$ 3,896,500	$ -	$ -	$ 7,164,000	$ -
Electrical & Wiring	$ 126,900	$ 151,200	$ -	$ -	$ 278,100	$ -
Site Restoration	$ 135,200	$ 161,200	$ -	$ 1,443,600	$ 1,740,000	$ -
On-site Concrete Crushing and Removal	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
Debris	$ -	$ -	$ 3,300	$ -	$ 3,300	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (8,677,000)
Subtotal	**$ 4,756,500**	**$ 5,672,000**	**$ 221,400**	**$ 1,443,600**	**$ 12,093,500**	**$ (8,677,000)**
Maiden Creek Subtotal	**$ 4,756,500**	**$ 5,672,000**	**$ 221,400**	**$ 1,443,600**	**$ 12,093,500**	**$ (8,677,000)**
TOTAL DECOM COST (CREDIT)					**$ 12,093,500**	**$ (8,677,000)**
PROJECT INDIRECTS (10%)					**$ 1,209,400**	
CONTINGENGY (20%)					**$ 2,418,700**	
INVENTORY ADJUSTMENT					**$ 63,700**	**$ (6,400)**
TOTAL PROJECT COST (CREDIT)					**$ 15,785,300**	**$ (8,683,400)**
TOTAL NET PROJECT COST (CREDIT)					**$ 7,101,900**	

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Oct 02 2023

Table A-25
Marshall Steam Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Marshall Steam Station						
Unit 1						
Boiler	$ 1,391,000	$ 1,354,000	$ -	$ -	$ 2,745,000	$ -
Steam Turbine & Building	$ 1,097,000	$ 1,068,000	$ -	$ -	$ 2,165,000	$ -
Precipitators	$ 440,000	$ 428,000	$ -	$ -	$ 868,000	$ -
Scrubber / FGD	$ 219,000	$ 213,000	$ -	$ 27,000	$ 459,000	$ -
Stacks	$ 124,000	$ 121,000	$ -	$ -	$ 245,000	$ -
GSU & Foundation	$ 38,000	$ 37,000	$ -	$ -	$ 75,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 99,000	$ -	$ 99,000	$ -
Debris	$ -	$ -	$ 78,000	$ -	$ 78,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (7,259,000)
Subtotal	**$ 3,309,000**	**$ 3,221,000**	**$ 177,000**	**$ 27,000**	**$ 6,734,000**	**$ (7,259,000)**
Unit 2						
Boiler	$ 1,405,000	$ 1,368,000	$ -	$ -	$ 2,773,000	$ -
Steam Turbine & Building	$ 1,097,000	$ 1,068,000	$ -	$ -	$ 2,165,000	$ -
Precipitator	$ 440,000	$ 428,000	$ -	$ -	$ 868,000	$ -
Scrubber / FGD	$ 219,000	$ 213,000	$ -	$ 27,000	$ 459,000	$ -
Stacks	$ 124,000	$ 121,000	$ -	$ -	$ 245,000	$ -
GSU & Foundation	$ 38,000	$ 37,000	$ -	$ -	$ 75,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 110,000	$ -	$ 110,000	$ -
Debris	$ -	$ -	$ 78,000	$ -	$ 78,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (6,987,000)
Subtotal	**$ 3,323,000**	**$ 3,235,000**	**$ 188,000**	**$ 27,000**	**$ 6,773,000**	**$ (6,987,000)**
Unit 3						
Boiler	$ 2,239,000	$ 2,179,000	$ -	$ -	$ 4,418,000	$ -
Steam Turbine & Building	$ 1,568,000	$ 1,527,000	$ -	$ -	$ 3,095,000	$ -
Precipitator	$ 607,000	$ 590,000	$ -	$ -	$ 1,197,000	$ -
SCR	$ 808,000	$ 787,000	$ -	$ -	$ 1,595,000	$ -
Scrubber / FGD	$ 444,000	$ 433,000	$ -	$ 47,000	$ 924,000	$ -
Stacks	$ 35,000	$ 34,000	$ -	$ -	$ 69,000	$ -
GSU & Foundation	$ 46,000	$ 45,000	$ -	$ -	$ 91,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 131,000	$ -	$ 131,000	$ -
Debris	$ -	$ -	$ 41,000	$ -	$ 41,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (10,996,000)
Subtotal	**$ 5,747,000**	**$ 5,595,000**	**$ 172,000**	**$ 47,000**	**$ 11,561,000**	**$ (10,996,000)**
Unit 4						
Boiler	$ 2,329,000	$ 2,267,000	$ -	$ -	$ 4,596,000	$ -
Steam Turbine & Building	$ 1,568,000	$ 1,526,000	$ -	$ -	$ 3,094,000	$ -
Precipitator	$ 607,000	$ 590,000	$ -	$ -	$ 1,197,000	$ -
Scrubber / FGD	$ 445,000	$ 434,000	$ -	$ 53,000	$ 932,000	$ -
Stacks	$ 35,000	$ 34,000	$ -	$ -	$ 69,000	$ -
GSU & Foundation	$ 53,000	$ 51,000	$ -	$ -	$ 104,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 131,000	$ -	$ 131,000	$ -
Debris	$ -	$ -	$ 42,000	$ -	$ 42,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (9,452,000)
Subtotal	**$ 5,037,000**	**$ 4,902,000**	**$ 173,000**	**$ 53,000**	**$ 10,165,000**	**$ (9,452,000)**
Handling						
Coal Handling Facilites	$ 333,000	$ 324,000	$ -	$ -	$ 657,000	$ -
Coal Storage Area Restoration	$ -	$ -	$ -	$ 3,158,000	$ 3,158,000	$ -
Limestone Handling Facilities	$ 106,000	$ 103,000	$ -	$ -	$ 209,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 13,000	$ -	$ 13,000	$ -
Debris	$ -	$ -	$ 34,000	$ -	$ 34,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (511,000)
Subtotal	**$ 439,000**	**$ 427,000**	**$ 47,000**	**$ 3,158,000**	**$ 4,071,000**	**$ (511,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 212,000	$ 207,000	$ -	$ 565,000	$ 984,000	$ -
Roads	$ 21,000	$ 21,000	$ -	$ -	$ 42,000	$ -
All BOP Buildings	$ 182,000	$ 177,000	$ -	$ -	$ 359,000	$ -
Fuel Equipment	$ 130,000	$ 127,000	$ -	$ -	$ 257,000	$ -
All Other Tanks	$ 11,000	$ 11,000	$ -	$ -	$ 22,000	$ -
Transformers & Foundation	$ 11,000	$ 10,000	$ -	$ -	$ 21,000	$ -
Refractory Disposal	$ -	$ -	$ -	$ 27,000	$ 27,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 63,000	$ 63,000	$ -
Plant Wash Down & Disposal	$ -	$ -	$ -	$ 55,000	$ 55,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 247,000	$ 247,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 26,000	$ 26,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 21,000	$ 21,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 40,000	$ 40,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Well Closure	$ -	$ -	$ -	$ 16,000	$ 16,000	$ -
Pond Closure	$ -	$ -	$ -	$ 89,000	$ 89,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 49,000	$ -	$ 49,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 3,956,000	$ 3,956,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (2,846,000)

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Subtotal	$ 567,000	$ 553,000	$ 52,000	$ 5,137,000	$ 6,309,000	$ (2,846,000)
Marshall Steam Station Subtotal	$ 18,422,000	$ 17,933,000	$ 809,000	$ 8,449,000	$ 45,613,000	$ (38,051,000)
TOTAL DECOM COST (CREDIT)					$ 45,613,000	$ (38,051,000)
PROJECT INDIRECTS (10%)					$ 4,561,000	
CONTINGENGY (20%)					$ 9,123,000	
INVENTORY ADJUSTMENT					$ 20,743,000	$ (2,074,000)
TOTAL PROJECT COST (CREDIT)					$ 80,040,000	$ (40,125,000)
TOTAL NET PROJECT COST (CREDIT)					$ 39,915,000	

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Oct 02 2023

Table A-26
Mill Creek
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Mill Creek						
CTs 1-8						
CTGs	$ 1,048,000	$ 992,000	$ -	$ -	$ 2,040,000	$ -
Stacks	$ 39,000	$ 37,000	$ -	$ -	$ 76,000	$ -
GSU & Electrical	$ 127,000	$ 121,000	$ -	$ -	$ 248,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 14,000	$ -	$ 14,000	$ -
Debris	$ -	$ -	$ 15,000	$ -	$ 15,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (5,939,000)
Subtotal	**$ 1,214,000**	**$ 1,150,000**	**$ 29,000**	**$ -**	**$ 2,393,000**	**$ (5,939,000)**
Common						
BOP Misc.	$ 48,000	$ 46,000	$ -	$ -	$ 94,000	$ -
Roads	$ 52,000	$ 49,000	$ -	$ -	$ 101,000	$ -
All BOP Buildings	$ 80,000	$ 75,000	$ -	$ -	$ 155,000	$ -
Fuel Equipment	$ 111,000	$ 105,000	$ -	$ -	$ 216,000	$ -
All Other Tanks	$ 42,000	$ 40,000	$ -	$ -	$ 82,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 80,000	$ 80,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 221,000	$ 221,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 57,000	$ 57,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Pond Closure	$ -	$ -	$ -	$ 74,000	$ 74,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 13,000	$ -	$ 13,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 851,000	$ 851,000	$ -
Debris	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (267,000)
Subtotal	**$ 333,000**	**$ 315,000**	**$ 14,000**	**$ 1,362,000**	**$ 2,024,000**	**$ (267,000)**
Mill Creek Subtotal	**$ 1,547,000**	**$ 1,465,000**	**$ 43,000**	**$ 1,362,000**	**$ 4,417,000**	**$ (6,206,000)**
TOTAL DECOM COST (CREDIT)					**$ 4,417,000**	**$ (6,206,000)**
PROJECT INDIRECTS (10%)					**$ 442,000**	
CONTINGENGY (20%)					**$ 883,000**	
INVENTORY ADJUSTMENT					**$ 766,000**	**$ (191,000)**
TOTAL PROJECT COST (CREDIT)					**$ 6,508,000**	**$ (6,397,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 111,000**	

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Oct 02 2023

Table A-27
Mocksville Solar
Solar Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Mocksville Solar						
Solar Farm						
O&M Building	$ 4,300	$ 5,100	$ -	$ -	$ 9,400	$ -
Solar Panel Removal/Recycling	$ 357,100	$ 425,800	$ 81,000	$ -	$ 863,900	$ -
Panel Supports/Rack	$ 264,100	$ 315,000	$ -	$ -	$ 579,100	$ -
Electrical & Wiring	$ 151,500	$ 180,600	$ -	$ -	$ 332,100	$ -
Site Restoration	$ 55,600	$ 66,300	$ -	$ 365,100	$ 487,000	$ -
On-site Concrete Crushing and Removal	$ -	$ -	$ 6,600	$ -	$ 6,600	$ -
Debris	$ -	$ -	$ 1,700	$ -	$ 1,700	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,099,900)
Subtotal	**$ 832,600**	**$ 992,800**	**$ 89,300**	**$ 365,100**	**$ 2,279,800**	**$ (1,099,900)**
Mocksville Solar Subtotal	**$ 832,600**	**$ 992,800**	**$ 89,300**	**$ 365,100**	**$ 2,279,800**	**$ (1,099,900)**
TOTAL DECOM COST (CREDIT)					**$ 2,279,800**	**$ (1,099,900)**
PROJECT INDIRECTS (10%)					**$ 228,000**	
CONTINGENGY (20%)					**$ 456,000**	
TOTAL PROJECT COST (CREDIT)					**$ 2,963,800**	**$ (1,099,900)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,863,900**	

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Oct 02 2023

Table A-28
Monroe
Solar Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Monroe						
Solar Farm						
Solar Panel Removal/Recycling	$ 1,762,100	$ 2,101,300	$ 444,300	$ -	$ 4,307,700	$ -
Panel Supports/Rack	$ 1,413,000	$ 1,685,100	$ -	$ -	$ 3,098,100	$ -
Electrical & Wiring	$ 248,000	$ 295,700	$ -	$ -	$ 543,700	$ -
Site Restoration	$ 84,400	$ 100,600	$ -	$ 1,425,900	$ 1,610,900	$ -
On-site Concrete Crushing and Removal	$ -	$ -	$ 4,300	$ -	$ 4,300	$ -
Debris	$ -	$ -	$ 5,600	$ -	$ 5,600	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (4,512,500)
Subtotal	**$ 3,507,500**	**$ 4,182,700**	**$ 454,200**	**$ 1,425,900**	**$ 9,570,300**	**$ (4,512,500)**
Monroe Subtotal	**$ 3,507,500**	**$ 4,182,700**	**$ 454,200**	**$ 1,425,900**	**$ 9,570,300**	**$ (4,512,500)**
TOTAL DECOM COST (CREDIT)					**$ 9,570,300**	**$ (4,512,500)**
PROJECT INDIRECTS (10%)					**$ 957,000**	
CONTINGENGY (20%)					**$ 1,914,100**	
INVENTORY ADJUSTMENT					**$ 45,100**	**$ (4,500)**
TOTAL PROJECT COST (CREDIT)					**$ 12,486,500**	**$ (4,517,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 7,969,500**	

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Oct 02 2023

Table A-29
Mountain Island
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Mountain Island						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 897,000	$ 808,000	$ -	$ -	$ 1,705,000	$ -
BOP Buildings	$ 7,000	$ 8,000	$ -	$ -	$ 15,000	$ -
Roads	$ 4,000	$ 5,000	$ -	$ -	$ 9,000	$ -
Debris	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 52,000	$ 52,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,310,000)
Subtotal	**$ 908,000**	**$ 821,000**	**$ 6,000**	**$ 52,000**	**$ 1,787,000**	**$ (1,310,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 486,000	$ 486,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 510,000**	**$ 510,000**	**$ -**
Mountain Island Subtotal	**$ 908,000**	**$ 821,000**	**$ 6,000**	**$ 562,000**	**$ 2,297,000**	**$ (1,310,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,297,000**	**$ (1,310,000)**
PROJECT INDIRECTS (10%)					**$ 230,000**	
CONTINGENGY (20%)					**$ 459,000**	
INVENTORY ADJUSTMENT					**$ 87,000**	**$ (9,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,073,000**	**$ (1,319,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,754,000**	

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Oct 02 2023

Table A-30
Nantahala Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Nantahala Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 449,000	$ 449,000	$ -	$ -	$ 898,000	$ -
BOP Buildings	$ 48,000	$ 57,000	$ -	$ -	$ 105,000	$ -
Roads	$ 16,000	$ 19,000	$ -	$ -	$ 35,000	$ -
Debris	$ -	$ -	$ 30,000	$ -	$ 30,000	$ -
On Site Crushing	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 237,000	$ 237,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (838,000)
Subtotal	**$ 513,000**	**$ 525,000**	**$ 33,000**	**$ 237,000**	**$ 1,308,000**	**$ (838,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 86,000	$ 86,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 18,000	$ 18,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 120,000**	**$ 120,000**	**$ -**
Nantahala Hydro Station Subtotal	**$ 513,000**	**$ 525,000**	**$ 33,000**	**$ 357,000**	**$ 1,428,000**	**$ (838,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,428,000**	**$ (838,000)**
PROJECT INDIRECTS (10%)					**$ 143,000**	
CONTINGENGY (20%)					**$ 286,000**	
INVENTORY ADJUSTMENT					**$ 51,000**	**$ (5,000)**
TOTAL PROJECT COST (CREDIT)					**$ 1,908,000**	**$ (843,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,065,000**	

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Oct 02 2023

Table A-31
Oxford Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Oxford Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 513,000	$ 504,000	$ -	$ -	$ 1,017,000	$ -
BOP Buildings	$ 8,000	$ 10,000	$ -	$ -	$ 18,000	$ -
Roads	$ 10,000	$ 11,000	$ -	$ -	$ 21,000	$ -
Debris	$ -	$ -	$ 7,000	$ -	$ 7,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 79,000	$ 79,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (898,000)
Subtotal	**$ 531,000**	**$ 525,000**	**$ 8,000**	**$ 79,000**	**$ 1,143,000**	**$ (898,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 141,000	$ 141,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 35,000	$ 35,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 193,000**	**$ 193,000**	**$ -**
Oxford Hydro Station Subtotal	**$ 531,000**	**$ 525,000**	**$ 8,000**	**$ 272,000**	**$ 1,336,000**	**$ (898,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,336,000**	**$ (898,000)**
PROJECT INDIRECTS (10%)					**$ 134,000**	
CONTINGENGY (20%)					**$ 267,000**	
INVENTORY ADJUSTMENT					**$ 96,000**	**$ (10,000)**
TOTAL PROJECT COST (CREDIT)					**$ 1,833,000**	**$ (908,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 925,000**	

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Oct 02 2023

Table A-32
Queens Creek Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Queens Creek Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 302,000	$ 339,000	$ -	$ -	$ 641,000	$ -
BOP Buildings	$ 4,000	$ 5,000	$ -	$ -	$ 9,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 189,000	$ 189,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (197,000)
Subtotal	**$ 306,000**	**$ 344,000**	**$ 3,000**	**$ 189,000**	**$ 842,000**	**$ (197,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 11,000	$ 11,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 1,000	$ 1,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 29,000**	**$ 29,000**	**$ -**
Queens Creek Hydro Station Subtotal	**$ 306,000**	**$ 344,000**	**$ 3,000**	**$ 218,000**	**$ 871,000**	**$ (197,000)**
TOTAL DECOM COST (CREDIT)					**$ 871,000**	**$ (197,000)**
PROJECT INDIRECTS (10%)					**$ 87,000**	
CONTINGENGY (20%)					**$ 174,000**	
TOTAL PROJECT COST (CREDIT)					**$ 1,132,000**	**$ (197,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 935,000**	

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Oct 02 2023

Table A-33
Rhodhiss Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Rhodhiss Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 681,000	$ 646,000	$ -	$ -	$ 1,327,000	$ -
Roads	$ 6,000	$ 7,000	$ -	$ -	$ 13,000	$ -
Debris	$ -	$ -	$ 4,000	$ -	$ 4,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 39,000	$ 39,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (935,000)
Subtotal	**$ 687,000**	**$ 653,000**	**$ 4,000**	**$ 39,000**	**$ 1,383,000**	**$ (935,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 233,000	$ 233,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 22,000	$ 22,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 3,000	$ 3,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 271,000**	**$ 271,000**	**$ -**
Rhodhiss Hydro Station Subtotal	**$ 687,000**	**$ 653,000**	**$ 4,000**	**$ 310,000**	**$ 1,654,000**	**$ (935,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,654,000**	**$ (935,000)**
PROJECT INDIRECTS (10%)					**$ 165,000**	
CONTINGENGY (20%)					**$ 331,000**	
INVENTORY ADJUSTMENT					**$ 111,000**	**$ (11,000)**
TOTAL PROJECT COST (CREDIT)					**$ 2,261,000**	**$ (946,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,315,000**	

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Oct 02 2023

Table A-34
Rockingham
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Rockingham						
CTs 1-5						
CTGs	$ 1,348,000	$ 1,276,000	$ -	$ -	$ 2,624,000	$ -
Stacks	$ 30,000	$ 28,000	$ -	$ -	$ 58,000	$ -
GSU & Electrical	$ 198,000	$ 187,000	$ -	$ -	$ 385,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 28,000	$ -	$ 28,000	$ -
Debris	$ -	$ -	$ 23,000	$ -	$ 23,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (6,190,000)
Subtotal	**$ 1,576,000**	**$ 1,491,000**	**$ 51,000**	**$ -**	**$ 3,118,000**	**$ (6,190,000)**
Common						
BOP Misc.	$ 13,000	$ 13,000	$ -	$ -	$ 26,000	$ -
Roads	$ 19,000	$ 18,000	$ -	$ -	$ 37,000	$ -
All BOP Buildings	$ 44,000	$ 41,000	$ -	$ -	$ 85,000	$ -
Fuel Equipment	$ 25,000	$ 24,000	$ -	$ -	$ 49,000	$ -
All Other Tanks	$ 33,000	$ 31,000	$ -	$ -	$ 64,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 256,000	$ 256,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 56,000	$ 56,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 196,000	$ 196,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 69,000	$ 69,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 14,000	$ 14,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 547,000	$ 547,000	$ -
Debris	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (157,000)
Subtotal	**$ 134,000**	**$ 127,000**	**$ 4,000**	**$ 1,152,000**	**$ 1,417,000**	**$ (157,000)**
Rockingham Subtotal	**$ 1,710,000**	**$ 1,618,000**	**$ 55,000**	**$ 1,152,000**	**$ 4,535,000**	**$ (6,347,000)**
TOTAL DECOM COST (CREDIT)					**$ 4,535,000**	**$ (6,347,000)**
PROJECT INDIRECTS (10%)					**$ 454,000**	
CONTINGENGY (20%)					**$ 907,000**	
INVENTORY ADJUSTMENT					**$ 1,689,000**	**$ (422,000)**
TOTAL PROJECT COST (CREDIT)					**$ 7,585,000**	**$ (6,769,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 816,000**	

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Oct 02 2023

Table A-35
Rocky Creek Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Rocky Creek Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 1,647,000	$ 1,422,000	$ -	$ -	$ 3,069,000	$ -
BOP Buildings	$ 20,000	$ 24,000	$ -	$ -	$ 44,000	$ -
Roads	$ 5,000	$ 6,000	$ -	$ -	$ 11,000	$ -
Debris	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 38,000	$ 38,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,003,000)
Subtotal	**$ 1,672,000**	**$ 1,452,000**	**$ 7,000**	**$ 38,000**	**$ 3,169,000**	**$ (1,003,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 215,000	$ 215,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 10,000	$ 10,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 243,000**	**$ 243,000**	**$ -**
Rocky Creek Hydro Station Subtotal	**$ 1,672,000**	**$ 1,452,000**	**$ 7,000**	**$ 281,000**	**$ 3,412,000**	**$ (1,003,000)**
TOTAL DECOM COST (CREDIT)					**$ 3,412,000**	**$ (1,003,000)**
PROJECT INDIRECTS (10%)					**$ 341,000**	
CONTINGENGY (20%)					**$ 682,000**	
INVENTORY ADJUSTMENT					**$ 9,000**	**$ (1,000)**
TOTAL PROJECT COST (CREDIT)					**$ 4,444,000**	**$ (1,004,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 3,440,000**	

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Oct 02 2023

Table A-36
Tennessee Creek Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Tennessee Creek Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 348,000	$ 358,000	$ -	$ 794,000	$ 1,500,000	$ -
BOP Buildings	$ 16,000	$ 19,000	$ -	$ -	$ 35,000	$ -
Debris	$ -	$ -	$ 12,000	$ -	$ 12,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 11,000	$ 11,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (386,000)
Subtotal	**$ 364,000**	**$ 377,000**	**$ 13,000**	**$ 805,000**	**$ 1,559,000**	**$ (386,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 28,000	$ 28,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 2,000	$ 2,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 42,000**	**$ 42,000**	**$ -**
Tennessee Creek Hydro Station Subtotal	**$ 364,000**	**$ 377,000**	**$ 13,000**	**$ 847,000**	**$ 1,601,000**	**$ (386,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,601,000**	**$ (386,000)**
PROJECT INDIRECTS (10%)					**$ 160,000**	
CONTINGENGY (20%)					**$ 320,000**	
TOTAL PROJECT COST (CREDIT)					**$ 2,081,000**	**$ (386,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,695,000**	

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Oct 02 2023

Table A-37
Thorpe Hydro Station
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Thorpe Hydro Station						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 370,000	$ 378,000	$ -	$ 1,527,000	$ 2,275,000	$ -
BOP Buildings	$ 72,000	$ 86,000	$ -	$ -	$ 158,000	$ -
Debris	$ -	$ -	$ 42,000	$ -	$ 42,000	$ -
On Site Crushing	$ -	$ -	$ 5,000	$ -	$ 5,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 93,000	$ 93,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (527,000)
Subtotal	**$ 442,000**	**$ 464,000**	**$ 47,000**	**$ 1,620,000**	**$ 2,573,000**	**$ (527,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 141,000	$ 141,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 172,000**	**$ 172,000**	**$ -**
Thorpe Hydro Station Subtotal	**$ 442,000**	**$ 464,000**	**$ 47,000**	**$ 1,792,000**	**$ 2,745,000**	**$ (527,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,745,000**	**$ (527,000)**
PROJECT INDIRECTS (10%)					**$ 275,000**	
CONTINGENGY (20%)					**$ 549,000**	
TOTAL PROJECT COST (CREDIT)					**$ 3,569,000**	**$ (527,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 3,042,000**	

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Oct 02 2023

Table A-38
Tuckasegee
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Tuckasegee						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 254,000	$ 281,000	$ -	$ 859,000	$ 1,394,000	$ -
BOP Buildings	$ 8,000	$ 10,000	$ -	$ -	$ 18,000	$ -
Debris	$ -	$ -	$ 8,000	$ -	$ 8,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 25,000	$ 25,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (154,000)
Subtotal	**$ 262,000**	**$ 291,000**	**$ 9,000**	**$ 884,000**	**$ 1,446,000**	**$ (154,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 20,000	$ 20,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 12,000	$ 12,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 4,000	$ 4,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 51,000**	**$ 51,000**	**$ -**
Tuckasegee Subtotal	**$ 262,000**	**$ 291,000**	**$ 9,000**	**$ 935,000**	**$ 1,497,000**	**$ (154,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,497,000**	**$ (154,000)**
PROJECT INDIRECTS (5%)					**$ 75,000**	
CONTINGENGY (20%)					**$ 299,000**	
TOTAL PROJECT COST (CREDIT)					**$ 1,871,000**	**$ (154,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,717,000**	

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Oct 02 2023

Table A-39
Wateree
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Wateree						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 1,229,000	$ 978,000	$ -	$ -	$ 2,207,000	$ -
Roads	$ 13,000	$ 15,000	$ -	$ -	$ 28,000	$ -
Debris	$ -	$ -	$ 8,000	$ -	$ 8,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 73,000	$ 73,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,690,000)
Subtotal	**$ 1,242,000**	**$ 993,000**	**$ 9,000**	**$ 73,000**	**$ 2,317,000**	**$ (1,690,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 273,000	$ 273,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 16,000	$ 16,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 9,000	$ 9,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 313,000**	**$ 313,000**	**$ -**
Wateree Subtotal	**$ 1,242,000**	**$ 993,000**	**$ 9,000**	**$ 386,000**	**$ 2,630,000**	**$ (1,690,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,630,000**	**$ (1,690,000)**
PROJECT INDIRECTS (10%)					**$ 263,000**	
CONTINGENGY (20%)					**$ 526,000**	
INVENTORY ADJUSTMENT					**$ 302,000**	**$ (30,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,721,000**	**$ (1,720,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 2,001,000**	

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Oct 02 2023

Table A-40
Woodleaf Solar
Solar Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Woodleaf Solar						
Solar Farm						
Solar Panel Removal/Recycling	$ 149,500	$ 178,300	$ 26,700	$ -	$ 354,500	$ -
Panel Supports/Rack	$ 131,400	$ 156,700	$ -	$ -	$ 288,100	$ -
Electrical & Wiring	$ 24,300	$ 28,800	$ -	$ -	$ 53,100	$ -
Site Restoration	$ 26,000	$ 31,000	$ -	$ 237,200	$ 294,200	$ -
On-site Concrete Crushing and Removal	$ -	$ -	$ 1,400	$ -	$ 1,400	$ -
Debris	$ -	$ -	$ 300	$ -	$ 300	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (407,500)
Subtotal	**$ 331,200**	**$ 394,800**	**$ 28,400**	**$ 237,200**	**$ 991,600**	**$ (407,500)**
Woodleaf Solar Subtotal	**$ 331,200**	**$ 394,800**	**$ 28,400**	**$ 237,200**	**$ 991,600**	**$ (407,500)**
TOTAL DECOM COST (CREDIT)					**$ 991,600**	**$ (407,500)**
PROJECT INDIRECTS (10%)					**$ 99,200**	
CONTINGENGY (20%)					**$ 198,300**	
INVENTORY ADJUSTMENT					**$ 9,700**	**$ (1,000)**
TOTAL PROJECT COST (CREDIT)					**$ 1,298,800**	**$ (408,500)**
TOTAL NET PROJECT COST (CREDIT)					**$ 890,300**	

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Oct 02 2023

Table A-41
W.S. Lee CT
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
W.S. Lee CT						
CTs 7 & 8						
CTGs	$ 195,000	$ 190,000	$ -	$ -	$ 385,000	$ -
Stacks	$ 10,000	$ 10,000	$ -	$ -	$ 20,000	$ -
GSU & Electrical	$ 42,000	$ 41,000	$ -	$ -	$ 83,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 6,000	$ -	$ 6,000	$ -
Debris	$ -	$ -	$ 3,000	$ -	$ 3,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (853,000)
Subtotal	**$ 247,000**	**$ 241,000**	**$ 9,000**	**$ -**	**$ 497,000**	**$ (853,000)**
Common						
BOP Misc.	$ 14,000	$ 14,000	$ -	$ -	$ 28,000	$ -
Roads	$ 14,000	$ 13,000	$ -	$ -	$ 27,000	$ -
All BOP Buildings	$ 92,000	$ 89,000	$ -	$ -	$ 181,000	$ -
Fuel Equipment	$ 53,000	$ 51,000	$ -	$ -	$ 104,000	$ -
All Other Tanks	$ 30,000	$ 29,000	$ -	$ -	$ 59,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 16,000	$ 16,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 32,000	$ 32,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Soil Remediation Beneath Fuel Oil Tank	$ -	$ -	$ -	$ 233,000	$ 233,000	$ -
Fuel Oil Tank Cleaning	$ -	$ -	$ -	$ 25,000	$ 25,000	$ -
Fuel Oil Line Flushing/Cleaning	$ -	$ -	$ -	$ 49,000	$ 49,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 7,000	$ -	$ 7,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 148,000	$ 148,000	$ -
Debris	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (209,000)
Subtotal	**$ 203,000**	**$ 196,000**	**$ 8,000**	**$ 518,000**	**$ 925,000**	**$ (209,000)**
W.S. Lee CT Subtotal	**$ 450,000**	**$ 437,000**	**$ 17,000**	**$ 518,000**	**$ 1,422,000**	**$ (1,062,000)**
TOTAL DECOM COST (CREDIT)					**$ 1,422,000**	**$ (1,062,000)**
PROJECT INDIRECTS (10%)					**$ 142,000**	
CONTINGENGY (20%)					**$ 284,000**	
TOTAL PROJECT COST (CREDIT)					**$ 1,848,000**	**$ (1,062,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 786,000**	

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Oct 02 2023

Table A-42
W.S. Lee Steam
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
W.S. Lee Steam						
Unit 3						
Asbestos Removal	$ -	$ -	$ -	$ 2,375,000	$ 2,375,000	$ -
Boiler	$ 1,041,000	$ 1,014,000	$ -	$ -	$ 2,055,000	$ -
Steam Turbine & Building	$ 606,000	$ 590,000	$ -	$ -	$ 1,196,000	$ -
Precipitators	$ 356,000	$ 347,000	$ -	$ -	$ 703,000	$ -
Cooling Towers & Basin	$ 191,000	$ 186,000	$ -	$ -	$ 377,000	$ -
Stacks	$ 26,000	$ 26,000	$ -	$ -	$ 52,000	$ -
GSU & Electrical	$ 59,000	$ 58,000	$ -	$ -	$ 117,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 57,000	$ -	$ 57,000	$ -
Debris	$ -	$ -	$ 86,000	$ -	$ 86,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (4,496,000)
Subtotal	**$ 2,279,000**	**$ 2,221,000**	**$ 143,000**	**$ 2,375,000**	**$ 7,018,000**	**$ (4,496,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 19,000	$ 18,000	$ -	$ 147,000	$ 184,000	$ -
Roads	$ 27,000	$ 27,000	$ -	$ -	$ 54,000	$ -
All BOP Buildings	$ 60,000	$ 59,000	$ -	$ -	$ 119,000	$ -
Fuel Equipment	$ 6,000	$ 6,000	$ -	$ -	$ 12,000	$ -
All Other Tanks	$ 36,000	$ 35,000	$ -	$ -	$ 71,000	$ -
Refractory Disposal	$ -	$ -	$ -	$ 15,000	$ 15,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 23,000	$ 23,000	$ -
Plant Wash Down & Disposal	$ -	$ -	$ -	$ 59,000	$ 59,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 81,000	$ 81,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Pond Closure	$ -	$ -	$ -	$ 1,098,000	$ 1,098,000	$ -
Low Head Dam Removal	$ -	$ -	$ -	$ 950,000	$ 950,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 4,000	$ -	$ 4,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 876,000	$ 876,000	$ -
Debris	$ -	$ -	$ 8,000	$ -	$ 8,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (118,000)
Subtotal	**$ 148,000**	**$ 145,000**	**$ 12,000**	**$ 3,256,000**	**$ 3,561,000**	**$ (118,000)**
W.S. Lee Steam Subtotal	**$ 2,427,000**	**$ 2,366,000**	**$ 155,000**	**$ 5,631,000**	**$ 10,579,000**	**$ (4,614,000)**
TOTAL DECOM COST (CREDIT)					**$ 10,579,000**	**$ (4,614,000)**
PROJECT INDIRECTS (10%)					**$ 1,058,000**	
CONTINGENGY (20%)					**$ 2,116,000**	
INVENTORY ADJUSTMENT					**$ 1,652,000**	**$ (165,000)**
TOTAL PROJECT COST (CREDIT)					**$ 15,405,000**	**$ (4,779,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 10,626,000**	

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Table A-43
W.S. Lee CC
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
W.S. Lee CC						
Unit 1						
Auxiliary Boiler	$ 40,000	$ 39,000	$ -	$ -	$ 79,000	$ -
CTGs and HRSGs	$ 2,604,000	$ 2,535,000	$ -	$ -	$ 5,139,000	$ -
Steam Turbine & Building	$ 939,000	$ 914,000	$ -	$ -	$ 1,853,000	$ -
SCR	$ 40,000	$ 39,000	$ -	$ -	$ 79,000	$ -
Cooling Towers & Basin	$ 390,000	$ 380,000	$ -	$ -	$ 770,000	$ -
Stacks	$ 70,000	$ 68,000	$ -	$ -	$ 138,000	$ -
Cooling Water Intakes and Circulating Water Pumps	$ 22,000	$ 21,000	$ -	$ -	$ 43,000	$ -
GSU & Foundation	$ 134,000	$ 130,000	$ -	$ -	$ 264,000	$ -
On-site Concrete Crushing & Disposal	$ -	$ -	$ 123,000	$ -	$ 123,000	$ -
Debris	$ -	$ -	$ 32,000	$ -	$ 32,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (8,146,000)
Subtotal	**$ 4,239,000**	**$ 4,126,000**	**$ 155,000**	**$ -**	**$ 8,520,000**	**$ (8,146,000)**
Common						
Cooling Water Intakes and Circulating Water Pumps	$ 56,000	$ 54,000	$ -	$ 139,000	$ 249,000	$ -
BOP Misc.	$ 15,000	$ 15,000	$ -	$ -	$ 30,000	$ -
Roads	$ 53,000	$ 51,000	$ -	$ -	$ 104,000	$ -
All BOP Buildings	$ 145,000	$ 141,000	$ -	$ -	$ 286,000	$ -
Fuel Equipment	$ 5,000	$ 5,000	$ -	$ -	$ 10,000	$ -
All Other Tanks	$ 73,000	$ 71,000	$ -	$ -	$ 144,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 23,000	$ 23,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 72,000	$ 72,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 42,000	$ 42,000	$ -
Concrete Removal, Crushing, & Disposal	$ -	$ -	$ 13,000	$ -	$ 13,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 1,073,000	$ 1,073,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (282,000)
Subtotal	**$ 347,000**	**$ 337,000**	**$ 13,000**	**$ 1,349,000**	**$ 2,046,000**	**$ (282,000)**
W.S. Lee CC Subtotal	**$ 4,586,000**	**$ 4,463,000**	**$ 168,000**	**$ 1,349,000**	**$ 10,566,000**	**$ (8,428,000)**
TOTAL DECOM COST (CREDIT)					**$ 10,566,000**	**$ (8,428,000)**
PROJECT INDIRECTS (10%)					**$ 1,057,000**	
CONTINGENGY (20%)					**$ 2,113,000**	
INVENTORY ADJUSTMENT					**$ 4,411,000**	**$ (441,000)**
TOTAL PROJECT COST (CREDIT)					**$ 18,147,000**	**$ (8,869,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 9,278,000**	

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Table A-44
Wylie
Decommissioning Cost Summary

	Labor	Material and Equipment	Disposal	Environmental	Total Cost	Scrap Value
Wylie						
Hydro Station						
Hydroelectric Equipment & Facilities	$ 917,000	$ 811,000	$ -	$ -	$ 1,728,000	$ -
BOP Buildings	$ 7,000	$ 8,000	$ -	$ -	$ 15,000	$ -
Roads	$ 27,000	$ 32,000	$ -	$ -	$ 59,000	$ -
Debris	$ -	$ -	$ 7,000	$ -	$ 7,000	$ -
On Site Crushing	$ -	$ -	$ 1,000	$ -	$ 1,000	$ -
Grading & Seeding	$ -	$ -	$ -	$ 87,000	$ 87,000	$ -
Scrap	$ -	$ -	$ -	$ -	$ -	$ (1,405,000)
Subtotal	**$ 951,000**	**$ 851,000**	**$ 8,000**	**$ 87,000**	**$ 1,897,000**	**$ (1,405,000)**
Facilities Environmental						
Asbestos Removal	$ -	$ -	$ -	$ 403,000	$ 403,000	$ -
Mercury & Universal Waste Disposal	$ -	$ -	$ -	$ 13,000	$ 13,000	$ -
Transformer Oil Disposal	$ -	$ -	$ -	$ 7,000	$ 7,000	$ -
Transformer Pad and Soil Removal	$ -	$ -	$ -	$ 6,000	$ 6,000	$ -
Subtotal	**$ -**	**$ -**	**$ -**	**$ 429,000**	**$ 429,000**	**$ -**
Wylie Subtotal	**$ 951,000**	**$ 851,000**	**$ 8,000**	**$ 516,000**	**$ 2,326,000**	**$ (1,405,000)**
TOTAL DECOM COST (CREDIT)					**$ 2,326,000**	**$ (1,405,000)**
PROJECT INDIRECTS (10%)					**$ 233,000**	
CONTINGENGY (20%)					**$ 465,000**	
INVENTORY ADJUSTMENT					**$ 113,000**	**$ (11,000)**
TOTAL PROJECT COST (CREDIT)					**$ 3,137,000**	**$ (1,416,000)**
TOTAL NET PROJECT COST (CREDIT)					**$ 1,721,000**	

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APPENDIX B – PLANT AERIALS

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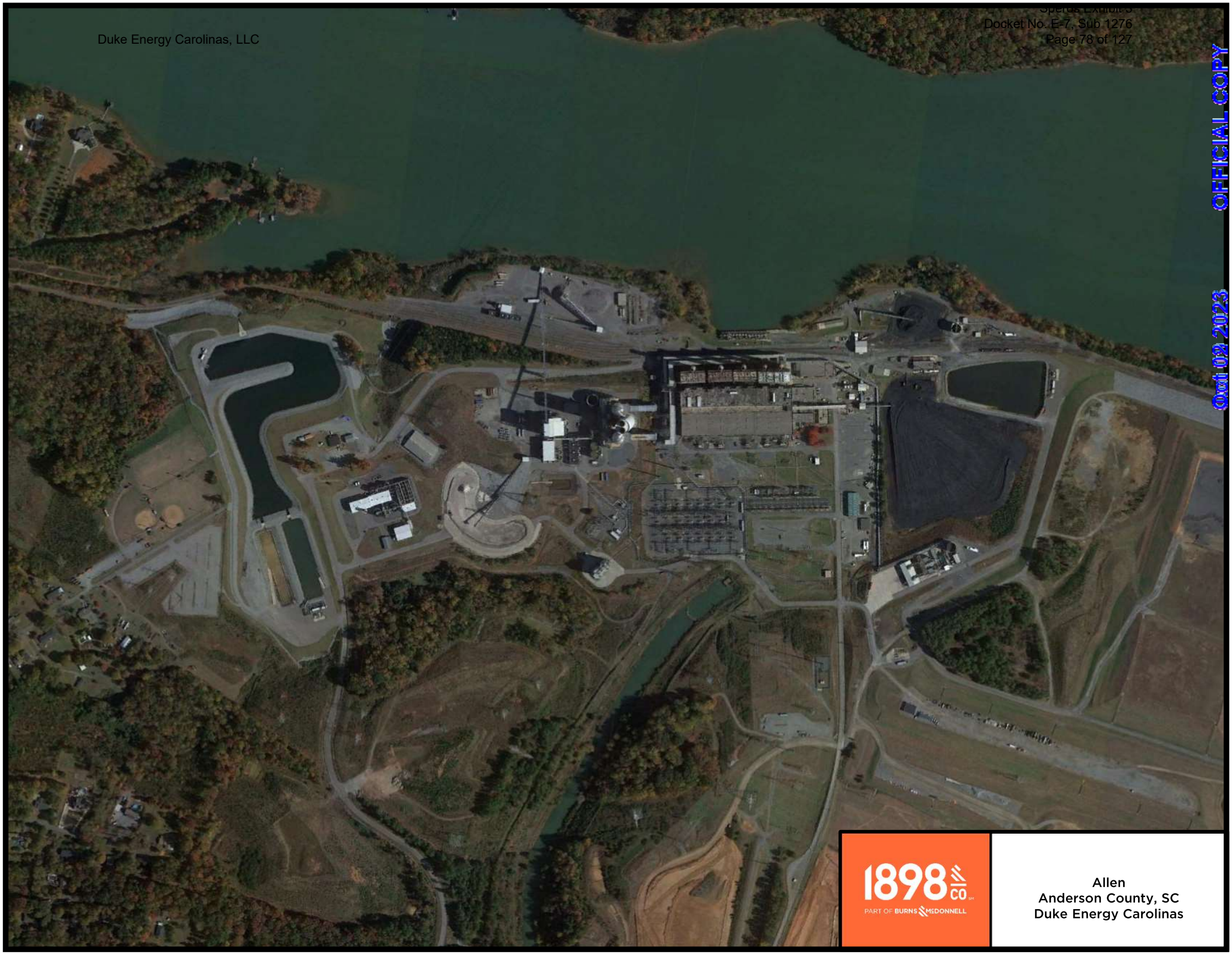
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99 Islands Hydro Station
Blacksburg, SC
Duke Energy Carolinas

Duke Energy Carolinas, LLC

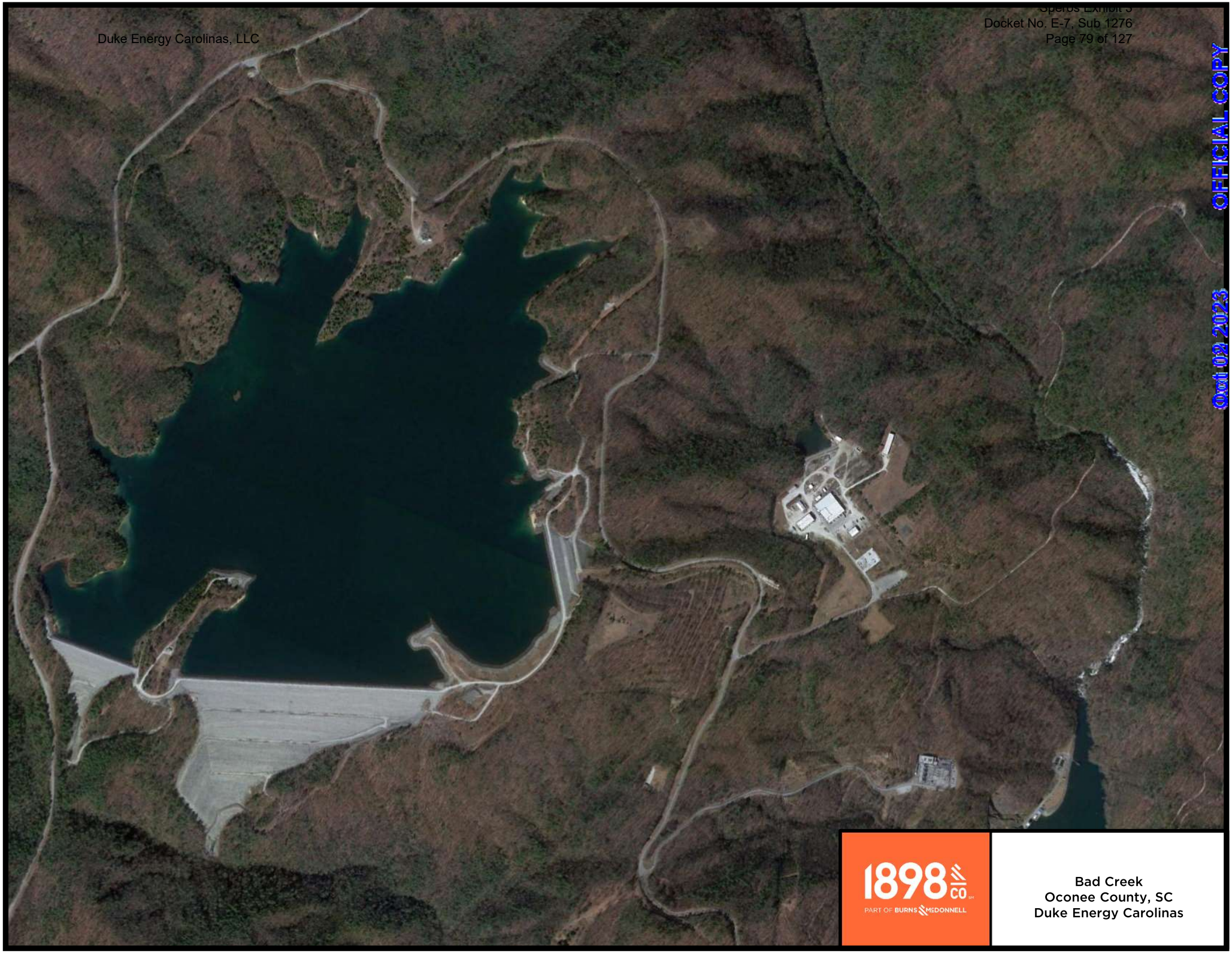
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Allen
Anderson County, SC
Duke Energy Carolinas

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Bad Creek
Oconee County, SC
Duke Energy Carolinas

Duke Energy Carolinas, LLC

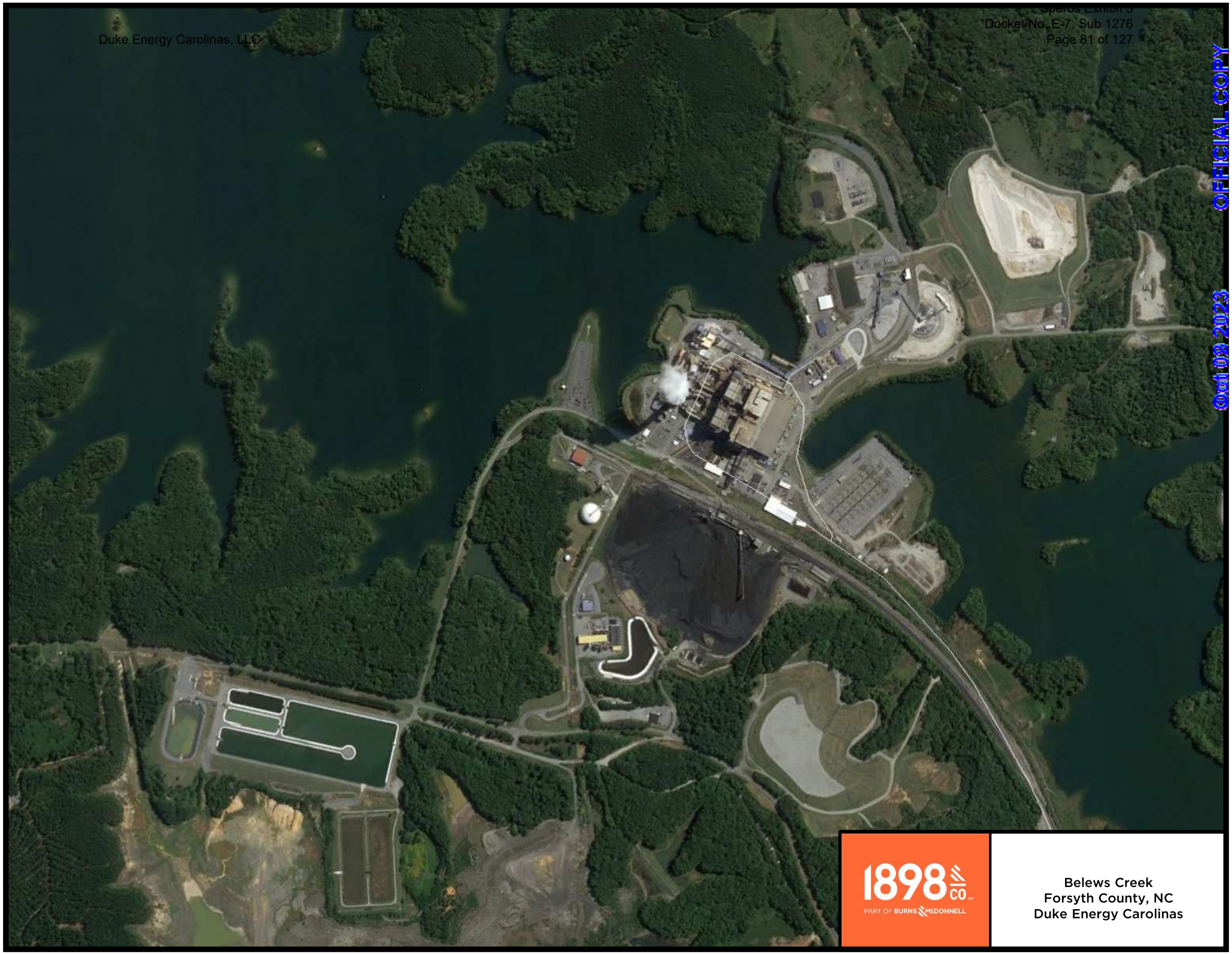
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Bear Creek
Tuckasegee, NC
Duke Energy Carolinas

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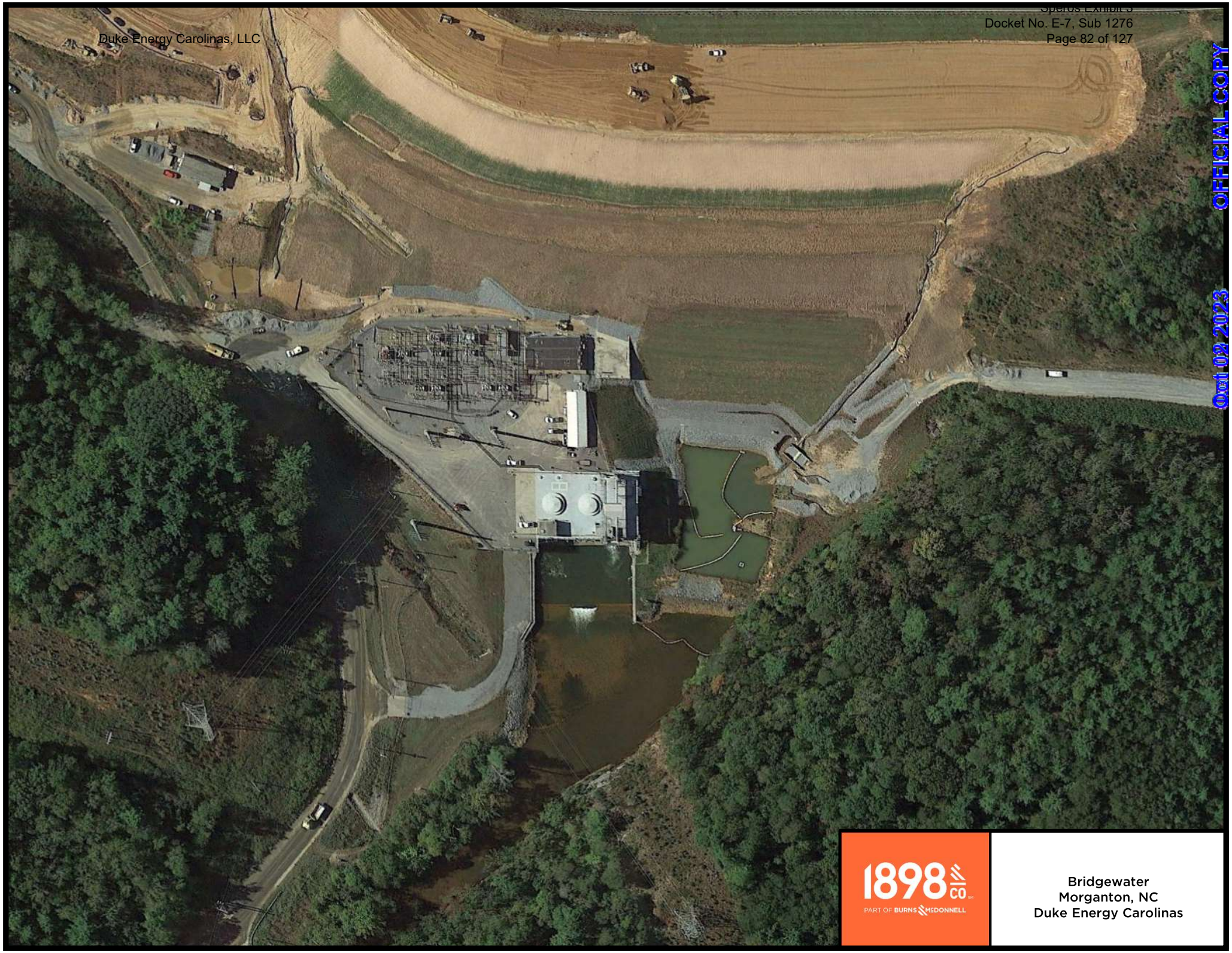


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Belews Creek
Forsyth County, NC
Duke Energy Carolinas

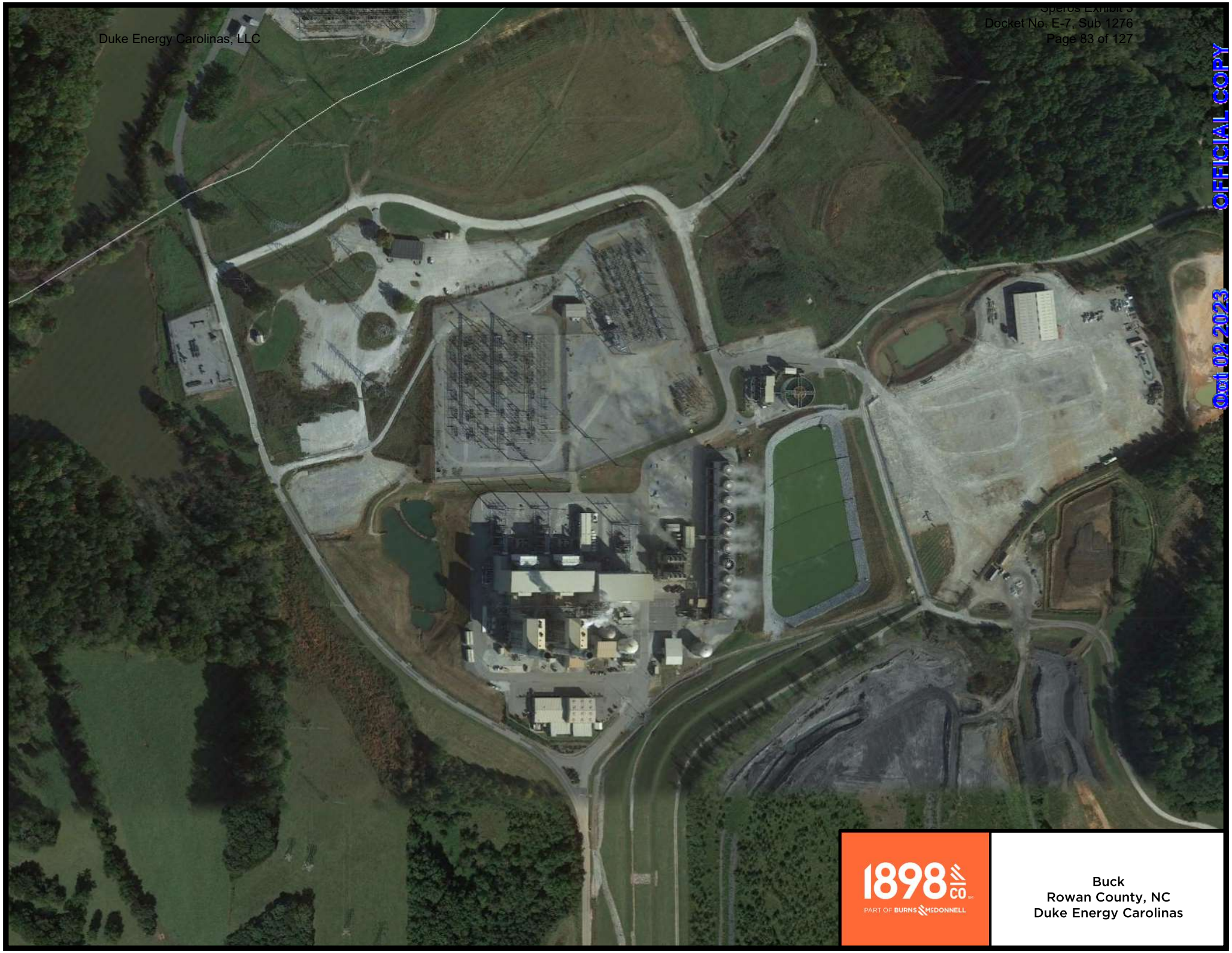
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Bridgewater
Morganton, NC
Duke Energy Carolinas



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Buck
Rowan County, NC
Duke Energy Carolinas

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Cedar Cliff
Tuckasegee, NC
Duke Energy Carolinas

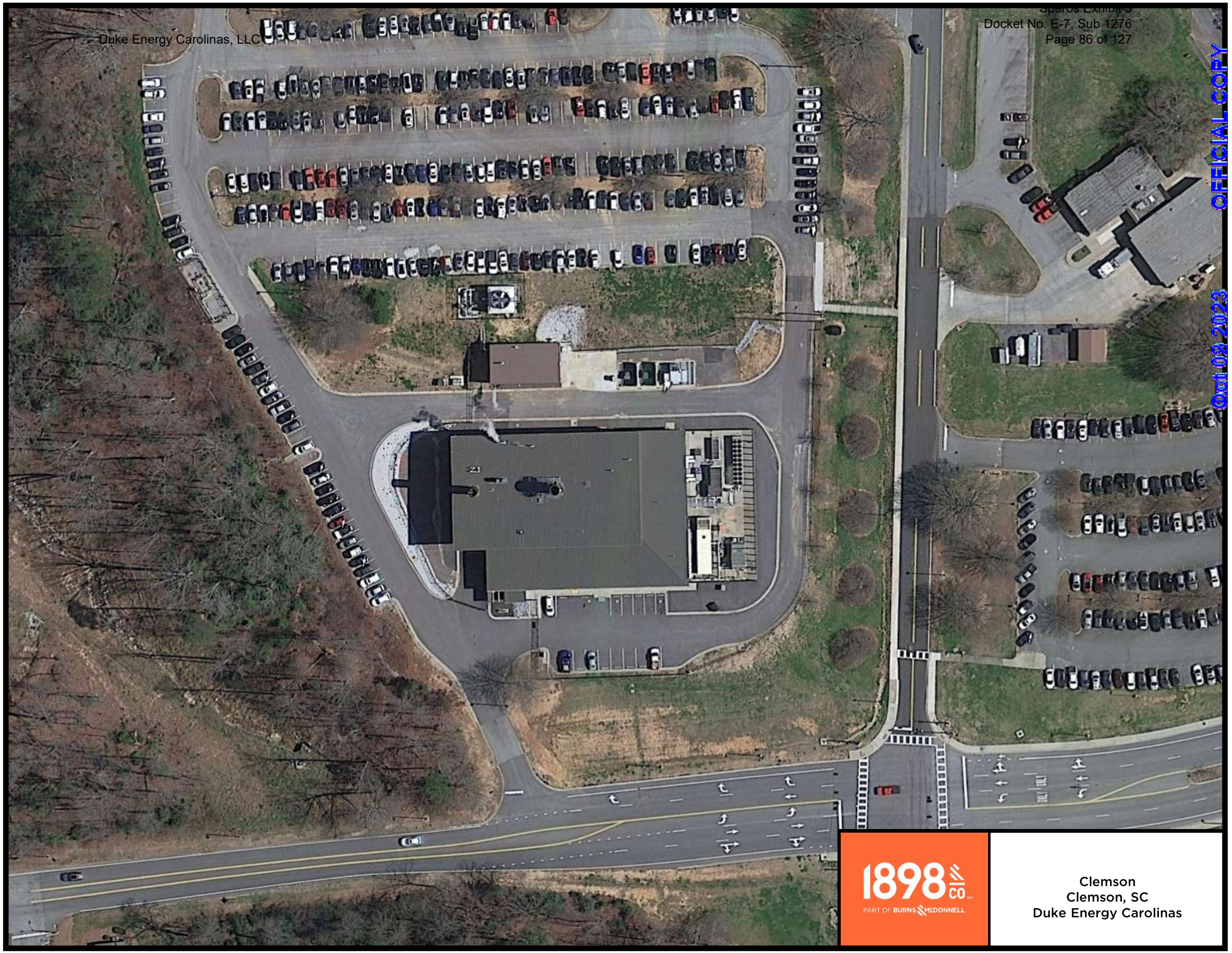
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Cedar Creek
Rocky Creek, SC
Duke Energy Carolinas

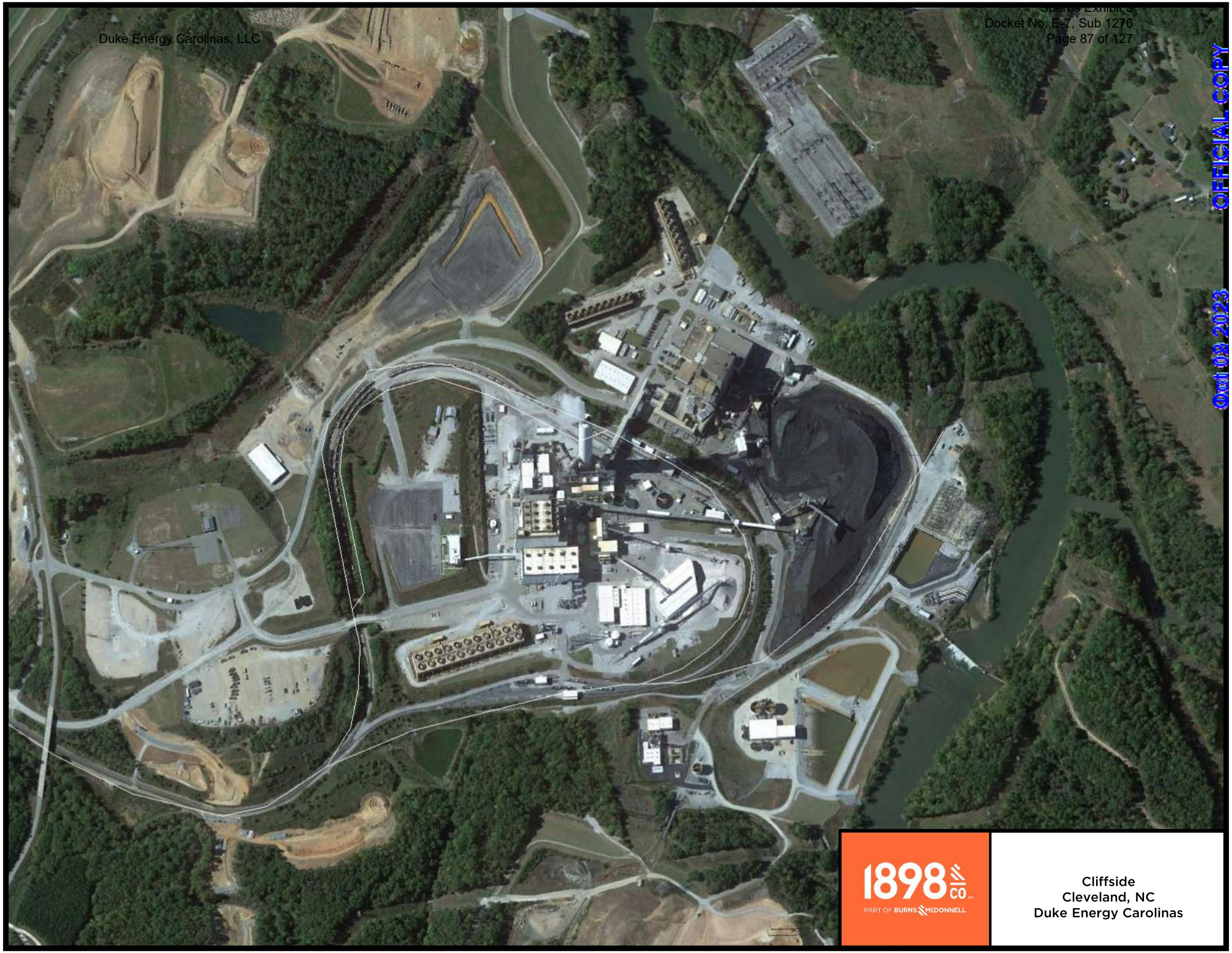
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Clemson
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Cliffside
Cleveland, NC
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Cowans Ford
Mecklenburg County, NC
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Dan River
Rockingham County, NC
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Dearborn
Great Falls, SC
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Fishing Creek
Chester County, SC
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Gaston Solar
Northampton County, NC
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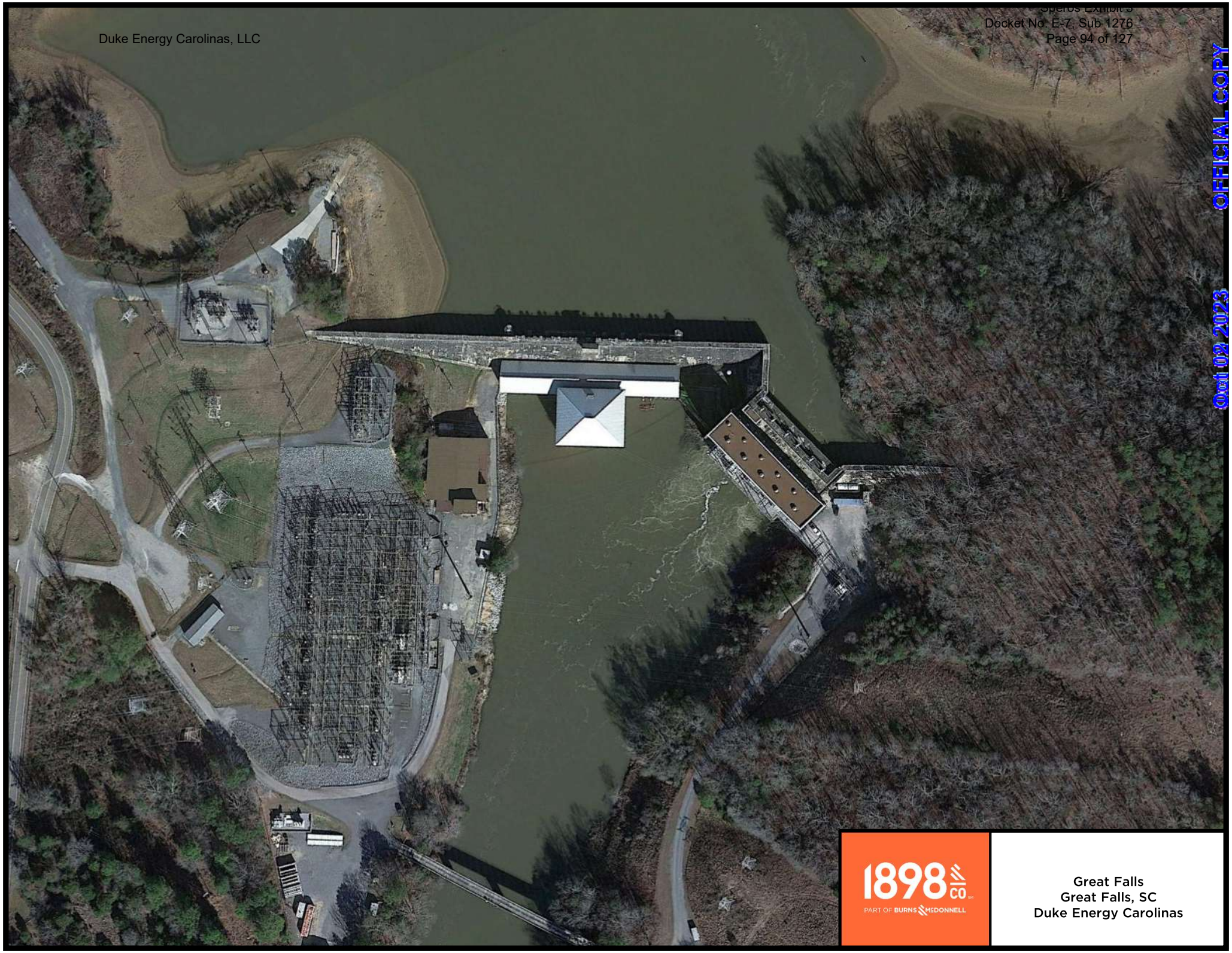


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Gaston Shoals
Blacksburg, SC
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Great Falls
Great Falls, SC
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Jocassee
Pickens County, SC
Duke Energy Carolinas

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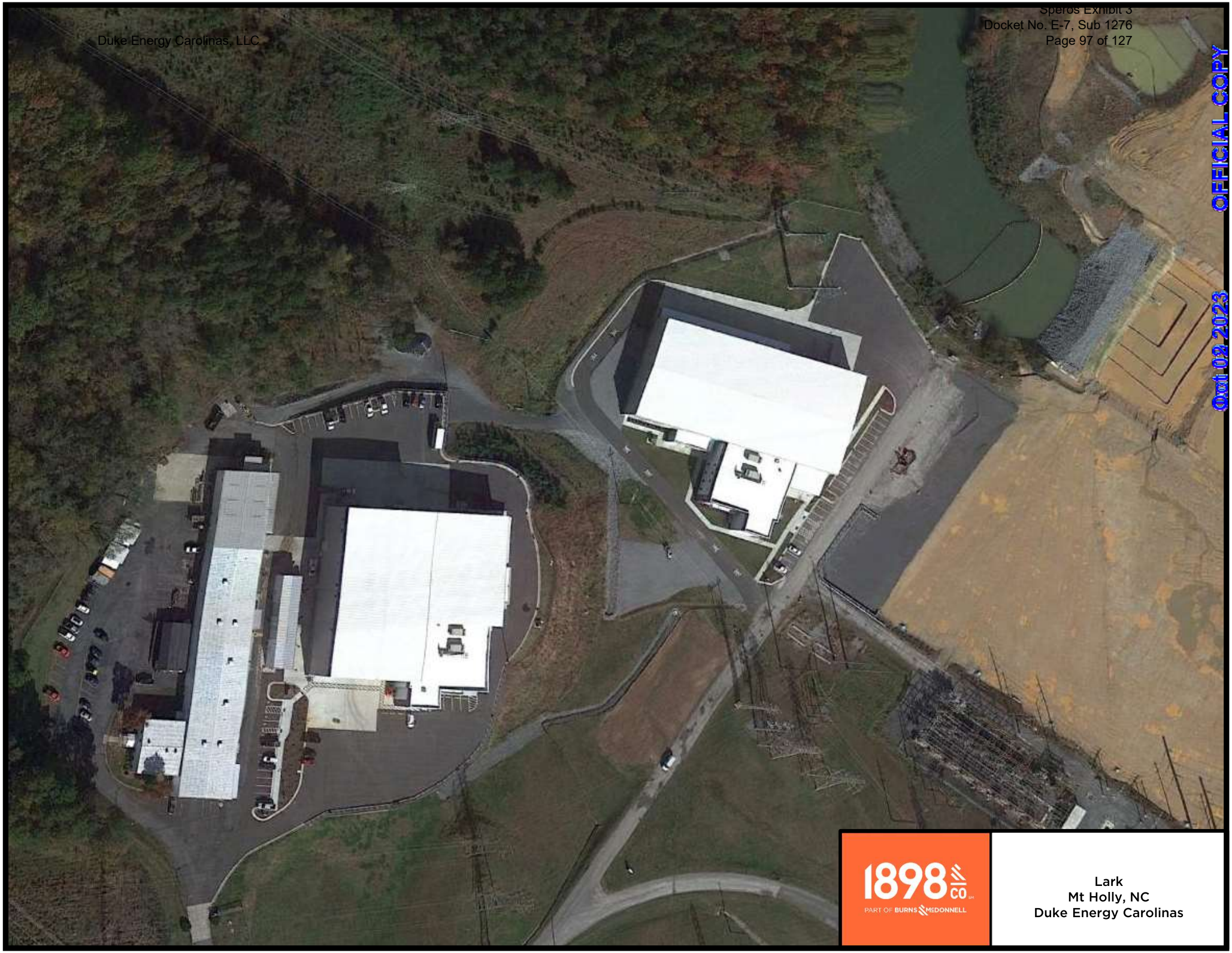
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Keowee
Pickens County, SC
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Mt Holly, NC
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Lincoln
Lincoln County, NC
Duke Energy Carolinas

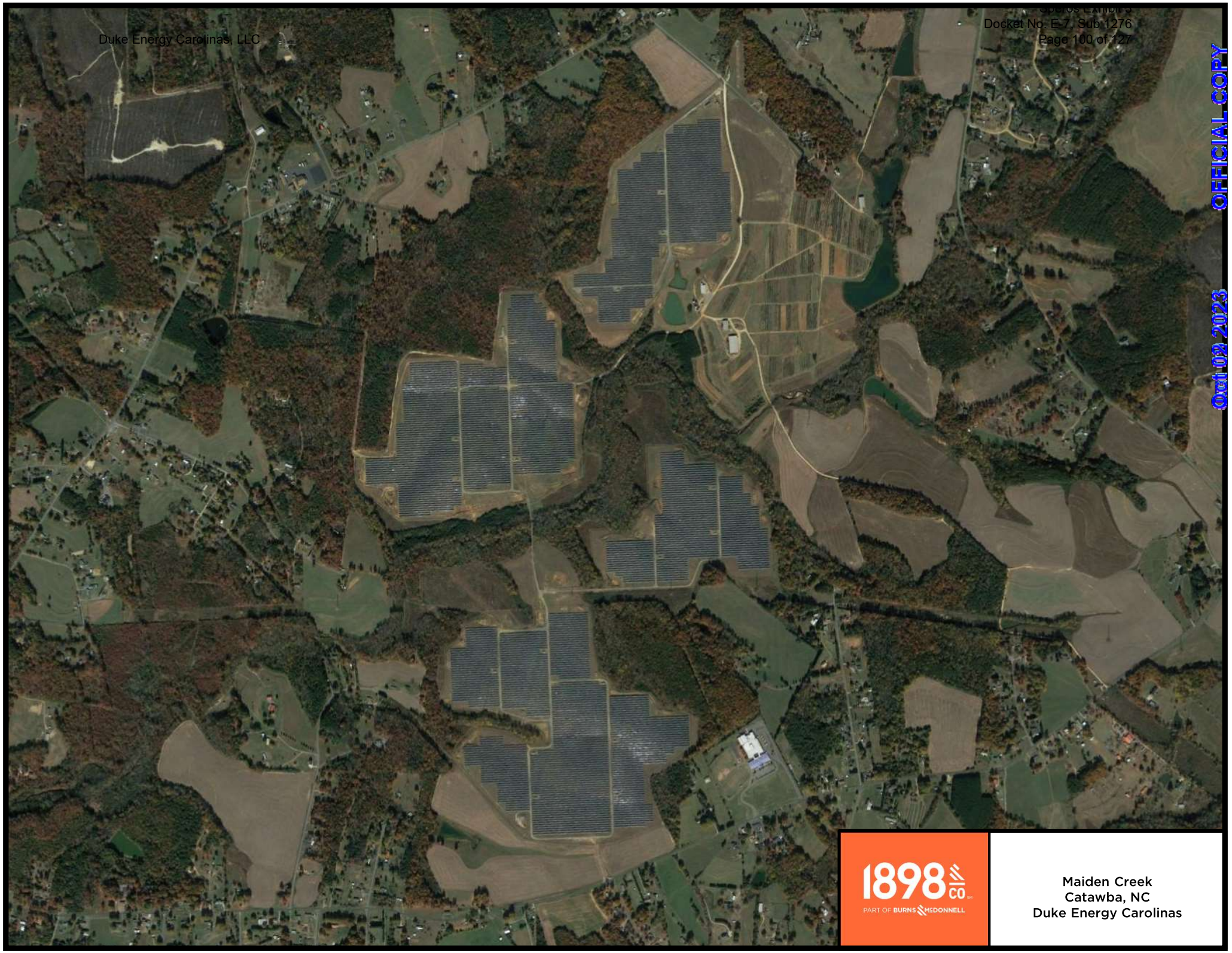
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Lookout Shoals
Pickens County, SC
Duke Energy Carolinas

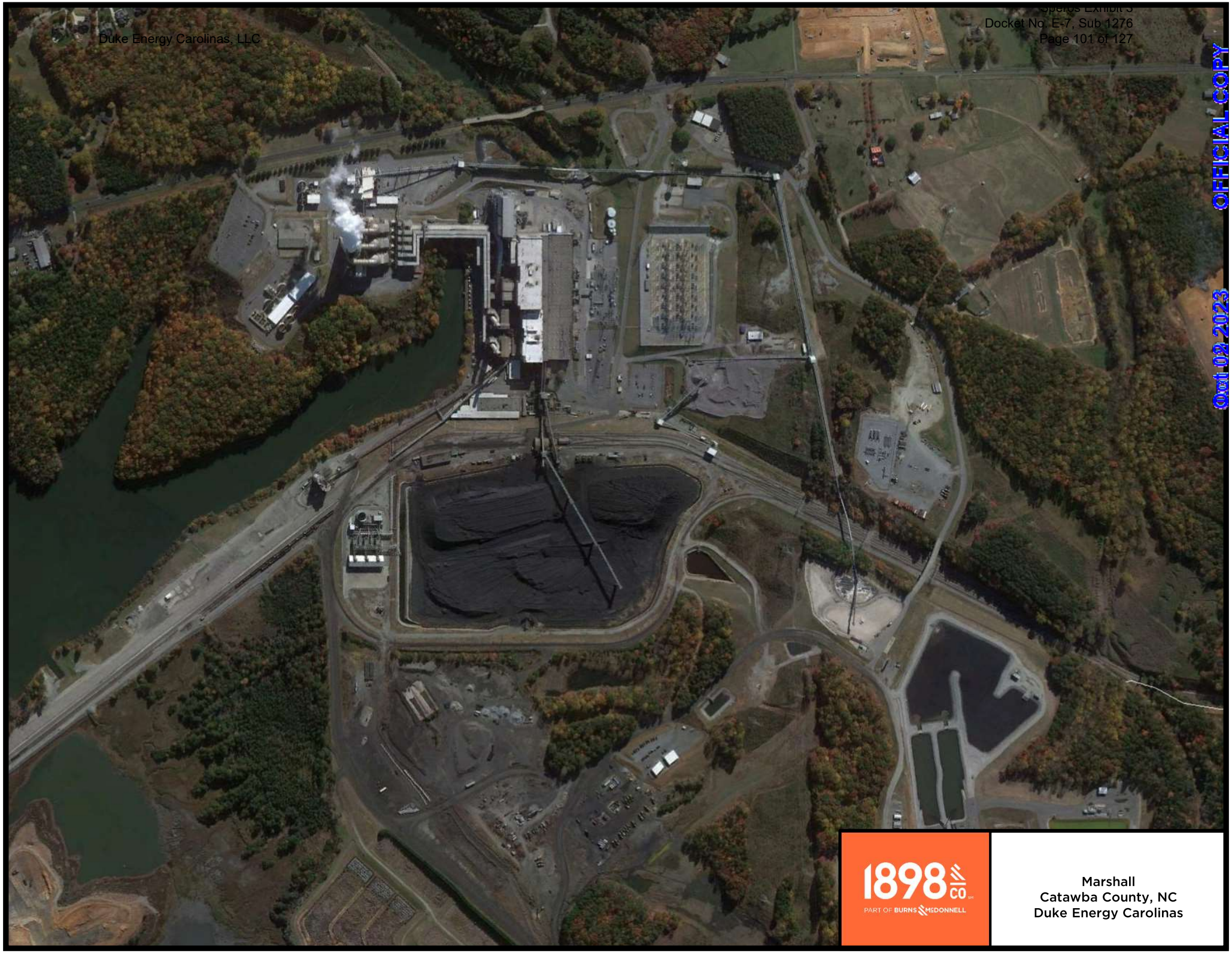
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Maiden Creek
Catawba, NC
Duke Energy Carolinas

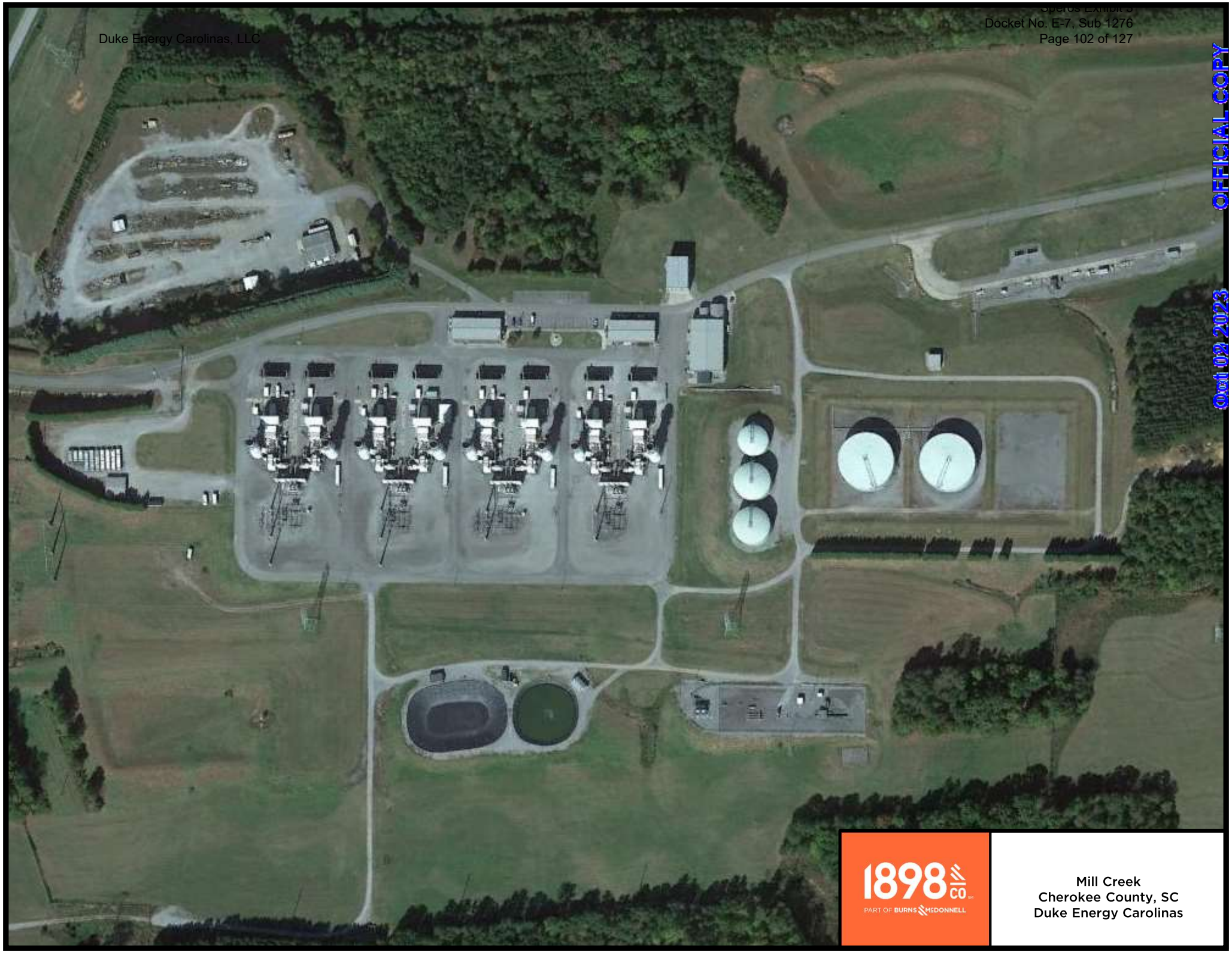
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Marshall
Catawba County, NC
Duke Energy Carolinas

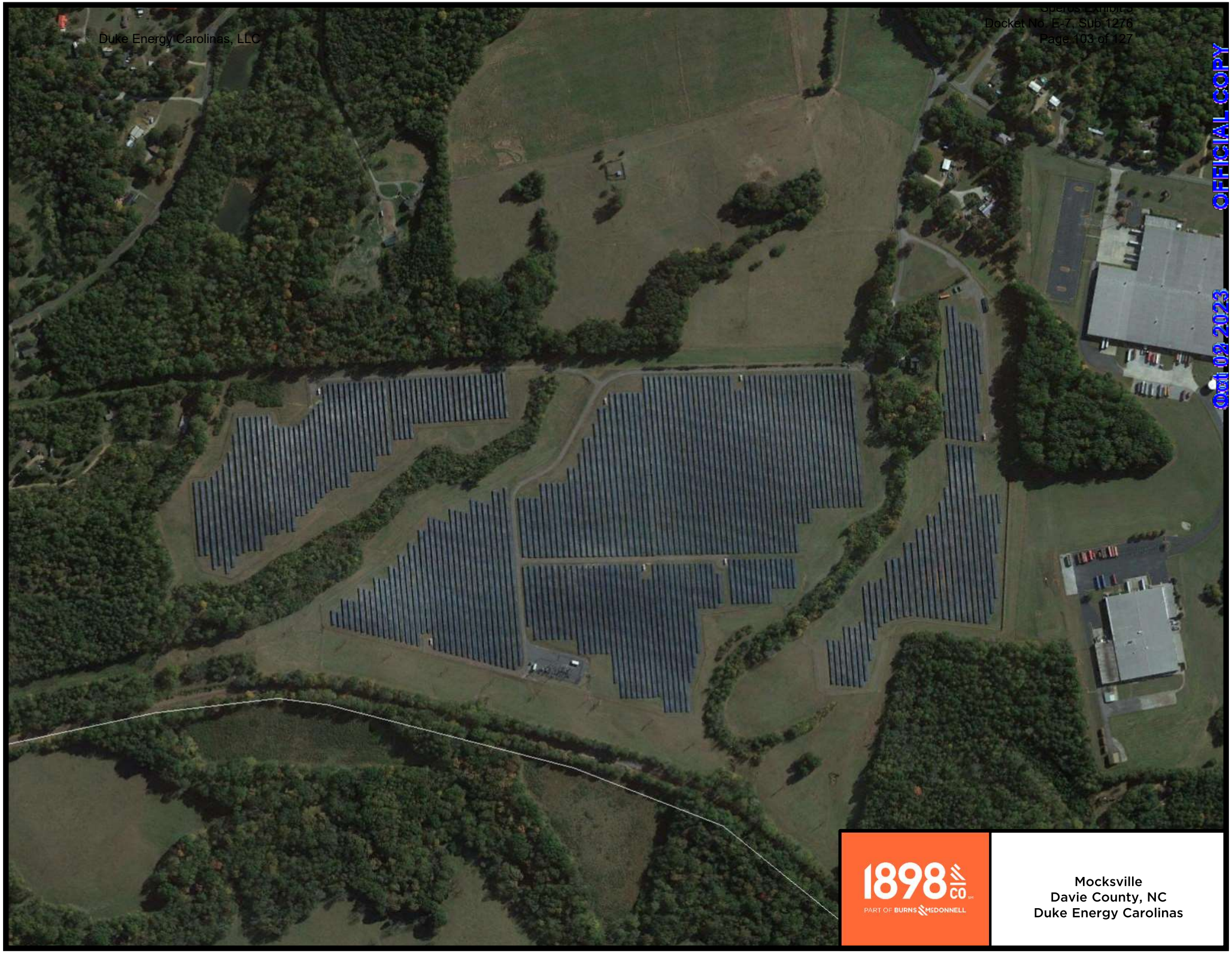
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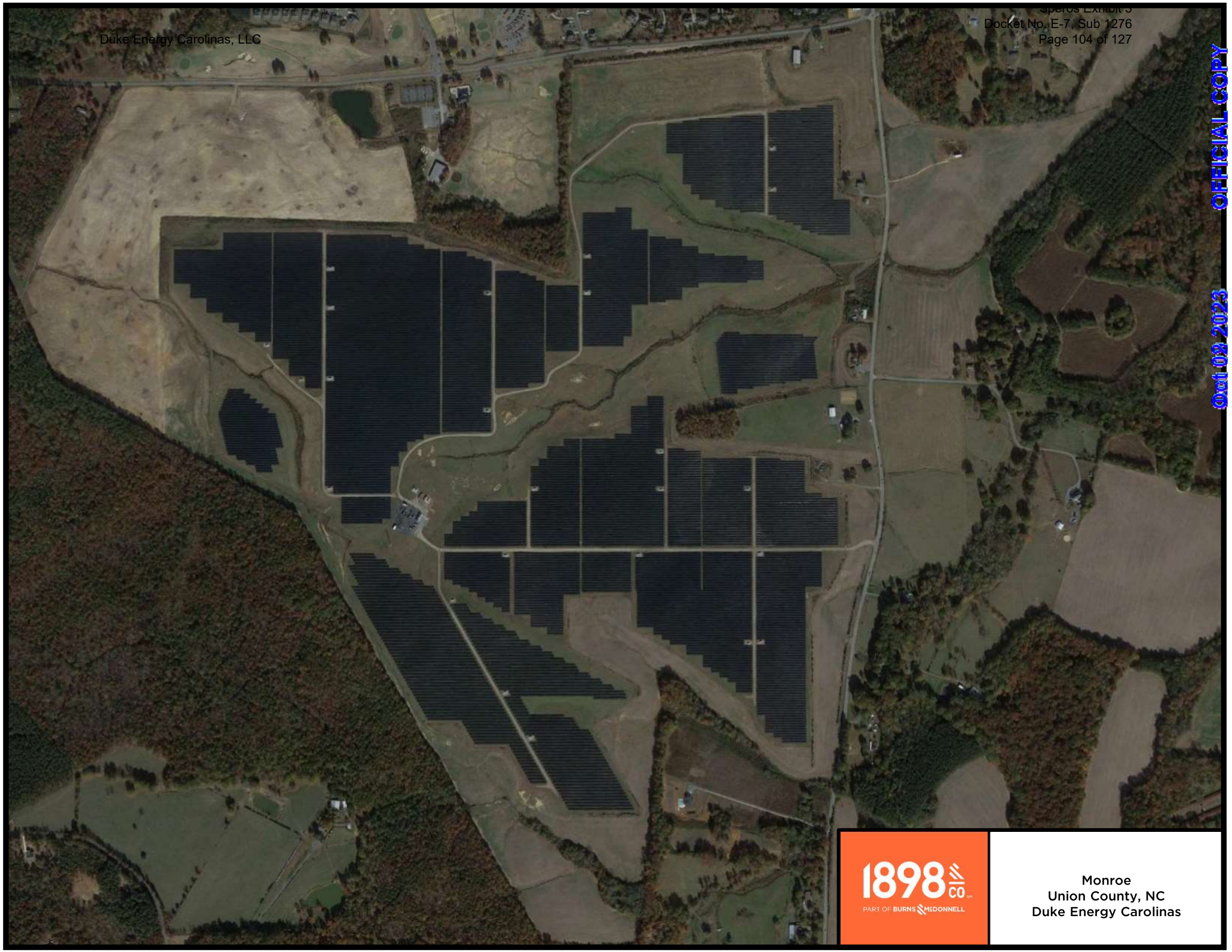
Mill Creek
Cherokee County, SC
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Davie County, NC
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Monroe
Union County, NC
Duke Energy Carolinas

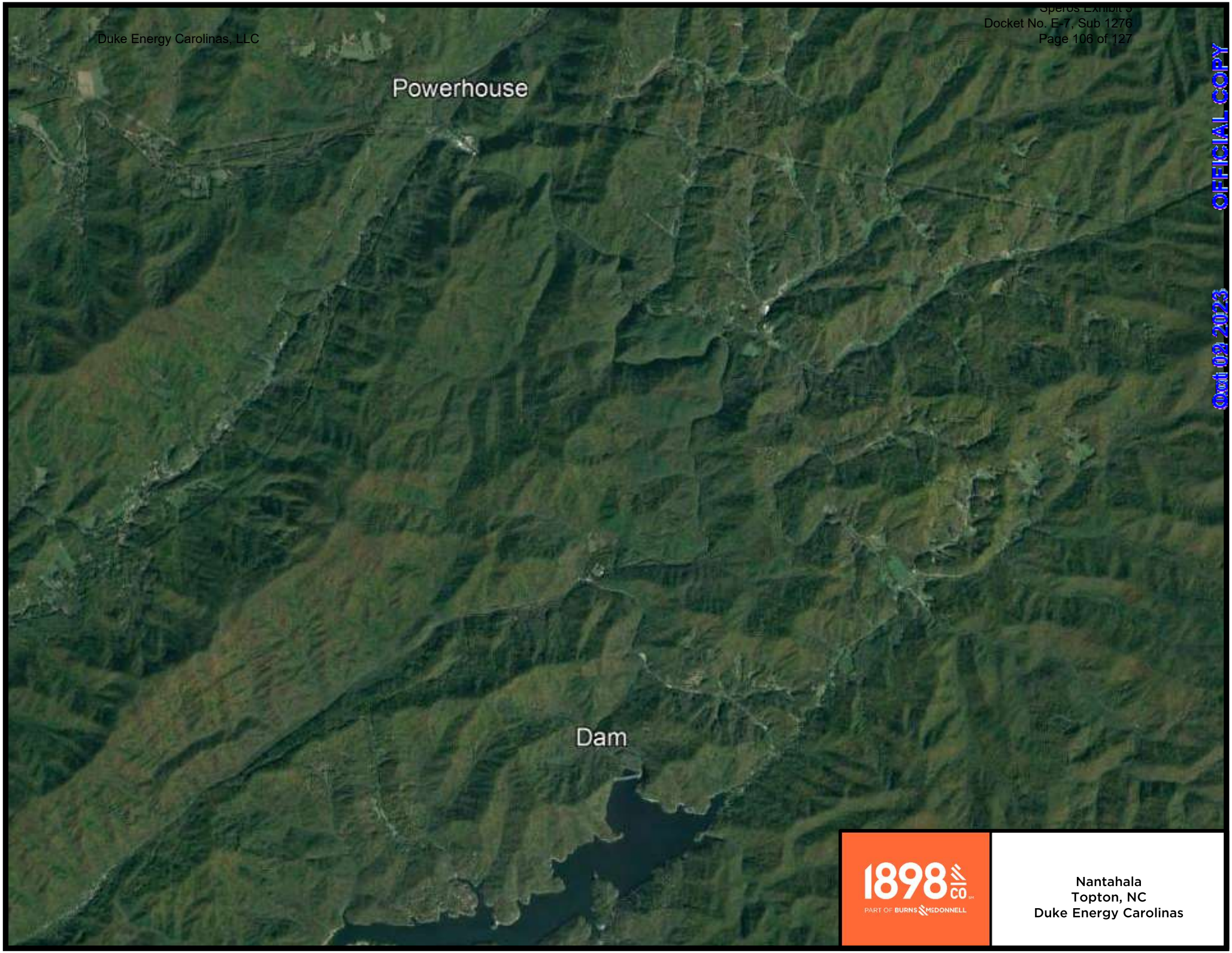
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Mountain Island
Gaston County, NC
Duke Energy Carolinas

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Nantahala
Topton, NC
Duke Energy Carolinas

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Nantahala Dam
Topton, NC
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Nantahala Powerhouse
Topton, NC
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Oxford
Hickory, NC
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Queens Creek
Topton, NC
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Rhodhiss
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Rockingham
Rockingham County, NC
Duke Energy Carolinas

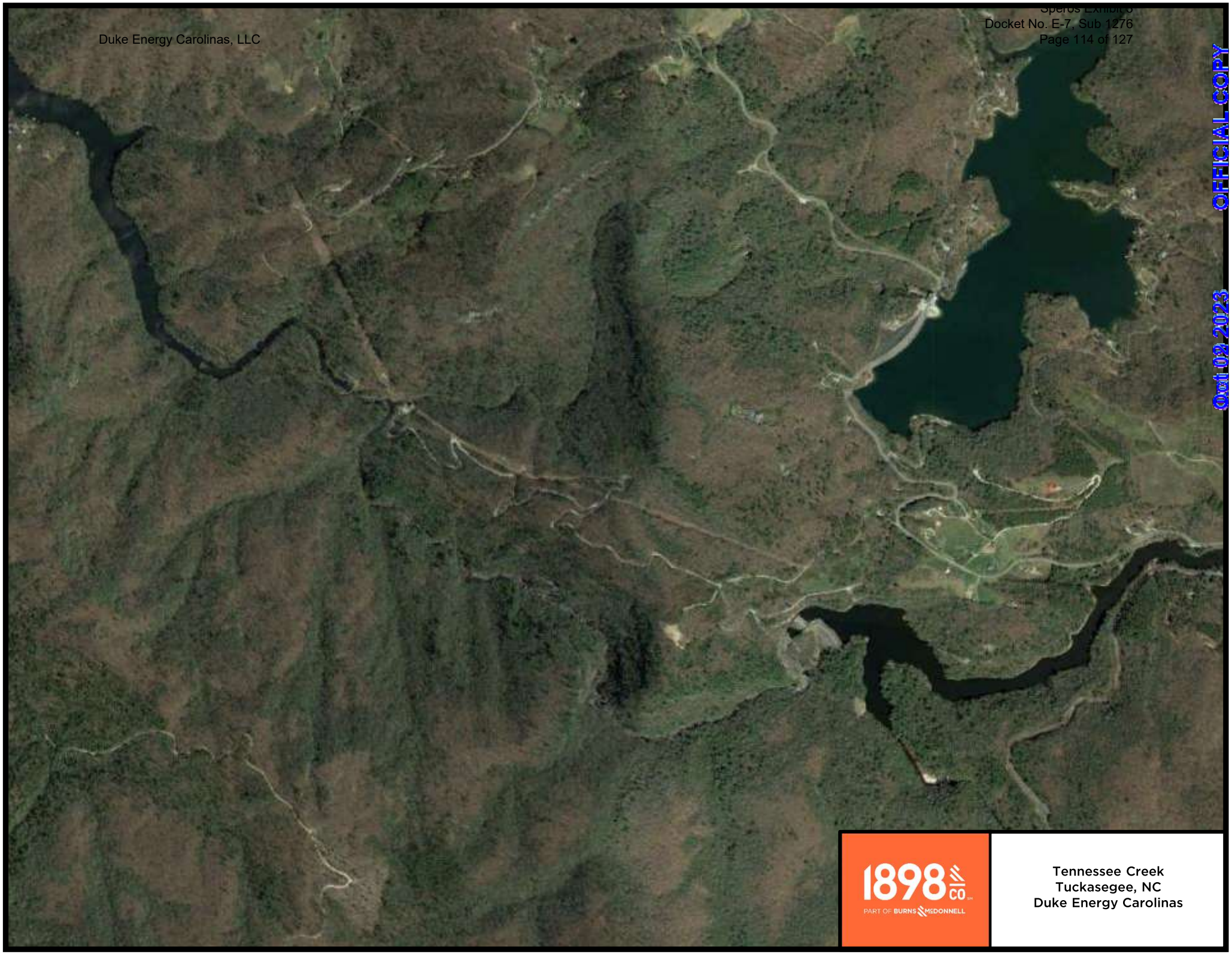
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Rocky Creek
Rock Creek, SC
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Tennessee Creek Dam
Tuckasegee, NC
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Tennessee Creek Powerhouse
Tuckasegee, NC
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Thorpe
Tuckasegee, NC
Duke Energy Carolinas

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Thorpe Dam
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Thorpe Powerhouse
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Tuckasegee
Tuckasegee, NC
Duke Energy Carolinas

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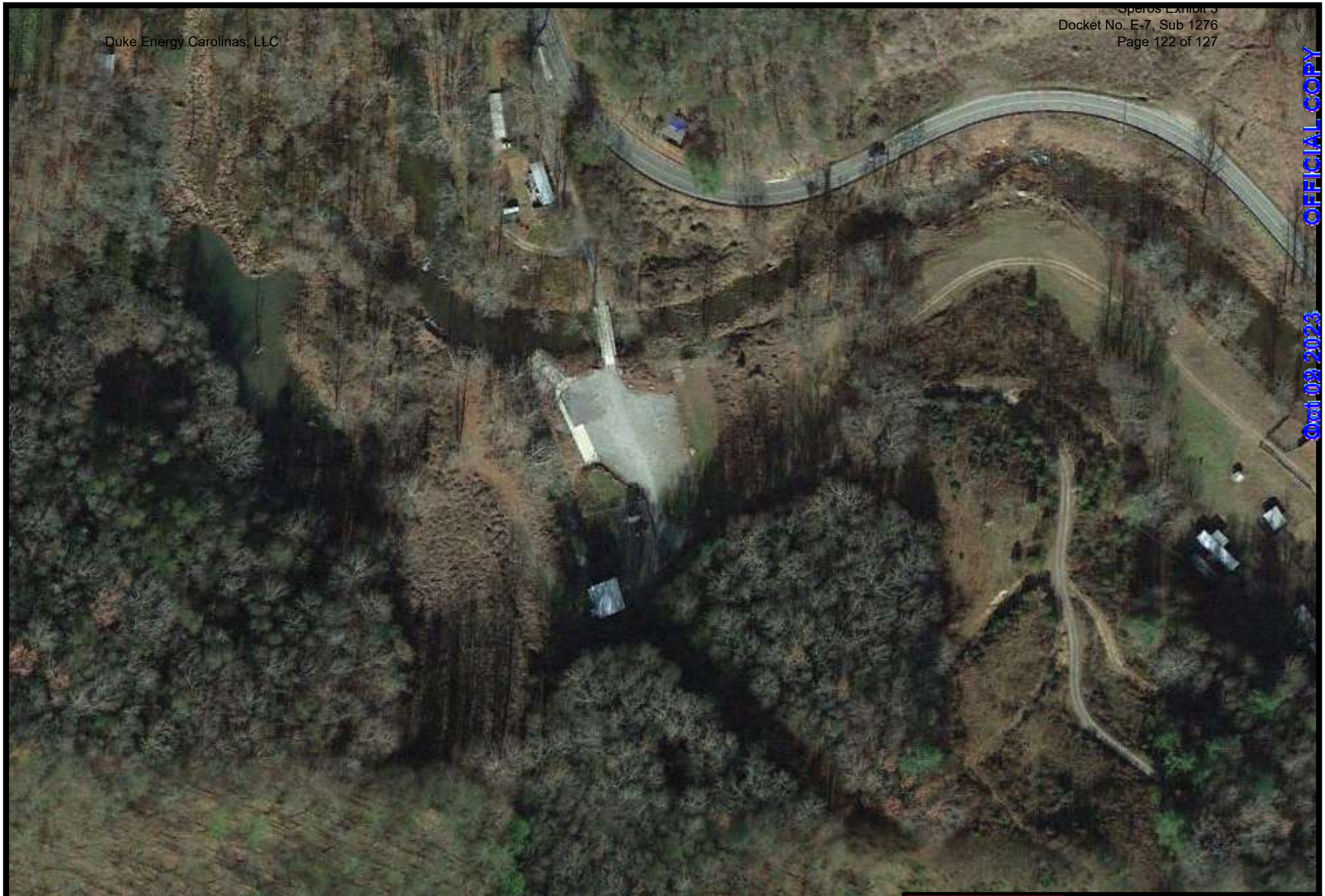


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Tuckasegee Dam
Tuckasegee, NC
Duke Energy Carolinas

Duke Energy Carolinas, LLC

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Tuckasegee Powerhouse
Tuckasegee, NC
Duke Energy Carolinas

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Wateree
Fairfield and Kershaw
Counties, SC
Duke Energy Carolinas

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Woodleaf
Rowan County, NC
Duke Energy Carolinas

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WS Lee
Anderson County, SC
Duke Energy Carolinas

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Wylie
York County, SC
Duke Energy Carolinas

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9400 Ward Parkway

Kansas City, MO

816-605-7800

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Duke Energy Carolinas, LLC
Docket No E-7, Sub 1276
PS DR 227

Summary of JE's associated with College and Church sales

Impairment Analysis - Church

Line No.		Net Book Value	101		108		426		131		186
1	Assets @ June 2021	$72,011,581	$142,324,379			($70,312,798)					
2	impairment-June 2021	($32,741,265)		($32,741,265)			$32,741,265				
3	impairment Dec 2021	$10,671,403	$10,671,403					($10,671,403)			
4	impairment April 2022	($4,055,737)		($4,055,737)			$4,055,737				
5	impairment Dec 2022	($6,438,611)		($6,438,611)			$6,438,611				
6	Proceeds December 2022	($35,000,000)				($35,000,000)			$35,000,000		
7	Cost of Removal (actuals) Dec 2022	$956,480			$956,480					($956,480)	
8	Retirement booked in Jan'23			($142,324,379)	$142,324,379						
9	Retirement of Impairment 5/2023		$32,564,211			($32,564,211)					
10	Net Present Value of Future Revenue 5/2023	($5,403,850)				($5,403,850)					$5,403,850
11		**$0**		**$0**		**($0)**	**$32,564,211**		**$34,043,520**		
12	Sum C16 Less Impairments	$39,447,370									
13	Sum of C25 + C29 + C36	($39,447,370)									
14	Remaining amount in Plant in Service	($0)									

Impairment Analysis 401 College

		Net Book Value	101		108		426		131		186
16											
17	Assets @ June 2021	36,028,705	73,400,682			($37,371,977)					
18	Impairment June 2021	(12,091,498)		($12,091,498)			12,091,498				
19	Impairment Dec 2021	6,349,408	6,349,408					($6,349,408)			
20	Impairment April 2022	(457,444)		($457,444)			457,444				
21	Impairment Dec 2022	(3,521,432)		($3,521,432)			3,521,432				
22	Proceeds Dec 2022	(24,000,000)				($24,000,000)			24,000,000		
23	Retire Structure/land/FFE Jan 23			($73,400,682)	73,400,682						
24	Retire NST210886 Jun 23 impairment	-	9,720,967			($9,720,967)					
59		-	-								
60		-	-								
25	Cost of Removal-Dec 2022	748,226			748,226					($748,226)	
63		-			-					-	
26	Net Present Value of Future Revenue	(3,055,964)				($3,055,964)					3,055,964
67											-
69				**(0)**		**0**	**9,720,967**		**23,251,774**		**3,055,964**
71	Sum of C51 less impairments	$26,307,738									
73	Sum of C58 + C65 + C68	($26,307,738)									
74	Remaining Amount in Plant in Service	$0									

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	Test Year Plant in Service	Plant Category	Date in Service	Depr Rate	System Plant	Total Accum Depr	NC Retail Allocation %	NC Retail Plant	NC Retail Accum Depr	NC Retail Net Plant	Remove Test Year Depreciation Exp. System Depr.	Remove Test Year Depreciation Exp. NC Retail Depr.
Mount Holly Assets - Enterprise Training Organization ("ETO")												
ETOMGRKN	Mount Holly microgrid Control Sys	General Plant	9/1/2020	10 00%	(781,736)	232,421	68.16%	(532,851)	158,424	(374,426)	(78,174)	(53,285)
ETOMSVC2	Open Field Message Bus (OpenFMB)	Intangible Plant	8/1/2020	20 00%	(665,796)	399,477	69 51%	(462,811)	277,686	(185,124)	(133,159)	(92,562)
ETOMSVCS	(OpenFMB) Micro Services Development	Intangible Plant	9/1/2020	20 00%	(449,277)	269,566	69 51%	(312,303)	187,382	(124,921)	(89,855)	(62,461)
ETOMTHMG		Intangible Plant	9/1/2020	20 00%	(617,811)	422,171	69 51%	(429,455)	293,461	(135,994)	(123,562)	(85,891)
ETOPKI	Mount Holly Project	Intangible Plant	4/1/2022	20 00%	(648,099)	162,025	69 51%	(450,509)	112,627	(337,882)	0	0
ETOPRTL	Mount Holly Simulation & Testing 2021	Intangible Plant	10/1/2021	20 00%	(330,240)	121,088	69 51%	(229,558)	84,171	(145,386)	(16,512)	(11,477 88)
ETORANK	Feeder Operational Control Sys	Intangible Plant	10/1/2021	20 00%	(514,814)	188,765	69 51%	(357,860)	131,215	(226,644)	(25,741)	(17,892 99)
ETOSIM	Mount Holly Simulation & Testing 2020	Intangible Plant	10/1/2020	12 50%	(248,011)	74,206	69 51%	(172,399)	51,582	(120,816)	(31,001)	(21,550)
ETOVIZOP		Intangible Plant	7/1/2021	20 00%	(641,093)	256,437	69 51%	(445,639)	178,256	(267,383)	(64,109)	(44,564)
		Total			**$ (4,896,876)**	**$ 2,126,156**		**$ (3,393,383)**	**$ 1,474,805**	**$ (1,918,578)**	**$ (562,114)**	**$ (389,683)**

Change in Rate Base	(1,918,578)
Change in Operating Income	298 691
Change in Revenue Requirement	**(572,930)**

Inputs - Per Company's 3rd Supplemental Filing	
Tax Rate	23.3503%
Rate Base Revenue Req. Factor	9.4030400%
Retention Factor	0.7609487

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Mount Holly Assets - Total

Month	06/2023

Category	"Utility AccountUtility Account"	Sum of Book Cost
Building	39000 - Structures and Improvements	11,203,059.83
	39100 - Office Furniture and Equipm	198,391.93
	39700 - Communication Equipment	78,396.84
	39800 - Miscellaneous Equipment	29,349.75
Building Total		**11,509,198.35**
ETO	30300 - Miscellaneous Intangible Pl	3,867,128.70
	39101 - Electronic Data Processing	248,011.15
	39700 - Communication Equipment	781,735.70
ETO Total		**4,896,875.55**
Meter Farm	36100 - Structures and Improvements	1,613,569.76
Meter Farm Total		**1,613,569.76**
Grand Total		**18,019,643.66**

Mount Holly Assets - Building

Month	06/2023
Category	Building

"Cpr LedgerLdg Work Order Number"	"Work Order ControlLdg Work Order Description"	Vintage	Sum of Book Cost	
019310119		1986	400.00	
019310628		1986	234,703.62	
019310848		1986	478,094.42	
200816C	Mt Holly Diaster Recovery Site	2006	29,561.05	
336593ARC	Install 14 Routers & 17 Switches fo	2018	1,694.04	
71007646C		1991	3,976.00	
73203323C		1995	37,192.46	
9900067C	MT HOLLY TRAINING CNTR 0963	1999	41,434.00	
9900068C	MT HOLLY TRAINING CNTR 0965	1999	47,926.00	
9900070C	MT HOLLY TRAINING CNTR 0967	1999	34,246.00	
AD00465C	Mt Holly HVAC Admin Bldg	2008	54,309.87	
CONVERSION		1996	131,402.99	
ETMTHLY4C	Install natural gas generator	2019	2,771,858.61	
FIREEXT	Bullseye Digital Fire Extinguisher	2018	10,689.36	
MTHOLBLKT	Mt Holly Training Ctr Tel Blkt	2022	30,593.80	
NCADTRAN	NC Adtran MW EOL Replacements	2013	46,109.00	
NCP110115	Install BAS @ Mt Holly Training Ctr	2011	61,276.96	
NCP150018	Mt Holly Training-Ops & Envision	2015	1,003,031.46	
NCPM10026	MT HOLLY TRAINING CENTER	2010	94,049.42	
NCW160023	New Drainage System	2017	180,010.36	
NCW160188	Mt Holly ETO Sidewalk	2016	11,385.32	
NCW190065	Backflow Preventor Replacement	1986	(1,996.93)	
NCW190077	Sit-Stand Workstation	2019	2,874.57	
NCW200339	Mt holly Ice Condition Training Bld	2020	3,626.09	
NCW200362	Mt. Holly Admin Bldg. Gate And Oper	2020	24,081.88	
NCW200549	HVAC Replacement	2021	10,568.59	
NCW210672	Comp Light Sys Repl	2021	12,617.84	
NCW221213	Mt Holly Training Node Replacement	2022	4,157.84	
NCW221255	Interior Lighting Replacement	2022	7,374.05	
NCW221680	Mt Holly Training Gate Security Ha	2022	2,133.96	
NCW312121	Mt Holly shop awning	2017	860.84	
NCW389777	Replacement of Exhaust Fan	2018	6,290.00	
NCW455061	New Bay Heaters Installation	2018	49,519.46	
NCW477346	Complete HVAC Replacement	2018	13,040.08	
NCW477528	Sewer Pump System Replacement	2018	18,106.78	
NMW190124	Envision Center Containers	2019	16,526.43	
NST190107	Mt Holly Traning Facility Renovatio	2020	3,616,183.89	o General Plant - Disallowance Identified $3.516M
NST190637	Mt Holly ETO Renovation	2020	1,514,366.87	o General plant
NWP140239	Renovations @ Mt Holly Train Ctr	2014	662,118.20	
NWP140272	Repl HVAC Units @ Mt Holly Trn Ctr	2014	147,065.07	
NWP140273	Repl Main Gate @ Mt Holly Train Ctr	2014	61,176.42	
SA0006C		1998	25,686.00	
SABLKT	Carpeting	1990	645.00	
	Modular Sign	1989	3,360.00	
SCW440429	Exterior Sign Replacement	2018	4,870.68	
Grand Total			**11,509,198.35**	□

Mount Holly Assets - Enterprise Training Organization ("ETO")

Month	06/2023
Category	ETO

"Cpr LedgerLdg Work Order Number"	"Work Order ControlLdg Work Order Description"	Vintage	Sum of Book Cost	
ETOMGRKN	Mount Holly microgrid control sys	2019	781,735.70	o General Plant
ETOMSVC2	Open Field Message Bus (OpenFMB)	2020	665,795.66	o Intangible Plant
ETOMSVCS	(OpenFMB) Microservices Development	2020	449,276.93	o Intangible Plant
ETOMTHMG	Microgrid Control System	2020	617,810.62	
ETOPKI	Mt. Holly Simulation & Testing	2022	648,098.57	o Intangible Plant
ETOPRTL	MT Holly Simulation an Testing	2021	330,239.71	o Intangible Plant
ETORANK	Feeder Operational Controls	2021	514,814.20	o Intangible Plant
ETOSIM	Mount Holly Simulation and Testing	2020	248,011.15	o Intangible Plant
ETOVIZOP	Visualization Toolset	2021	641,093.01	
Grand Total			**4,896,875.55**	□

Mount Holly Assets - Meter Farm

Month	06/2023
Category	Meter Farm

"Cpr LedgerLdg Work Order Number"	"Work Order ControlLdg Work Order Description"	Vintage	Sum of Book Cost	
SG720EQUP	SG DEC Meter Farm - 720	2019	1,167,562.72	
SG720RLES	SG DEC Meter Farm - 720	2019	446,007.04	
Grand Total			**1,613,569.76**	□

o Amounts identified by Witness Metz — Σ o **8,768,522.68**

□ Sub-totals from pivot tables above — Σ □ **18,019,643.66**

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2022 Surveys

SURVEY CODE	SURVEY NAME
AON-EMT22	Aon Energy Marketing and Trading
AON-IEHRA22	Aon IEHRA Energy Industry
EMPS-WORKS22	Empsight The Works
FOU-ENV22	Foushee Environmental, Health & Safety
FOU-SEC22	Foushee Security & Compliance
GBS-AVI22	Gallagher Aviation
MER-HRM22	Mercer Benchmark Corporate Services and Human Resources
MER-ENG22	Mercer Benchmark Engineering & Design
MER-EXE22	Mercer Benchmark Executive
MER-FAL22	Mercer Benchmark Finance, Accounting & Legal
MER-ITS22	Mercer Benchmark Information Technology
MER-LSC22	Mercer Benchmark Logistics & Supply Chain
MER-SMC22	Mercer Benchmark Sales, Mktg & Comm
MER-CON22	Mercer Contact Center & Customer Service
PM-CYB22	Pearl Meyer Cyber Security, AI, Data Science – All Firms Only
RAD-GCD-JUL- DUKE22	Radford Global Compensation Database - July (Duke Energy)
TW-EMT22	WTW Energy Marketing and Trading
TW-EXE-ES-DUKE22	WTW Energy Services Executive (Duke Energy)
TW-MMPS-ES-DUKE22	WTW Energy Services Mid-Mgmt & Prof (Duke Energy)
TW-EXE-DUKE22	WTW General Industry Executive (Duke Energy)
TW-MMPS-DUKE22	WTW General Industry Mid-Mgmt, Prof & Support (Duke Energy)
WMG-UTIL22	Western Management Group Utilities

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2021 Short-Term Incentive (STI) Scorecard

Weighting*	Measure	Goals and Payout Opportunity		
		Minimum (25% Payout)	Target (100% Payout)	Maximum (200% for EPS; 175% for others)
Financial Performance & Growth				
50%	EPS	$5.00	$5.15	$5.35
	If 2021 adjusted basic EPS is less than or equal to the circuit breaker of $5.09, payouts for all measures, including the team component, will be reduced.			
5%	Operations and Maintenance (O&M) Expense	$5,400M	$5,250M	$5,050M
Operational Excellence: Achieve the highest standards of safety, reliability, and sustainable efficiency				
5%	Reliability Index	25	100	175
5%	Safety/Environmental			
	○ Total Incident Case Rate (TICR) – Employees	0.48	0.36	0.30
	○ Reportable Environmental Events (REE)	18	12	8
Customers: Improve customer loyalty over time to achieve top quartile performance among large utilities nationally in the J.D. Power Residential Utility Study.				
10%	Customer Satisfaction (CSAT) – NPS	44.0	48.0	53.0
Employees: Engage employees and ensure the safety of our workforce and the communities where we work				
25%	Team Goals			

*Metric weights apply to most employees

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	Information Technology/Operational Technology (IT/OT) Cyber Security Project	Intangible Plant in Service	12/31/2025	DEC continues to review its current state maturity of Operational Technology (OT) cybersecurity capabilities, measure maturity improvements and prioritize new initiatives to address future cybersecurity challenges. The IT/OT Cybersecurity Project will update OT governance, risk and compliance standards and processes, implement a new OT specific asset, patch and vulnerability management system, and deliver new OT cybersecurity threat logging and monitoring capabilities. An integrated OT asset, patch, and vulnerability management system is important to quickly react and mitigate cybersecurity risks.	DEC continues to see increased cyber threats against operational assets, including potential geopolitical threats. Cybersecurity is a critical component of the Energy Transition and Grid Protection initiatives as DEC continues to introduce new technologies and distributed energy resources. It is important that we continue to mature DEC's OT security posture to provide safe and reliable energy to our customers. The purpose of the project is to assure safe and sustainable operations through proactive and effective cybersecurity design, implementation and operation of critical energy systems and their underlying technology. Through both cybersecurity maturity assessments and knowledge gathered from updating operational high security technology, new opportunities were identified to proactively address and improve OT cybersecurity capabilities and enhance OT risk mitigation. Output from these cybersecurity assessments formed the basis for the IT/OT Cybersecurity Project. The Project will focus on expanding monitoring and threat response capabilities and will introduce proactive elements to reduce cybersecurity risks.	$ 26,722,908	$4,937,280	$ 5,234,574
	TOTALS					**$ 26,722,908**	**$ 4,937,280**	**$ 5,234,574**

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

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Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
1	Bad Creek U1 Replace Control System	Hydro Plant in Service	12/1/2026	Bad Creek U1 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 4,545,182	$ -	$ 657,570	BA010091
2	Bad Creek U2 Replace Control System	Hydro Plant in Service	12/1/2026	Bad Creek U2 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,280	$ -	$ -	BA020027
3	Bad Creek U3 Replace Control System	Hydro Plant in Service	12/1/2026	Bad Creek U3 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,279	$ -	$ -	BA030016
4	Bad Creek U4 MW Uprate	Hydro Plant in Service	1/1/2024	Upgrade of runner, generator, step-up transformers, and iso-phase bus cooling system.	Unit will increase generator capacity by 80MW and pump capacity by 65MW. This increased capacity can work as additional storage to accommodate solar generation.	$ 31,504,390	$ -	$ -	BA040005
5	Bad Creek U4 Replace Control System	Hydro Plant in Service	12/1/2026	Bad Creek U4 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,280	$ -	$ -	BA040009
6	Bad Creek Unit Transformers Loadcenters	Hydro Plant in Service	7/1/2025	Replace 1,2,3,4TGA Transformers & 1,2,3,4LGA switchgear.	Operating restrictions are currently in place to keep the 1LGA-2LGA load center tie breaker OPEN. The same restrictions will be in place with 3LGA-4LGA once the U4 MW uprate is placed in service (September 2023). In this condition, a single TGA-LGA load center cannot support 2-unit operation (original station design).	$ 2,630,166	$ -	$ -	BA002992
7	Belews Creek BC FGD Lighting Replacement	Steam Plant in Service	9/1/2026	Replace all lighting with upgraded LED lights in the Absorber, Reagent Prep, and Dewatering buildings and the booster fan areas.	Lighting is very dim making it hard to work and creates a walking & slip hazard. Existing lighting system is 15 years old. Existing lighting in scrubber (FGD) areas is all hard-wired, thereby requiring a Lock-Out, Tag-Out (LOTO) every time a light requires replacement. New LED lights will be plug-ins.	$ 2,198,093	$ -	$ -	BC000951

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8	Belews Creek BC01 SCR Catalyst Replacement	Steam Plant in Service	5/1/2025	BC01 SCR catalyst layer replacement.	SCR catalyst layer replacements maintain DEQ-required NOx removal rate based on analysis of samples of catalyst layers.	$ 2,752,086	$ -	$ -	BC010717
9	Belews Creek Boiler Outage - Coal (2025)	Steam Plant in Service	12/1/2025	Belews Creek Boiler 2025 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 400,000	BC00xxxx
10	Belews Creek Boiler Outage - Coal (2024)	Steam Plant in Service	12/1/2024	Belews Creek Boiler 2024 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 2,769,412	BC00xxxx
11	Belews Creek Boiler Outage - Coal (2023)	Steam Plant in Service	12/1/2023	Belews Creek Boiler 2023 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 2,400,000	BC00xxxx
12	Bridgewater Replace 9070 to 3i Controls	Hydro Plant in Service	6/1/2026	Replace Bridgewater 7i controls to 3i (Unit 1, 2, 3, and SCC)	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,004,630	$ -	$ -	BW000025
13	Buck BK11 OpFlex Fast Start	Other Production Plant in Service	10/1/2025	GE to perform OpFlex Fast Start - Purge Credit modifications on the Buck Unit 11 gas turbine. Also includes scope required for burner duct purging.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,167,783	$ -	$ -	BK1100XX
14	Buck BK12 OpFlex Fast Start	Other Production Plant in Service	10/1/2025	GE to perform OpFlex Fast Start - Purge Credit modifications on the Buck Unit 12 gas turbine. Also includes scope required for burner duct purging.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,167,783	$ -	$ -	BK1200XX
15	Buck CC Oily Water Separator (OWS) Replacement	Other Production Plant in Service	12/1/2026	Capital replacement of the existing OWS with an above ground OWS.	New separator to be installed above ground for easier access and inspection to reduce risk of environmental events.	$ 2,734,154	$ -	$ -	BKCC0186
16	BUCK CC Unit Flex Enhancement Prjts	Other Production Plant in Service	12/1/2025	Extend low-load capability to accommodate Solar generationby implementing GE's Op-Flex controls enhancements.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,257,982	$ -	$ -	BKCC0134

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DOCKET NO. E-7 Sub 1276

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17	CC Cycling Project GMA	Other Production Plant in Service	12/1/2025	WS Lee PB1 CC Unit Flexibility Upgrade	Install HRSG damage monitoring system to calculate real time creep and fatigue life of pressure parts (WS Lee PB1)	$ 695,000	$ -	$ -	FHGC0086
18	CC Cycling Project GMA	Other Production Plant in Service	12/1/2025	Dan River PB1 CC Unit Flexibility Upgrade	Install HRSG damage monitoring system to calculate real time creep and fatigue life of pressure parts (Dan River PB1)	$ 695,000	$ -	$ -	FHGC0087
19	Cedar Cliff Civil Life Ext HeadTailra Gates	Hydro Plant in Service	12/1/2024	Cedar Cliff Hydro -Civil Life Extension-Head & Trailrace Gates	Headgate to be engineered to satisfy confined space entry program and Lock-Out, Tag-Out (LOTO) boundary. Tailrace to be installed to isolate personnel from tailrace for maintenance. Will eliminate need for confined space rescue team for unit maintenance and reduce safety concerns with engineering isolation points.	$ 2,684,321	$ -	$ -	CE000023
20	Cedar Cliff Electrical Life Extension	Hydro Plant in Service	5/1/2025	Cedar Cliff Electrical Life Extension	Electrical components in Cedar Cliff Powerhouse are original to the plant from 1952. Switchgear, Controls, Protective Relaying, and Station Service all are at end-of-life and need to be replaced with modern engineered components.	$ 3,565,262	$ -	$ -	CE000021
21	Cedar Cliff Generator Stator Rewind	Hydro Plant in Service	5/1/2025	CE Generator, Stator Rewind - New coils and core steel	Stator last rewind was in 1985. Stator is degraded from oil leak from upper bearing. Unit is undergoing a flow uprate on a separate project replacing the turbine. Generator capability will be evaluated to capture increased power output.	$ 2,596,459	$ -	$ -	CE000052
22	Cedar Cliff Install Turbine Inlet Valve	Hydro Plant in Service	12/1/2024	Cedar Cliff Install Turbine Inlet Valve	Installing a turbine inlet valve will allow water to be shut off to the turbine in case there are problems with the headgate due to rock slides or other abnormal operating conditions. This will also allow working on the main unit without dewatering the penstock. This would allow the min flow unit to operate when working on the main unit.	$ 2,906,533	$ -	$ -	CE000043
23	Cedar Cliff Mechanical Life Extension	Hydro Plant in Service	5/1/2025	Cedar Cliff Mechanical Life Extension	The turbine components and governor are all original construction. Recent trends show that plant major components are nearing end of life and need to be replaced. These upgrades and repairs are necessary to support continued plant operation for the remainder of the FERC operating license.	$ 6,678,647	$ -	$ -	CE000048

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DOCKET NO. E-7 Sub 1276

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24	Cedar Creek Replace 9070 to 3i Controls	Hydro Plant in Service	5/1/2025	Replace Cedar Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,224,384	$ -	$ -	CC001222
25	Clemson Hydrogen Project (CHP) H2 Project	Other Production Plant in Service	7/1/2026	This operational pilot at the recently built and Duke-owned Clemson Combined Heat & Power (CHP) facility will test the dispatchable operational abilities of an integrated hydrogen production, compression, storage, and generation system. This will serve to define the future development requirements and operational needs to reduce the technology introduction risk for a utility-scale system.	Results will define the future development requirements and operational needs for utility-scale hydrogen fueled generating plants.	$ 59,386,417	$ -	$ -	CUCH0083
26	Cliffside Boiler Outage - Coal (2024)	Steam Plant in Service	12/1/2024	Cliffside Boiler 2024 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 1,302,958	CS00xxxx
27	Cliffside Boiler Outage - Coal (2025)	Steam Plant in Service	12/1/2025	Cliffside Boiler 2025 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 400,000	CS00xxxx
28	Cliffside Boiler Outage - Coal (2023)	Steam Plant in Service	12/1/2023	Cliffside Boiler 2023 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ 1,400,000	CS00xxxx
29	Cliffside CS06 Template Turbine MajorValve	Steam Plant in Service	5/1/2026	CS06 2026 Turbine Major Inspection and Turbine Valves. This project includes the scope and costs according to the turbine and turbine valve templates. This does not include Boiler Feed Pump Turbine scope.	Replace capital valve components of the Cliffside Unit 6 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 3,428,418	$ -	$ -	CS060059
30	Compressor Blade Replacement	Other Production Plant in Service	6/1/2024	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering. S1-S5 and additional scope as identified by inspections.	The 7EA combustion turbine fleet is experiencing several compressor related issues. Replacing the stationary compressor blades will mitigate the cracking issues found on other units.	$ 1,102,739	$ -	$ -	MK050001
31	Cowans Ford Bank 2 GSU Replacement	Hydro Plant in Service	9/1/2023	Replace Cowans Ford bank 2 generator step up (GSU) transformer.	Bank 2 generator step-up (GSU) transformer is 55 years old and at end of life. Environmental impact if failure occurred as oil-cooled unit sits over the tailrace. Will maintain plant reliability as 2 units are connected to the transformer.	$ 3,469,118	$ -	$ -	CF000134

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DOCKET NO. E-7Sub 1276

Witness Exhibit **Bryan Walsh 1**

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32	Dan River DR08 OpFlex Fast Start	Other Production Plant in Service	10/1/2025	GE to perform OpFlex Fast Start - Purge Credit modifications on the Dan River Unit 8 gas turbine. Also includes scope required for burner duct purging.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,167,783	$ -	$ -	DR080036
33	Dan River DR09 OpFlex Fast Start	Other Production Plant in Service	10/1/2025	GE to perform OpFlex Fast Start - Purge Credit modifications on the Dan River Unit 9 gas turbine. Also includes scope required for burner duct purging.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,167,783	$ -	$ -	DR090041
34	DRCC Unit Flex Enhancement Projects	Other Production Plant in Service	12/1/2026	Extend low-load capability to accommodate Solar generationby implementing GE's Op-Flex controls enhancements.	Modifications for fast start and low-load capabilities allow units to respond to grid fluctuations due to existing and future renewables generation.	$ 1,257,982	$ -	$ -	DRCC0155
35	FERC Bridgewater Fonta Flora Access Area	Hydro Plant in Service	12/1/2025	Bridgewater Fonta Flora Access Area	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 3,777,616	$ -	$ -	BW001210
36	FERC Bridgewater Pocket Park At Dam LJ Loop	Hydro Plant in Service	12/1/2026	Install Parking, Picnic Facilities, Overlooks, Bank Fishing Trail as part of FERC Catawba Relicensing Requirement	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 2,402,249	$ -	$ -	BW001211
37	FERC Cedar Cliff Dam DF Spillway&Gate House	Hydro Plant in Service	7/1/2024	Capacity of the auxiliary spillway at Cedar Creek will be increased along with the installation of a fuse gate system that will allow increasing amounts of water to pass without overtopping the dam.	FERC has required that all licensees/owners of dams evaluate the ability of each of their dams to withstand and/or safety pass significant inflows from newer postulated extreme weather events (rainfall). Preliminary studies of Cedar Cliff Dam indicate insufficient means to manage inflows incrementally (spillways) as well as maximum possible flood (inflow Design Flood or IIDF).	$ 170,569,964	$ -	$ -	CE000012
38	FERC Cowans Ford Stumpy Creek Access Area	Hydro Plant in Service	12/1/2024	FERC Stumpy Creek Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,166,986	$ -	$ -	CF001208
39	FERC Fishing Creek Floodgate Life Exten Ph II	Hydro Plant in Service	9/1/2024	This scope of work is for turn-key services to procure, fabricate, remove and install new and existing equipment for eleven (11) floodgates.	FERC license was recently renewed for the next 40 years at this facility. Existing equipment has been in service for over 100 years. Relacing aging floodgates will maintain unit reliability for the remaining operational life.	$ 15,960,856	$ -	$ -	FC003677

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RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
40	FERC Great Falls Pedestrian Bridge	Hydro Plant in Service	9/1/2025	FERC Lower Great Falls Reservoir Canoe/Kayak Launch pedestrian bridge	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 4,688,763	$ -	$ -	GF000058
41	FERC Linville Canoe Kayak Access Area	Hydro Plant in Service	6/1/2026	FERC LinvilleCanoe / Kayak Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,387,194	$ -	$ -	BW001212
42	FERC Lookout Shoals Upper Access Area	Hydro Plant in Service	2/1/2025	Upper Lookout Shoals Access Area Construction	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,805,842	$ -	$ -	LK001205
43	FERC Mountain Island Dam Seismic	Hydro Plant in Service	1/1/2026	FERC has required that all licensees/owners of dams evaluate the seismic stability of each of their dams utilizing newer criteria. Mountain Island (MI) preliminary analysis indicates that an adequate factor of safety does not exist.	Upgrades to Mt. Island dam to meet new FERC seismic and flood event requirements.	$ 89,326,498	$ -	$ -	MI000028
44	FERC Moutain Island Riverbend Access Area	Hydro Plant in Service	12/1/2025	Riverbend Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 5,108,386	$ -	$ -	MI001205
45	FERC Oxford Gate Guides for Floodgates	Hydro Plant in Service	12/1/2025	Floodgate guide replacement (First 10') for 10 floodgates.	Existing floodgates guides are collapsing and binding the gates. Installing new gate guides will maintain reliable operation for the renewed 40-year FERC license.	$ 6,993,715	$ -	$ -	OX000050
46	FERC Oxford Spillway Piers Bulkhead	Hydro Plant in Service	12/1/2025	Concrete repairs to ensure infrastructure life is extended.	Spillway and bulkhead concrete is cracking and spalling due to age. Restore degraded concrete elements to original plant configuration to maintain reliability for remainder of 40-yr FERC license renewal.	$ 17,304,036	$ -	$ -	OX000006

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
47	FERC Thorpe Hydro Trout Crk Pipeline Coatings	Hydro Plant in Service	7/1/2026	FERC issue, coatings of Thorpe pipeline at the Trout Creek crossing	Replace coating on main pipeline around the Trout Creek crossing to prevent corrosion and maintain pipeline integrity.	$ 1,648,954	$ -	$ -	TH000011
48	FERC WA Flood Management	Hydro Plant in Service	12/1/2023	Spillway Modifications for Flood Management at Wateree Hydro in Accordance with Catawba Wateree License	Renewed Catawba Wateree FERC License mandates additional 10,000 cfs water passage capability through the Wateree dam/powerhouse. Additional 10,000 CFS of flow will reduce the amount of residential flooding on Lake Wateree during high rain events will provide capability to better prepare for storm inflows by proactively passing more	$ 30,019,959	$ -	$ -	WA001213
49	FERC Wateree Taylor Creek Bank Fishing	Hydro Plant in Service	12/1/2025	FERC Taylor Creek Bank Fishing	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,160,704	$ -	$ -	WA001206
50	Fishing Creek Replace 9070 to 3i Controls	Hydro Plant in Service	12/1/2026	Replace Fishing Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,500,302	$ -	$ -	FC001225
51	Fishing Creek U2 Replace Turbine Gate Casing	Hydro Plant in Service	7/1/2025	Replace turbine gate casing. Includes bottom ring, head cover, wicket gates, arms, links, pins, operating ring, servo motors and associated equipment. All bushings and wear pads to be greaseless.	Foreign material damage to the distributor system and age of equipment (particularly the cast iron head cover) warrant replacement of turbine gate casing components.	$ 7,049,591	$ -	$ -	FC020024
52	Fishing Creek U3 Headgate Replacement	Hydro Plant in Service	8/1/2025	Headgate Replacement Unit 3	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 2,286,314	$ -	$ -	FC030009
53	Fishing Creek U3 Replace Wear Rings	Hydro Plant in Service	12/1/2026	Replace Fishing Ck U3 Wear Rings	Replacing worn turbine wear rings will maintain unit efficiency.	$ 1,146,481	$ -	$ -	FC031204

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7Sub 1276

Witness Exhibit **Bryan Walsh 1**

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54	Fishing Creek U4 Headgate Replacement	Hydro Plant in Service	8/1/2026	Headgate Replacement Unit 4	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,862,805	$ -	$ -	FC040010
55	Fishing Creek U5 Headgate Replacement	Hydro Plant in Service	8/1/2026	Headgate Replacement Unit 5	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,862,805	$ -	$ -	FC050008
56	Great Falls Replace Headworks Rake and Racks	Hydro Plant in Service	9/1/2024	Replace the aging trask rake at the Great Falls Headwork and replace with a new system that runs off EAL. Project would be to remove existing equipment and track and to install a new track and rake. Major damage has also been found to the trash racks and all ten require replacement. Dredging in front of the headworks will be required to ensure racks are fully uncovered for replacement.	Replace the old intake trash rake system which has had several repairs to cracked welds and hydraulic leaks. New trash racks will be installed (10 locations), along with correcting the grating on top of the racks	$ 2,138,210	$ -	$ -	GF000039
57	HCA Dust BC 6C7C6D7D Transfer	Steam Plant in Service	12/1/2026	Install a conveyor transfer system between the head of 6C and the load zone of 7C and between the head of 6D and the load zone of 7D.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The coal conveyor transfer systems between 6C and 7C and between 6D and 7D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. Currently, this fugitive material has to be manually removed to maintain compliance with Combustible Dust	$ 2,727,437	$ -	$ -	BC020315
58	HCA Dust BC23 Conv Trans Repl	Steam Plant in Service	12/1/2023	Replace Belews Creek 2-3 coal transfer conveyor.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between 2 and 3 coal conveyors allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the	$ 1,840,046	$ -	$ -	BC001465
59	HCA DustBC 1 Head Chute Repl	Steam Plant in Service	8/1/2025	#1 head end chute replacement this is the chute going into the 90 ton surge bin. (remove old chute and old magnetic seperator. replace with a flow directive chute made from stainless steel and lined with impact resistant 1" ceramic. the new chute should control the flow towards the center of the bin	#1 Head end coal chute is at end of life. The old magnetic separator needs to be removed from service and chute modified to control combustible dust. New chute will control dust and reduce chances of dust build up for mitigation.	$ 1,517,307	$ -	$ -	BC000199

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

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60	HCA DustBC 6A6D Vibratory Fdrs	Steam Plant in Service	12/1/2024	Install vibratory feeder and slide gates on 6A, 6B, 6C, & 6D hoppers.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between Surge Bin and Conveyors 6A, 6B, 6C, and 6D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 1,896,384	$ -	$ -	BCCM0023
61	HCA Transfer House Wash Down	Steam Plant in Service	11/1/2023	HCAD Transfer House Wash Down System	Provide a fixed washdown system of piping and spray nozzles to remove coal dust from the Transfer House through the operation of one or more valves. Compliance with Combustible Dust Governance Procedure.	$ 1,590,146	$ -	$ -	MS000747
62	Jocassee Replace 9070 Controls	Hydro Plant in Service	11/1/2025	Replace Jocassee Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 2,722,207	$ -	$ -	JO001239
63	Jocassee DFSP Ramp Replacement	Hydro Plant in Service	12/1/2025	The boat ramps at the Main Entrance and the Villas have fallen into disrepair and need to be replaced	The boat ramps at the main entrance and villas have fallen into disrepair and need to be replaced in oder to maintian public access to Lake Jocassee	$ 1,739,296	$ -	$ -	JO000204
64	Jocassee Exterior Life Extension	Hydro Plant in Service	12/1/2024	Replace Jocassee Alpha Intake crane controls; update main & polar hoists with new components including motors and main cable; new cylinder gate seals; and coat entire super structure, cylinder gate, and exposed bridge steel. Also includes the tailrace structure, powerhouse roof deck structure coatings.	Having been in operation for more than 40 years, a number of major exterior components of the power plant have exceeded their design life. These components need to either be completely replaced or significantly rehabilitated in order to reliably extend the operational life the plant.	$ 19,731,322	$ -	$ -	JO001249
65	Jocassee Station Motor Control Center	Hydro Plant in Service	1/1/2024	Replace Station Motor Control Centers that are original plant equipment (40+ years) and no longer supported by OEM.	Components (breakers, starters, operators, etc.) are experiencing age related wear which can cause reduced reliability of this equipment.	$ 1,877,543	$ -	$ -	JO000095
66	Jocassee U1 U2 Motor Control Center	Hydro Plant in Service	12/1/2024	Replace Unit 1 and Unit 2 Motor Control Centers that are original plant equipment (40+ years) and no longer supported by OEM.	Components (breakers, starters, operators, etc.) are experiencing age related wear which can cause reduced reliability of this equipment.	$ 1,600,695	$ -	$ -	JO010055

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

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67		Jocassee U3 U4 Motor Control Center	Hydro Plant in Service	12/1/2025	Replace Unit 3 and Unit 4 Motor Control Centers that are original plant equipment (40+ years) and no longer supported by OEM.	Components (breakers, starters, operators, etc.) are experiencing age related wear which can cause reduced reliability of this equipment.	$ 1,626,782	$ -	$ -	JO030016
68		Jocassee Warehouse Replace Siding Roof	Hydro Plant in Service	12/1/2026	Jocassee Whse Replace siding & roof	Existing Jocassee warehouse roof and siding are degraded and need of replacement.	$ 1,296,456	$ -	$ -	JO000151
69	/1	Lincoln CT 17	Other Production Plant in Service Transmission Plant in Service	12/1/2024	Construction of one Advanced 1X1 J-Frame simple cycle unit (367 MW summer / 404 MW winter) at the existing Lincoln CT site.	Duke Energy Carolinas (DEC) has a 468MW CT need in the 2024 timeframe as referenced in its Integrated Resource Plan (IRP) filed with the North Carolina Utilities Commission (NCUC) in September 2016. Project amount also includes associated transmission assets that have previously been placed in service and now can be included for recovery per the associated CPCN order.	$ 183,882,453	$ 4,254,133	$ -	LC170001
70		Lookout Shoals Repl Jr Generator Penstock Liner	Hydro Plant in Service	12/1/2025	Penstock Replacement - Junior Generators	The carbon steel piping is starting to have interior corrosion issues that need to be addressed. Wall thinning is occuring and leading to through wall leaks of the piping that is above the poured concrete decking. Multiple patches have been installed over the years to repair pin hole leaks.	$ 1,011,925	$ -	$ -	LK001228
71		Lookout Shoals Replace Jr Generator Headgate	Hydro Plant in Service	5/1/2025	This headgate replacement is for the junior generators.	The main generator head gates were replaced in the 90's with steel and concrete construction while the junior generator headgate was not. To ensure continued reliability for the junior generators (min-flow unit) the original construction head gate needs to be replaced.	$ 1,113,714	$ -	$ -	LK000029
72		Marshall - Replace Fuel Handling Trnsfr 2024	Steam Plant in Service	11/1/2024	Install new coal conveyor transfer system for 1A/B to 4A/B and 2B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between 1A and 1B and 4A/4B/2B allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance	$ 2,428,161	$ -	$ -	MS000745
73		Marshall - Replace Fuel Handling Trnsfr 2025	Steam Plant in Service	11/1/2025	Install new coal conveyor transfer system for - F6A/F6B to 4A/B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between F6A/F6B to 4A/B Transfer allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance with the Governance Procedure	$ 2,625,469	$ -	$ -	MS000746

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RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

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74	Marshall Aux Boiler	Steam Plant in Service	10/1/2026	Provide auxilliary steam to start Units 3 & 4 when Units 1 & 2 are offline. Units 1-2 expected to retire in 2028.	Aux steam is required to startup Marshall U3 and U4, requiring another boiler on line to produce steam for startup. If all units were offline U1 or U2 would be needed for startup to get U3 or U4 online. U1 & 2 are projected to retire in 2028 and aux steam source for MS3 & 4 will be needed.	$ 12,696,667	$ -	$ -	MSCM1242
75	Marshall Coal Blending PLC Replacement	Steam Plant in Service	12/1/2023	Replace Marshall coal blending programmable logic controllers (PLC).	Bringing coal blending system controls into the plant Ovation digital control system will provide more efficient operation and facilitate troubleshooting for maintenance.	$ 1,332,432	$ -	$ -	MS001315
76	Marshall Common Boiler Outage - Coal (2025)	Steam Plant in Service	12/1/2025	Marshall Boiler 2025 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 525,000	$ -	$ 1,925,000	MS00xxxx
77	Marshall Common Boiler Outage - Coal (2024)	Steam Plant in Service	12/1/2024	Marshall Boiler 2024 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 6,131,250	$ -	$ 3,438,655	MS00xxxx
78	Marshall Common Boiler Outage - Coal (2023)	Steam Plant in Service	12/1/2023	Marshall Boiler 2023 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 1,781,250	$ -	$ 4,475,000	MS00xxxx
79	Marshall Crusher Motor Chillers Alt Feed	Steam Plant in Service	9/1/2023	Marshall - Coal Crusher Motors Chillers Alternate Feeder	Crusher Motors Chiller power is currently fed from Unit 1 with no backup/alternate source. Crusher motors cannot run without cooler skid. Providing chiller backup power will increase reliability of coal crusher motors.	$ 1,303,455	$ -	$ -	MS000926
80	Marshall MS01 600V 1XS MCC Replacement	Steam Plant in Service	10/1/2024	MS01 - 600V 1XS MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 959,945	$ -	$ -	MS011378
81	Marshall MS1 600V 1XD MCC Replacement	Steam Plant in Service	10/1/2025	600V 1XD MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 999,352	$ -	$ -	MS011394
82	Marshall MS1 MSU Transf Cooler and Pump	Steam Plant in Service	10/1/2024	Replace Marshall Unit 1 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 1,561,748	$ -	$ -	MS010109
83	Marshall MS2 4kV Relay System replacement	Steam Plant in Service	10/1/2025	MS2 4KV Relay System replacement	The existing electromechanical relays on the Marshall Unit 2 4kV system are original equipment. Spare parts for the electro-mechanical relays are getting hard to obtain. The new digital relays are easier to program and have additional protection schemes. The new relays will also reduce the arc flash ratings on the existing gear which will facilitate maintenance on the feeder breakers.	$ 964,159	$ -	$ -	MS020111
84	Marshall MS2 MSU Xfrmr Cooler and Pump	Steam Plant in Service	11/1/2025	Replace Marshall Unit 2 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 1,625,475	$ -	$ -	MS020064

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
85	Marshall MS3 Blr SH Pend Pla Asbly	Steam Plant in Service	5/1/2026	Replace Marshall U3 Bloiler Superheat Pendant Platen Tube Assemblies	Inspection of the boiler superheat platen outlet header and terminal tube penetrations identified 40 areas that needed repair. The superheat pendant tube assembly lower loops also have a history of failing due to intergranular stress corrosion cracking. This replacement would include the entire pendant platen assemblies extending to the platen outlet header.	$ 11,068,510	$ -	$ -	MS031264
86	Marshall MS3 Centerwall Replacement	Steam Plant in Service	5/1/2026	Marshall U3 Boiler Centerwall Replacment and thermal spray application for fireside corrosion protection	Marshall Unit 3 Boiler Center Wall tubes are experiencing corrosion. Replacement tube assemblies will be coated to increase corrosion protection to maintain unit reliability.	$ 11,426,102	$ -	$ -	MS031310
87	Marshall MS3 FD Fan Bearing Oil System	Steam Plant in Service	5/1/2024	Marshall Unit 3 Forced Draft (FD) FAN BEAR NG O L SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 3 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the	$ 910,430	$ -	$ -	MS030130
88	Marshall MS3 Retube Condenser	Steam Plant in Service	6/1/2025	Retube Unit 3 Condenser	As the age of the condenser and hours of operation increase the number of tube failures are also increasing. A tube leak results in the tube being plugged to seal off the tube, preventing the leak. As a result of sealing off tubes the heat transfer area is declining. This adversely affects the unit's performance and deteriorating the heat rate, especially during summer months	$ 4,995,222	$ -	$ -	MS031304
89	Marshall MS3 SH Division Panel Assembly	Steam Plant in Service	5/1/2026	Marshall Unit 3 Superheat (SH) Division Panel Assembly	The boiler superheat (SH) Division Panel Tube Assemblies are experiencing fire side corrosion noted mostly on the outer loops near the right side wall. Division Panel Tube Spacers are failing due to dissimilar metal welds between the spacer tubes and each division panel. There are also tube failures in the division panel wrapper tubes due to intergranular stress corrosion cracking. There are two (2) horizontal spacer tubes per Division Panel for a total of sixteen (16). Both front and rear Superheat division panels need to be replaced.	$ 12,533,431	$ -	$ -	MS031266
90	Marshall MS4 APH REPL	Steam Plant in Service	5/1/2026	Marshall Unit 4 air preheater (APH) basket replacement	Installing new baskets will reduce resistance on the forced draft fans so that they can supply more combustion air when running on natural gas to make up for the loss of combustion air normally provided by the pulverized coal system when running on coal.	$ 5,922,883	$ -	$ -	MS040197

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
91	Marshall MS4 BCP Valve Replacement	Steam Plant in Service	6/1/2026	Replace Boiler Circulating Pump (BCP) valves on Marshall Unit 4	The Marshall Unit 4 A and B boiler circulating pump (BCP) suction, discharge, bypass valve and recirculation valve are reaching end of life. The valves are original equipment to the plant from the late 1960's. Repairs have been made over the course of their existence to keep them in operation, but due to the age and condition of these valves, they are beginning to require more repairs. This is resulting in forced outages from packing and seal leaks. There were two occurrences recorded in the past three years of forced outages caused by these faulty valves. The decline in condition will only increase this trend.	$ 2,080,404	$ -	$ -	MS040111
92	Marshall MS4 Condenser Retube	Steam Plant in Service	6/1/2026	NET Retube Unit 4 Condenser	As the age of the condenser and hours of operation increase the number of tube failures are also increasing. A tube leak results in the tube being plugged to seal off the tube, preventing the leak. As a result of sealing off tubes the heat transfer area is declining. This adversely affects the unit's performance and deteriorating the heat rate, especially during summer months.	$ 6,364,856	$ -	$ -	MS041278
93	Marshall MS4 FD Fan Bearing Oil System	Steam Plant in Service	4/1/2024	Marshall Unit 4 Forced Draft (FD) FAN BEAR NG O L SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 4 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the	$ 936,837	$ -	$ -	MS040117
94	Marshall MS4 D fan motor LCI replacement	Steam Plant in Service	6/1/2024	Replace existing Synchronous Induced Draft (D) Fan Motors with Induction Motors. Replace Obsolete LCI Fans Speed Controllers with New Generation variable frequency drive (VFD) Speed Controllers. Replace current motor vibration equipment.	The MS4 Induced Draft (D) Fan Motors and variable speed LCI drives are 35 years old and are obsolete. Spare parts and knowledgeable vendor technical support are difficult to obtain. Replacing with modern equipment will maintain unit reliability.	$ 7,210,208	$ -	$ -	MS040139
95	Marshall MS4 replace ME in absorber tank	Steam Plant in Service	12/1/2026	Replace the Flue Gas Desulfurization (FGD) absorber vessel mist eliminators with upgraded material that can withstand the higher exhaust gas temperatures associated with the natural gas conversion.	Upgrade to modern materials to allow reliable unit operation when firing on natural gas.	$ 1,169,550	$ -	$ -	MS040168
96	Marshall Station - Replace #3 chiller and air handling unit (AHU).	Steam Plant in Service	12/1/2023	Marshall Station - Replace #3 chiller and air handling unit (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide cooling to all DCS controls and control room for running the plant control systems.	$ 951,160	$ -	$ -	MS001093
97	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Steam Plant in Service	12/1/2024	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide cooling to all DCS controls and control room for running the plant control systems.	$ 1,638,890	$ -	$ -	MS001094

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
98	Mill Creek CT - Replace U1-8 Turbine Controls	Other Production Plant in Service	11/1/2025	Replace the GE MKVI turbine control systems on Mill Creek Units 1 thru 8 with equivalent controls or current technology controls.	GE support for the existing legacy MkVI controls is expected to be discontinued in 2024.	$ 2,525,572	$ -	$ -	MKC00006
99	Mountain Island Replace 9070 Controls	Hydro Plant in Service	9/1/2025	Replace Mountain Island Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,291,761	$ -	$ -	MI001215
100	Mountain Island U3 Trash Racks Stop Logs System	Hydro Plant in Service	12/1/2026	Project to replace existing trash racks with new upstream Unit isolation with procurement and installation of new universal trash racks stop logs system attached to the forebay.	Units cannot be isolated using existing Lee Head Gate due to safety concerns. Installation of an integrated Trash Racks / Stop Logs (TRSL) system will provide the needed unit isolation.	$ 5,400,695	$ -	$ -	MI030004
101	NA GSU Transformer Replacement	Hydro Plant in Service	12/1/2024	Replacement of the failed transformfer at Nantahala and potential hot spare.	The Nantahala 3-phase general step-up (GSU) transformers need replacement. The GSUs are/were 1947 vintage and beyond their useful lifespan. Bank #2 failed due to an internal fault and was replaced in 2022 with a non-matching used transformer on an emergent project to get the generator back to full capacity. The used transformer and original bank #1 GSU from 1947 both need to be replaced with new GSUs specifically designed for the site to maintain reliable generation and recreational flow requirements.	$ 3,153,075	$ -	$ -	NA000643
102	Nantahala Hydro Tainter Gate Hoist Replacements	Hydro Plant in Service	1/1/2026	Replace and automate 4 tainter gates at the Nantahala spillway.	This is a dam safety/reliability project. The current gates are only able to be monitored and operated locally. An operator is dispatched to site during a flood event to manually operate. New automated gate system will allow for remote operation for faster response to flood events.	$ 3,342,718	$ -	$ -	NA000498
103	Ninety Nine Island U4 Turbine Runner Replacement	Hydro Plant in Service	12/1/2026	Replace turbine runner at Ninety-nine island Unit 4	Turbine and internal components are being eroded over time due to sandy river water which degrades performance. Replacing major turbine components will maintain unit reliability.	$ 9,157,859	$ -	$ -	NN040001
104	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 8	Other Production Plant in Service	11/1/2023	Perform a HGPI on Dan River Unit 8 CT per the latest OPT M Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. t is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 16,953,177	$ -	$ 50,000	DR080050

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
105	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 9	Other Production Plant in Service	11/1/2023	Perform a HGPI on Dan River Unit 9 CT per the current OPT M Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. t is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 16,954,004	$ -	$ 50,000	DR090055
106	OPTIM Exciter MJR U2HP	Steam Plant in Service	6/1/2026	Belews Creek Unit 2 HP Exciter Major Inspection per OPTIM and Generator Program Manager/SME recommendations. Workscope to be performed offsite by various vendors. Includes full inspection/testing of rotor, base, and stator components; stationary (stator) coil rewind; base refurbishment; and cooler retubing	BC2 HP exciter base, wiring and field coils are 40+ years old. Field coil insulation issues are developing, which is a unit reliability risk. The exciter base is distorted. Exciter component contamination, especially the diode wheel, from airborne particles has significantly increased since the installation of the gypsum handling facility on the east side of the powerhouse. Diode wheel contamination can provide a path for electrical shorts.	$ 2,066,233	$ -	$ -	BC020271
107	OPTIM Exciter MJR U2LP	Steam Plant in Service	5/1/2026	Belews Creek Unit 2 LP Exciter Major Inspection per OPTIM and Generator Program Manager/SME recommendations. Workscope to be performed offsite by various vendors. Includes full inspection/testing of rotor, base, and stator components; stationary (stator) coil rewind; base refurbishment; cooler retubing; and conversion of exciter housing to Positive Pressure Ventilation.	BC2 LP Exciter Major Inspection per OPT M recommendations. Exciter base, wiring and field coils are 45+ years old. Field (stationary) coil insulation issues are developing, which is a unit reliability risk. The exciter base is distorted. Exciter component contamination, especially the diode wheel, from airborne particles has significantly increased since the installation of the gypsum handling facility on the east side of the powerhouse. Diode wheel contamination can provide a path for electrical shorts.	$ 1,192,693	$ -	$ 738,524	BC020275
108	OPTIM ST Valve CRV MS4	Steam Plant in Service	6/1/2026	MS4 Combined Reheat Valves Replacement	Replace capital valve components of the Marshall Unit 4 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 2,193,145	$ -	$ 81,008	MS040203
109	OPTIM ST Valve RHSVIVTVGV U2	Steam Plant in Service	5/1/2024	Belews Creek Unit 2 Capital Turbine Valve Replacements	Replace capital valve components of the Belews Creek Unit 2 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 4,587,937	$ -	$ 282,745	BC020371
110	OPTIM ST07 Valves 2023	Other Production Plant in Service	11/1/2023	Rebuild the Dan River Steam Turbine Valves per the Outage Template and OPTIM Target. Valves include Control/Governor/Stop/Throttle/RHS/Intercept/CR/Vent/Blow Valves	Replace capital valve components of the Dan River CC Steam Turbine 7 Valves based on Duke Turbine/Generator Services recommended maintenance interval.	$ 1,290,776	$ -	$ 658,282	DR070023
111	Ovation Evergreen Upgrade	Other Production Plant in Service	12/1/2025	Evergreen upgrade of the Ovation DCS system.	Maintain Lincoln CT plant control system reliability by replacing aging/obsolete digital control system (DCS hardware). Upgrade the Lincoln Emerson Ovation DCS to the latest revision. Upgrade HMIs to latest Windows operating system to continue to support patching	$ 1,584,656	$ -	$ -	LCC00139

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
112	Oxford OX Replace 9070 to 3i Controls	Hydro Plant in Service	12/1/2024	Replace Oxford Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,047,103	$ -	$ -	OX001222
113	Oxford Replace Spillway Gantry Girders	Hydro Plant in Service	12/1/2025	Replace existing crane rail support beams to increase design wind speed to 45 MPH for movement between gates and transporting of stop log sections.	The Oxford Hydro station is equipped with a spillway that has ten spillway gates. These spillway gates are operated by two gantry cranes. The existing crane rail support beam system was designed with a wind load rating that is limited to 25 MPH for the cranes to move unloaded and a design wind load of 15 MPH while in motion transporting their heaviest loads, the stop log sections. Two new cranes manufactured by Reel COH were installed on the old gantry rail system. These new gantry cranes are designed for 45 MPH design wind speed for operation carrying a load and 90 MPH when parked. Upgrading the old crane rail system will allow the new cranes to be operated at the new wind load ratings	$ 6,465,101	$ -	$ -	OX000048
114	Oxford U2 Replace Mandoors	Hydro Plant in Service	12/1/2026	Oxford Unit 2 Mandoors	Oxford U2 Mandoors - existing door is original to the station and the cast iron door and bolting flange have deteriorated to the point that achieving a seal is not possible.	$ 1,042,362	$ -	$ -	OX020008
115	Replace Filtered Water Riser - Marshall	Steam Plant in Service	11/1/2023	Replace filtered water riser piping at Marshall Steam Station	Piping is showing signs of significant corrosion. Replacement of this piping is required to ensure future reliability and purity of the Filtered Water System.	$ 2,051,863	$ -	$ -	MS000577
116	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Steam Plant in Service	9/1/2026	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems in the Dumper House between feeders F1A and F1B --1A and 1B--- 3A and 1A and between 3B and 1B and the Crushers allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the house during material handling. This fugitive material has to be manually removed to maintain compliance with the	$ 2,541,562	$ -	$ -	MS000480
117	Replace Marshall Unit 2 Air Preheater (APH) baskets	Steam Plant in Service	12/1/2023	Repl Marshall Unit 2 air preheater (APH) baskets with updated ABS dsgn	Current air preheater (APH) baskets are at end of life. Replacing degraded and plugged baskets will reduce risk of derates from induced draft (ID) fan capacity limits.	$ 3,728,617	$ -	$ -	MS020175

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
118	Rhodhiss RH Replace 9070 to 3i Controls	Hydro Plant in Service	12/1/2024	Replace Rhodhiss Station/Unit Control Systems from 9070 to 3i (U1, 2, and SCC)	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,036,822	$ -	$ -	RH000029
119	Rhodhiss Spillway Debris Gate	Hydro Plant in Service	6/1/2024	Install gate in spillway to pass floating debris. Part of Rhodhiss Life Extension.	Bypassing floating debris before it submerges and builds up in the intake will reduce clogging of trash racks on the unit that impacts unit performance. Will also reduce frequency of dredging the intake.	$ 3,628,878	$ -	$ -	RH000039
120	Rockingham CT RK00 Combustion Dynamics Monitoring System (CDMS) Autotune System	Other Production Plant in Service	10/1/2024	Rockingham CT Combustion Dynamics Monitoring System and Autotune System Installation	Current system requires tuning based on gas properties and ambient conditions. Failure to tune can result in derates and excess NOx. New autotune system will minimize both NOx and seasonal tuning. There should also be a benefit of minimized unloading situations based on the system automatically adjusting to prevent them.	$ 3,132,146	$ -	$ -	RK001265
121	Rockingham CT RK01 Gen Stator and Rotor Rewind	Other Production Plant in Service	11/1/2025	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 6,020,000	$ -	$ -	RK010068
122	Rockingham CT RK02 Gen Stator and Rotor Rewind	Other Production Plant in Service	5/1/2026	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 6,022,971	$ -	$ -	RK020002
123	Rockingham CT RK03 Gen Stator and Rotor Rewind	Other Production Plant in Service	11/1/2025	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 6,020,000	$ -	$ -	RK030040
124	Rockingham CT RK04 Gen Stator and Rotor Rewind	Other Production Plant in Service	11/1/2026	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 6,094,155	$ -	$ -	RK040015

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness **Bryan Walsh**
Exhibit **1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
125	Rockingham CT RK05 Gen Stator and Rotor Rewind	Other Production Plant in Service	3/1/2026	Rewind Generator (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 6,005,878	$ -	$ -	RK050001
126	Thorpe Hydro Generator Replacement	Hydro Plant in Service	12/1/2025	Rewind Generator (Stator and Rotor) based on condition assessment	Rewind Generator (Stator and Rotor) based on condition assessment	$ 2,979,922	$ -	$ -	TH000071
127	Thorpe Hydro GSU Replacement	Hydro Plant in Service	3/1/2026	Replace Thorpe Hydro General Step-Up (GSU) transformer with modern equipment.	Thorpe Hydro's Main Tranformers are original to the plant and are well past their life expectancy. These units currently have no protection outside of differential current trips, and should be replaced with modern assets.	$ 6,305,509	$ -	$ -	TH000052
128	Wateree U1 Wear Ring Replacement	Hydro Plant in Service	10/1/2026	Wateree U1 Wear Ring Replacement	Replacing worn turbine wear rings will maintain unit efficiency.	$ 2,961,948	$ -	$ -	WA011203
129	Wateree U2 Wear Ring Replacement	Hydro Plant in Service	10/1/2026	Wateree U2 Wear Ring Replacement	Replacing worn turbine wear rings will maintain unit efficiency.	$ 1,595,405	$ -	$ -	WA021201
130	WS Lee CC Ammonia Tank Upgrade	Other Production Plant in Service	7/1/2024	Replace 15,000 gallon ammonia tank with an upsized model.	Add ammonia storage capacity to accommodate varying chemical delivery times without running low during operation to maintain emission limits. Adding 15,000-gal tank would provide same total storage (30,000 gals) as Smith Combined Cycle Power Block 5.	$ 1,063,671	$ -	$ -	LSCC0136
131	WS Lee CC LS11 HRH and CRH Isolation Valves	Other Production Plant in Service	11/1/2026	Install hot reheat and cold reheat isolation valves on HRSG 11.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,821	$ -	$ -	LS110016
132	WS Lee CC LS12 HRH and CRH Isolation Valves	Other Production Plant in Service	11/1/2026	Install hot reheat and cold reheat isolation valves on HRSG 12.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,821	$ -	$ -	LS120015

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
133	WS Lee CC Spare GSU Containment	Other Production Plant in Service	8/1/2025	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a General Step-Up (GSU) Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CC with a milestone payment in 2025 and installation in 2026. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters. Having the Spare GSU Transformer shortens unit downtime if there is a GSU failure.	$ 1,578,351	$ -	$ -	LSCC0146
134	WS Lee CC Unit Flex Enhancement Prjcts	Other Production Plant in Service	10/1/2026	WS Lee CC Unit Flex Enhancement Prjcts	WS Lee CC Unit Flexibility Projects to accommodate future renewables generation. Engineering analysis will determine the best option for WS Lee. Possible projects include advanced drum level control, exhaust gas cooling, site automation improvements, CT Purge credits, thermal fatigue tracking software, Reheat attemperator upgrades. And would facilitate increased turndown to lower loads, faster ramp rates, increased Megawatts, etc.	$ 2,103,915	$ -	$ -	LSCC0111
135	WS Lee CC WSL U11 OPTIM LTSA MAJOR	Other Production Plant in Service	11/1/2026	WS LEE CC - U11 HOT GAS PATH/ MAJOR NSPECTION S EMENS LTSA	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. Siemens 501F Gas Turbines require major maintenance at set intervals based on run hours. t is projected that this unit will reach run hours required to perform this maintenance in 2026.	$ 20,069,758	$ -	$ 3,288,157	LS110035
136	WS Lee CC WSL U12 OPTIM LTSA MAJOR	Other Production Plant in Service	11/1/2026	WS LEE CC - U12 HOT GAS PATH/ MAJOR NSPECTION S EMENS LTSA	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. Siemens 501F Gas Turbines require major maintenance at set intervals based on run hours. t is projected that this unit will reach run hours required to perform this maintenance in 2026.	$ 20,069,758	$ -	$ 3,288,157	LS120032
137	WS Lee CT 7C and 8C Spare GSU Containment	Other Production Plant in Service	8/1/2026	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a GSU Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CT 7C/8C as a backup for Oconee. As Oconee's blackstart backup, if there was a XFMR GSU switching failure, Oconee would be at risk. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters.	$ 1,885,369	$ -	$ -	LSC00075
138	WS Lee CTs 2024 Ovation Evergreen	Other Production Plant in Service	10/1/2024	2024 WS Lee CTs Ovation Evergreen	A workstation refresh is needed in 2024 at WS Lee CT 7C and 8C, specifically targeting Windows Server 2012 machines and any other aging hardware. t is a CYBER SECURITY requirement that we be able to do Windows Security patching on all of WS Lee CT's control system assets with updated Ovation versions.	$ 1,201,663	$ -	$ -	LSC00100
139	WSL Unit 11 Siemens FX Upgrade	Other Production Plant in Service	11/1/2026	Upgrade CT11 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 4,928,024	$ -	$ -	LS110040

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DUKE ENERGY CAROLINAS
RRE MYRP PROJECT LIST
DOCKET NO. E-7 Sub 1276

Witness Exhibit **Bryan Walsh 1**

Line No.	MYRP Project Name	FERC Function	Forecasted In-Service Date	Project Description & Scope	Reason for the Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Funding Project
140	WSL Unit 12 Siemens FX Upgrade	Other Production Plant in Service	11/1/2026	Upgrade CT12 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 4,928,024	$ -	$ -	LS120036
141	Wylie Replace 9070 to 3i Controls	Hydro Plant in Service	12/1/2025	Replace Wylie Station/Unit GE Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,057,548	$ -	$ -	WY001223
	TOTALS					**$ 1,052,532,991**	**$ 4,254,133**	**$ 27,605,468**	

/1 In service date is Oct 2024 but in the revenue requirement model a date of Dec 2024 is being used according to CPCN restrictions

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Total Project Amount (System) Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
1	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 8	Other Production Plant in Service	Nov-23	Perform a HGPI on Dan River Unit 8 CT per the latest OPTIM Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. It is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 15,397,339	$ -	$ 50,000
2	OPTIM ST07 Valves 2023	Other Production Plant in Service	Nov-23	Rebuild the Dan River Steam Turbine Valves per the Outage Template and OPTIM Target. Valves include Control/Governor/Stop/Throttle/RHS/Intercept/CR/Vent/Blow Valves	Replace capital valve components of the Dan River CC Steam Turbine 7 Valves based on Duke Turbine/Generator Services recommended maintenance interval.	$ 1,282,393	$ -	$ 658,282
3	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 9	Other Production Plant in Service	Nov-23	Perform a HGPI on Dan River Unit 9 CT per the current OPTIM Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. It is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 16,965,629	$ -	$ 50,000
4	Compressor Blade Replacement	Other Production Plant in Service	Jun-24	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering. S1-S5 and additional scope as identified by inspections.	The 7EA combustion turbine fleet is experiencing several compressor related issues. Replacing the stationary compressor blades will mitigate the cracking issues found on other units.	$ 1,089,347	$ -	$ -
5	WS Lee CC Ammonia Tank Upgrade	Other Production Plant in Service	Sep-24	Replace 15,000 gallon ammonia tank with an upsized model.	Add ammonia storage capacity to accommodate varying chemical delivery times without running low during operation to maintain emission limits. Adding 15,000-gal tank would provide same total storage (30,000 gals) as Smith Combined Cycle Power Block 5.	$ 482,366	$ -	$ -
6	WS Lee CTs 2024 Ovation Evergreen	Other Production Plant in Service	Oct-24	2024 WS Lee CTs Ovation Evergreen	A workstation refresh is needed in 2024 at WS Lee CT 7C and 8C, specifically targeting Windows Server 2012 machines and any other aging hardware. It is a CYBER SECURITY requirement that we be able to do Windows Security patching on all of WS Lee CT's control system assets with updated Ovation versions.	$ 1,020,881	$ -	$ -
7	Ovation Evergreen Upgrade	Other Production Plant in Service	Dec-25	Evergreen upgrade of the Ovation DCS system.	Maintain Lincoln CT plant control system reliability by replacing aging/obsolete digital control system (DCS hardware). Upgrade the Lincoln Emerson Ovation DCS to the latest revision. Upgrade HMIs to latest Windows operating system to continue to support patching	$ 1,585,327	$ -	$ -
8	Mill Creek CT - Replace U1-8 Turbine Controls	Other Production Plant in Service	Nov-25	Replace the GE MKVI turbine control systems on Mill Creek Units 1 thru 8 with equivalent controls or current technology controls.	GE support for the existing legacy MkVI controls is expected to be discontinued in 2024.	$ 5,191,504	$ -	$ -
9	WS Lee CC Spare GSU Containment	Other Production Plant in Service	Aug-25	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a General Step-Up (GSU) Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CC with a milestone payment in 2025 and installation in 2026. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters. Having the Spare GSU Transformer shortens unit downtime if there is a GSU failure.	$ 1,604,642	$ -	$ -
10	Buck CC Oily Water Separator (OWS) Replacement	Other Production Plant in Service	Dec-26	Capital replacement of the existing OWS with an above ground OWS.	New separator to be installed above ground for easier access and inspection to reduce risk of environmental events.	$ 2,740,494	$ -	$ -
11	Rockingham CT RK04 Gen Stator and Rotor Rewind	Other Production Plant in Service	May-25	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,210,846	$ -	$ -
12	Rockingham CT RK05 Gen Stator and Rotor Rewind	Other Production Plant in Service	Sep-26	Rewind Generator (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,232,328	$ -	$ -
13	WS Lee CC LS11 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	Install hot reheat and cold reheat isolation valves on HRSG 11.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,324	$ -	$ -
14	WS Lee CC LS12 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	Install hot reheat and cold reheat isolation valves on HRSG 12.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,324	$ -	$ -

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
15	WS Lee CT 7C and 8C Spare GSU Containment	Other Production Plant in Service	Aug-26	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a GSU Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CT 7C/8C as a backup for Oconee. As Oconee's blackstart backup, if there was a XFMR GSU switching failure, Oconee would be at risk. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters.	$ 1,857,920	$ -	$ -
16	Clemson Hydrogen Project (CHP) H2 Project	Other Production Plant in Service	Jul-26	This operational pilot at the recently built and Duke-owned Clemson Combined Heat & Power (CHP) facility will test the dispatchable operational abilities of an integrated hydrogen production, compression, storage, and generation system. This will serve to define the future development requirements and operational needs to reduce the technology introduction risk for a utility-scale system.	Results will define the future development requirements and operational needs for utility-scale hydrogen fueled generating plants.	$ 61,180,474	$ -	$ -
17	Bad Creek U4 MW Uprate	Hydro Plant in Service	Feb-24	Upgrade of runner, generator, step-up transformers, and iso-phase bus cooling system.	Unit will increase generator capacity by 80MW and pump capacity by 65MW. This increased capacity can work as additional storage to accommodate solar generation.	$ 31,528,994	$ -	$ -
18	Cowans Ford Bank 2 GSU Replacement	Hydro Plant in Service	Nov-24	Replace Cowans Ford bank 2 generator step up (GSU) transformer.	Bank 2 generator step-up (GSU) transformer is 55 years old and at end of life. Environmental impact if failure occurred as oil-cooled unit sits over the tailrace. Will maintain plant reliability as 2 units are connected to the transformer.	$ 6,004,238	$ -	$ -
19	Jocassee Station Motor Control Center	Hydro Plant in Service	Sep-24	Replace Station Motor Control Centers that are original plant equipment (40+ years) and no longer supported by OEM.	Components (breakers, starters, operators, etc.) are experiencing age related wear which can cause reduced reliability of this equipment.	$ 3,264,697	$ -	$ -
20	FERC WA Flood Management	Hydro Plant in Service	Feb-24	Spillway Modifications for Flood Management at Wateree Hydro in Accordance with Catawba Wateree License	Renewed Catawba Wateree FERC License mandates additional 10,000 cfs water passage capability through the Wateree dam/powerhouse. Additional 10,000 CFS of flow will reduce the amount of residential flooding on Lake Wateree during high rain events will provide capability to better prepare for storm inflows by proactively passing more water through the Wateree plant.	$ 28,865,723	$ -	$ -
21	Rhodhiss Spillway Debris Gate	Hydro Plant in Service	Dec-24	Install gate in spillway to pass floating debris. Part of Rhodhiss Life Extension.	Bypassing floating debris before it submerges and builds up in the intake will reduce clogging of trash racks on the unit that impacts unit performance. Will also reduce frequency of dredging the intake.	$ 3,782,782	$ -	$ -
22	FERC Fishing Creek Floodgate Life Exten Ph II	Hydro Plant in Service	Jul-25	This scope of work is for turn-key services to procure, fabricate, remove and install new and existing equipment for eleven (11) floodgates.	FERC license was recently renewed for the next 40 years at this facility. Existing equipment has been in service for over 100 years. Relacing aging floodgates will maintain unit reliability for the remaining operational life.	$ 15,840,428	$ -	$ -
23	Great Falls Replace Headworks Rake and Racks	Hydro Plant in Service	Oct-25	Replace the aging trask rake at the Great Falls Headwork and replace with a new system that runs off EAL. Project would be to remove existing equipment and track and to install a new track and rake. Major damage has also been found to the trash racks and all ten require replacement. Dredging in front of the headworks will be required to ensure racks are fully uncovered for replacement.	Replace the old intake trash rake system which has had several repairs to cracked welds and hydraulic leaks. New trash racks will be installed (10 locations), along with correcting the grating on top of the racks	$ 3,637,288	$ -	$ -
24	Cedar Cliff Civil Life Ext HeadTailra Gates	Hydro Plant in Service	Dec-24	Cedar Cliff Hydro -Civil Life Extension-Head & Trailrace Gates	Headgate to be engineered to satisfy confined space entry program and Lock-Out, Tag-Out (LOTO) boundary. Tailrace to be installed to isolate personnel from tailrace for maintenance. Will eliminate need for confined space rescue team for unit maintenance and reduce safety concerns with engineering isolation points.	$ 2,218,445	$ -	$ -
25	Cedar Cliff Install Turbine Inlet Valve	Hydro Plant in Service	Dec-24	Cedar Cliff Install Turbine Inlet Valve	Installing a turbine inlet valve will allow water to be shut off to the turbine in case there are problems with the headgate due to rock slides or other abnormal operating conditions. This will also allow working on the main unit without dewatering the penstock. This would allow the min flow unit to operate when working on the main unit.	$ 4,154,686	$ -	$ -
26	FERC Cowans Ford Stumpy Creek Access Area	Hydro Plant in Service	Dec-24	FERC Stumpy Creek Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,161,877	$ -	$ -
27	Fishing Creek Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-25	Replace Fishing Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,365,071	$ -	$ -

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Oct 02 2023

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28	Jocassee Exterior Life Extension	Hydro Plant in Service	Dec-24	Replace Jocassee Alpha Intake crane controls; update main & polar hoists with new components including motors and main cable; new cylinder gate seals; and coat entire super structure, cylinder gate, and exposed bridge steel. Also includes the tailrace structure, powerhouse roof deck structure coatings.	Having been in operation for more than 40 years, a number of major exterior components of the power plant have exceeded their design life. These components need to either be completely replaced or significantly rehabilitated in order to reliably extend the operational life the plant.	$ 19,503,649	$ -	$ -
29	NA GSU Transformer Replacement	Hydro Plant in Service	Jan-26	Replacement of the failed transformfer at Nantahala and potential hot spare.	The Nantahala 3-phase general step-up (GSU) transformers need replacement. The GSUs are/were 1947 vintage and beyond their useful lifespan. Bank #2 failed due to an internal fault and was replaced in 2022 with a non-matching used transformer on an emergent project to get the generator back to full capacity. The used transformer and original bank #1 GSU from 1947 both need to be replaced with new GSUs specifically designed for the site to maintain reliable generation and recreational flow requirements.	$ 5,561,206	$ -	$ -
30	Oxford OX Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-24	Replace Oxford Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 719,857	$ -	$ -
31	FERC Lookout Shoals Upper Access Area	Hydro Plant in Service	Sep-25	Upper Lookout Shoals Access Area Construction	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,806,995	$ -	$ -
32	Lookout Shoals Replace Jr Generator Headgate	Hydro Plant in Service	May-25	This headgate replacement is for the junior generators.	The main generator head gates were replaced in the 90's with steel and concrete construction while the junior generator headgate was not. To ensure continued reliability for the junior generators (min-flow unit) the original construction head gate needs to be replaced.	$ 1,113,554	$ -	$ -
33	Cedar Cliff Electrical Life Extension	Hydro Plant in Service	May-26	Cedar Cliff Electrical Life Extension	Electrical components in Cedar Cliff Powerhouse are original to the plant from 1952. Switchgear, Controls, Protective Relaying, and Station Service all are at end-of-life and need to be replaced with modern engineered components.	$ 3,634,331	$ -	$ -
34	Cedar Creek Replace 9070 to 3i Controls	Hydro Plant in Service	Sep-26	Replace Cedar Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,891,773	$ -	$ -
35	Bad Creek Unit Transformers Loadcenters	Hydro Plant in Service	Sep-25	Replace 1,2,3,4TGA Transformers & 1,2,3,4LGA switchgear.	Operating restrictions are currently in place to keep the 1LGA-2LGA load center tie breaker OPEN. The same restrictions will be in place with 3LGA-4LGA once the U4 MW uprate is placed in service (September 2023). In this condition, a single TGA-LGA load center cannot support 2-unit operation (original station design).	$ 2,700,772	$ -	$ -
36	Fishing Creek U2 Replace Turbine Gate Casing	Hydro Plant in Service	Jul-26	Replace turbine gate casing. Includes bottom ring, head cover, wicket gates, arms, links, pins, operating ring, servo motors and associated equipment. All bushings and wear pads to be greaseless.	Foreign material damage to the distributor system and age of equipment (particularly the cast iron head cover) warrant replacement of turbine gate casing components.	$ 6,774,346	$ -	$ -
37	Fishing Creek U3 Headgate Replacement	Hydro Plant in Service	Dec-25	Headgate Replacement Unit 3	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 2,501,207	$ -	$ -
38	FERC Great Falls Pedestrian Bridge	Hydro Plant in Service	Sep-25	FERC Lower Great Falls Reservoir Canoe/Kayak Launch pedestrian bridge	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 4,688,763	$ -	$ -
39	Mountain Island Replace 9070 Controls	Hydro Plant in Service	Sep-25	Replace Mountain Island Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,755,151	$ -	$ -
40	Jocassee Replace 9070 Controls	Hydro Plant in Service	Nov-26	Replace Jocassee Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 2,500,665	$ -	$ -
41	Lookout Shoals Repl Jr Generator Penstock Liner	Hydro Plant in Service	Dec-25	Penstock Replacement - Junior Generators	The carbon steel piping is starting to have interior corrosion issues that need to be addressed. Wall thinning is occuring and leading to through wall leaks of the piping that is above the poured concrete decking. Multiple patches have been installed over the years to repair pin hole leaks.	$ 1,013,555	$ -	$ -

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Oct 02 2023

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42	FERC Bridgewater Fonta Flora Access Area	Hydro Plant in Service	Dec-25	Bridgewater Fonta Flora Access Area	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 3,786,845	$ -	$ -
43	Jocassee DFSP Ramp Replacement	Hydro Plant in Service	Dec-25	The boat ramps at the Main Entrance and the Villas have fallen into disrepair and need to be replaced	The boat ramps at the main entrance and villas have fallen into disrepair and need to be replaced in oder to maintian public access to Lake Jocassee	$ 1,743,125	$ -	$ -
44	FERC Moutain Island Riverbend Access Area	Hydro Plant in Service	Dec-25	Riverbend Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 5,120,861	$ -	$ -
45	FERC Oxford Spillway Piers Bulkhead	Hydro Plant in Service	Jun-25	Concrete repairs to ensure infrastructure life is extended.	Spillway and bulkhead concrete is cracking and spalling due to age. Restore degraded concrete elements to original plant configuration to maintain reliability for remainder of 40-yr FERC license renewal.	$ 32,303,359	$ -	$ -
46	Oxford Replace Spillway Gantry Girders	Hydro Plant in Service	Mar-26	Replace existing crane rail support beams to increase design wind speed to 45 MPH for movement between gates and transporting of stop log sections.	The Oxford Hydro station is equipped with a spillway that has ten spillway gates. These spillway gates are operated by two gantry cranes. The existing crane rail support beam system was designed with a wind load rating that is limited to 25 MPH for the cranes to move unloaded and a design wind load of 15 MPH while in motion transporting their heaviest loads, the stop log sections. Two new cranes manufactured by Reel COH were installed on the old gantry rail system. These new gantry cranes are designed for 45 MPH design wind speed for operation carrying a load and 90 MPH when parked. Upgrading the old crane rail system will allow the new cranes to be operated at the new wind load ratings.	$ 15,095,452	$ -	$ -
47	FERC Oxford Gate Guides for Floodgates	Hydro Plant in Service	Mar-26	Floodgate guide replacement (First 10') for 10 floodgates.	Existing floodgates guides are collapsing and binding the gates. Installing new gate guides will maintain reliable operation for the renewed 40-year FERC license.	$ 6,716,860	$ -	$ -
48	Thorpe Hydro Generator Replacement	Hydro Plant in Service	Dec-25	Replace Thorp Hydro Turbine Impeller and Generator Assembly	Turbine/Generator unit was installed in 1941. Turbine bearing operates at high temperature and experiences leaks. Bearing replacement is not feasible due to age and design. Generator rotor is experiencing cracking with increased frequency of repairs and risk of forced outage. New turbine/generator assembly will provide increased output of 3-5 MW.	$ 15,437,920	$ -	$ -
49	FERC Wateree Taylor Creek Bank Fishing	Hydro Plant in Service	Dec-25	FERC Taylor Creek Bank Fishing	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,158,721	$ -	$ -
50	FERC Linville Canoe Kayak Access Area	Hydro Plant in Service	Jun-26	FERC LinvilleCanoe / Kayak Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,388,199	$ -	$ -
51	FERC Thorpe Hydro Trout Crk Pipeline Coatings	Hydro Plant in Service	Jul-26	FERC issue, coatings of Thorpe pipeline at the Trout Creek crossing	Replace coating on main pipeline around the Trout Creek crossing to prevent corrosion and maintain pipeline integrity.	$ 1,650,747	$ -	$ -
52	Fishing Creek U4 Headgate Replacement	Hydro Plant in Service	Aug-26	Headgate Replacement Unit 4	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,865,580	$ -	$ -
53	Fishing Creek U5 Headgate Replacement	Hydro Plant in Service	Aug-26	Headgate Replacement Unit 5	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,865,580	$ -	$ -
54	Mountain Island U3 Trash Racks Stop Logs System	Hydro Plant in Service	Jul-24	Project to replace existing trash racks with new upstream Unit isolation with procurement and installation of new universal trash racks stop logs system attached to the forebay.	Units cannot be isolated using existing Lee Head Gate due to safety concerns. Installation of an integrated Trash Racks / Stop Logs (TRSL) system will provide the needed unit isolation.	$ 4,729,996	$ -	$ -
55	Bad Creek U1 Replace Control System	Hydro Plant in Service	Aug-26	Bad Creek U1 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 4,548,204	$ -	$ 657,570

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
56	Bad Creek U2 Replace Control System	Hydro Plant in Service	Dec-26	Bad Creek U2 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,476	$ -	$ -
57	Bad Creek U3 Replace Control System	Hydro Plant in Service	Dec-26	Bad Creek U3 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,476	$ -	$ -
58	FERC Bridgewater Pocket Park At Dam LJ Loop	Hydro Plant in Service	Dec-26	Install Parking, Picnic Facilities, Overlooks, Bank Fishing Trail as part of FERC Catawba Relicensing Requirement	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 2,405,361	$ -	$ -
59	Fishing Creek U3 Replace Wear Rings	Hydro Plant in Service	Dec-26	Replace Fishing Ck U3 Wear Rings	Replacing worn turbine wear rings will maintain unit efficiency.	$ 1,135,678	$ -	$ -
60	Jocassee Warehouse Replace Siding Roof	Hydro Plant in Service	Dec-26	Jocassee Whse Replace siding & roof	Existing Jocassee warehouse roof and siding are degraded and need of replacement.	$ 1,298,164	$ -	$ -
61	Oxford U2 Replace Mandoors	Hydro Plant in Service	Dec-26	Oxford Unit 2 Mandoors	Oxford U2 Mandoors - existing door is original to the station and the cast iron door and bolting flange have deteriorated to the point that achieving a seal is not possible.	$ 1,042,907	$ -	$ -
62	HCA Dust BC23 Conv Trans Repl	Steam Plant in Service	Dec-23	Replace Belews Creek 2-3 coal transfer conveyor.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between 2 and 3 coal conveyors allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 1,840,330	$ -	$ -
63	Marshall - Replace Fuel Handling Trnsfr 2024	Steam Plant in Service	Nov-25	Install new coal conveyor transfer system for 1A/B to 4A/B and 2B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between 1A and 1B and 4A/4B/2B allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance with the Governance Procedure.	$ 2,377,042	$ -	$ -
64	HCA Transfer House Wash Down	Steam Plant in Service	Nov-23	HCAD Transfer House Wash Down System	Provide a fixed washdown system of piping and spray nozzles to remove coal dust from the Transfer House through the operation of one or more valves. Compliance with Combustible Dust Governance Procedure.	$ 1,518,636	$ -	$ -
65	Marshall - Replace Fuel Handling Trnsfr 2025	Steam Plant in Service	Nov-26	Install new coal conveyor transfer system for - F6A/F6B to 4A/B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between F6A/F6B to 4A/B Transfer allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance with the Governance Procedure.	$ 2,625,605	$ -	$ -
66	Marshall Aux Boiler	Steam Plant in Service	Feb-26	Provide auxilliary steam to start Units 3 & 4 when Units 1 & 2 are offline. Units 1-2 expected to retire in 2028.	Aux steam is required to startup Marshall U3 and U4, requiring another boiler on line to produce steam for startup. If all units were offline U1 or U2 would be needed for startup to get U3 or U4 online. U1 & 2 are projected to retire in 2028 and aux steam source for MS3 & 4 will be needed.	$ 12,169,850	$ -	$ -
67	Marshall Coal Blending PLC Replacement	Steam Plant in Service	Dec-23	Replace Marshall coal blending programmable logic controllers (PLC).	Bringing coal blending system controls into the plant Ovation digital control system will provide more efficient operation and facilitate troubleshooting for maintenance.	$ 1,332,301	$ -	$ -
68	OPTIM ST Valve RHSVIVTVGV U2	Steam Plant in Service	May-24	Belews Creek Unit 2 Capital Turbine Valve Replacements	Replace capital valve components of the Belews Creek Unit 2 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 4,513,478	$ -	$ 282,745

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
69	HCA DustBC 6A6D Vibratory Fdrs	Steam Plant in Service	Dec-24	Install vibratory feeder and slide gates on 6A, 6B, 6C, & 6D hoppers.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between Surge Bin and Conveyors 6A, 6B, 6C, and 6D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 1,899,900	$ -	$ -
70	Marshall Crusher Motor Chillers Alt Feed	Steam Plant in Service	Sep-23	Marshall - Coal Crusher Motors Chillers Alternate Feeder	Crusher Motors Chiller power is currently fed from Unit 1 with no backup/alternate source. Crusher motors cannot run without cooler skid. Providing chiller backup power will increase reliability of coal crusher motors.	$ 1,471,620	$ -	$ -
71	Marshall MS01 600V 1XS MCC Replacement	Steam Plant in Service	Oct-24	MS01 - 600V 1XS MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 954,590	$ -	$ -
72	Marshall MS1 600V 1XD MCC Replacement	Steam Plant in Service	Oct-25	600V 1XD MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 994,169	$ -	$ -
73	Marshall MS1 MSU Transf Cooler and Pump	Steam Plant in Service	Oct-24	Replace Marshall Unit 1 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 974,000	$ -	$ -
74	Marshall MS2 4kV Relay System replacement	Steam Plant in Service	Oct-25	MS2 4KV Relay System replacement	The existing electromechanical relays on the Marshall Unit 2 4kV system are original equipment. Spare parts for the electro-mechanical relays are getting hard to obtain. The new digital relays are easier to program and have additional protection schemes. The new relays will also reduce the arc flash ratings on the existing gear which will facilitate maintenance on the feeder breakers.	$ 960,042	$ -	$ -
75	HCA DustBC 1 Head Chute Repl	Steam Plant in Service	Aug-25	#1 head end chute replacement this is the chute going into the 90 ton surge bin. (remove old chute and old magnetic seperator. replace with a flow directive chute made from stainless steel and lined with impact resistant 1" ceramic. the new chute should control the flow towards the center of the bin area.	#1 Head end coal chute is at end of life. The old magnetic separator needs to be removed from service and chute modified to control combustible dust. New chute will control dust and reduce chances of dust build up for mitigation.	$ 1,513,088	$ -	$ -
76	Belews Creek BC01 SCR Catalyst Replacement	Steam Plant in Service	May-25	BC01 SCR catalyst layer replacement.	SCR catalyst layer replacements maintain DEQ-required NOx removal rate based on analysis of samples of catalyst layers.	$ 3,181,664	$ -	$ -
77	Marshall MS2 MSU Xfrmr Cooler and Pump	Steam Plant in Service	Nov-24	Replace Marshall Unit 2 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 974,000	$ -	$ -
78	Marshall MS3 FD Fan Bearing Oil System	Steam Plant in Service	Apr-24	Marshall Unit 3 Forced Draft (FD) FAN BEARING OIL SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 3 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the frequency of oil changes.	$ 790,478	$ -	$ -
79	Cliffside CS06 Template Turbine MajorValve	Steam Plant in Service	May-26	CS06 2026 Turbine Major Inspection and Turbine Valves. This project includes the scope and costs according to the turbine and turbine valve templates. This does not include Boiler Feed Pump Turbine scope.	Replace capital valve components of the Cliffside Unit 6 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 474,525	$ -	$ -
80	Belews Creek BC FGD Lighting Replacement	Steam Plant in Service	Sep-26	Replace all lighting with upgraded LED lights in the Absorber, Reagent Prep, and Dewatering buildings and the booster fan areas.	Lighting is very dim making it hard to work and creates a walking & slip hazard. Existing lighting system is 15 years old. Existing lighting in scrubber (FGD) areas is all hard-wired, thereby requiring a Lock-Out, Tag-Out (LOTO) every time a light requires replacement. New LED lights will be plug-ins.	$ 2,212,121	$ -	$ -
81	OPTIM Exciter MJR U2HP	Steam Plant in Service	Jun-26	Belews Creek Unit 2 HP Exciter Major Inspection per OPTIM and Generator Program Manager/SME recommendations. Workscope to be performed offsite by various vendors. Includes full inspection/testing of rotor, base, and stator components; stationary (stator) coil rewind; base refurbishment; and cooler retubing	BC2 HP exciter base, wiring and field coils are 40+ years old. Field coil insulation issues are developing, which is a unit reliability risk. The exciter base is distorted. Exciter component contamination, especially the diode wheel, from airborne particles has significantly increased since the installation of the gypsum handling facility on the east side of the powerhouse. Diode wheel contamination can provide a path for electrical shorts.	$ 2,209,702	$ -	$ -

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Oct 02 2023

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82	HCA Dust BC 6C7C6D7D Transfer	Steam Plant in Service	Dec-26	Install a conveyor transfer system between the head of 6C and the load zone of 7C and between the head of 6D and the load zone of 7D.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The coal conveyor transfer systems between 6C and 7C and between 6D and 7D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. Currently, this fugitive material has to be manually removed to maintain compliance with Combustible Dust requirements.	$ 2,793,126	$ -	$ -
83	Marshall MS4 BCP Valve Replacement	Steam Plant in Service	Jun-26	Replace Boiler Circulating Pump (BCP) valves on Marshall Unit 4	The Marshall Unit 4 A and B boiler circulating pump (BCP) suction, discharge, bypass valve and recirculation valve are reaching end of life. The valves are original equipment to the plant from the late 1960's. Repairs have been made over the course of their existence to keep them in operation, but due to the age and condition of these valves, they are beginning to require more repairs. This is resulting in forced outages from packing and seal leaks. There were two occurrences recorded in the past three years of forced outages caused by these faulty valves. The decline in condition will only increase this trend.	$ 2,081,793	$ -	$ -
84	Marshall MS4 FD Fan Bearing Oil System	Steam Plant in Service	Apr-24	Marshall Unit 4 Forced Draft (FD) FAN BEARING OIL SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 4 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the frequency of oil changes.	$ 936,919	$ -	$ -
85	Marshall MS4 ID fan motor LCI replacement	Steam Plant in Service	Jun-24	Replace existing Synchronous Induced Draft (ID) Fan Motors with Induction Motors. Replace Obsolete LCI Fans Speed Controllers with New Generation variable frequency drive (VFD) Speed Controllers. Replace current motor vibration equipment.	The MS4 Induced Draft (ID) Fan Motors and variable speed LCI drives are 35 years old and are obsolete. Spare parts and knowledgeable vendor technical support are difficult to obtain. Replacing with modern equipment will maintain unit reliability.	$ 2,498,280	$ -	$ -
86	Marshall MS4 replace ME in absorber tank	Steam Plant in Service	Dec-26	Replace the Flue Gas Desulfurization (FGD) absorber vessel mist eliminators	Upgrade to modern materials to allow reliable unit operation when firing on natural gas.	$ 1,154,891	$ -	$ -
87	OPTIM ST Valve CRV MS4	Steam Plant in Service	Jun-26	MS4 Combined Reheat Valves Replacement	Replace capital valve components of the Marshall Unit 4 Steam Turbine based on Duke	$ 2,146,113	$ -	$ 81,008
88	Marshall Station - Replace #3 chiller and	Steam Plant in Service	Dec-23	Marshall Station - Replace #3 chiller and air handling unit (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide	$ 948,385	$ -	$ -
89	Lincoln CT 17	Other Production Plant in Service	Jan-24	Construction of one Advanced 1X1 J-Frame simple cycle unit (367 MW summer / 404 MW winter) at the existing Lincoln CT site. Includes the transmission project to support Lincoln CT 17 capacity. Forecasted in-service date is dependent on pending DEC Petition for Amendment to CPCN to allow Unit 17 to go in service in January 2024, in Docket No. E-7, Sub 1134.	Duke Energy Carolinas (DEC) has a 468MW CT need in the 2024 timeframe as referenced in its Integrated Resource Plan (IRP) filed with the North Carolina Utilities Commission (NCUC) in September 2016. Transmission includes Interconnect between the high side of the Generator Step-Up transformers (GSU's) and the existing Substation / Switchyard. All transmission equipment installed will meet FERC, NERC and System Transmission Reliability Standards.	$ 172,452,383	$ 4,254,133	$ -
90	FERC Mountain Island Dam Seismic	Hydro Plant in Service	Feb-26	FERC has required that all licensees/owners of dams evaluate the seismic stability of each of their dams utilizing newer criteria. Mountain Island (MI) preliminary analysis indicates that an adequate factor of safety does not exist.	Upgrades to Mt. Island dam to meet new FERC seismic and flood event requirements.	$ 85,382,811	$ -	$ -
91	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Steam Plant in Service	Dec-24	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide cooling to all DCS controls and control room for running the plant control systems.	$ 1,642,431	$ -	$ -
92	Replace Filtered Water Riser - Marshall	Steam Plant in Service	Nov-23	Replace filtered water riser piping at Marshall Steam Station	Piping is showing signs of significant corrosion. Replacement of this piping is required to ensure future reliability and purity of the Filtered Water System.	$ 2,008,268	$ -	$ -
93	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Steam Plant in Service	Sep-26	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems in the Dumper House between feeders F1A and F1B --1A and 1B--- 3A and 1A and between 3B and 1B and the Crushers allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the house during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 2,543,638	$ -	$ -
94	WSL Unit 11 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	Upgrade CT11 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 8,121,244	$ -	$ -

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Oct 02 2023

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95	WSL Unit 12 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	Upgrade CT12 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 8,121,244	$ -	$ -
96	Rockingham CT RK01 Gen Stator and Rotor Rewind	Other Production Plant in Service	Nov-26	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 2,869,863	$ -	$ -
97	Rockingham CT RK03 Gen Stator and Rotor Rewind	Other Production Plant in Service	Oct-25	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,278,299	$ -	$ -
98	Replace Marshall Unit 2 Air Preheater (APH) baskets	Steam Plant in Service	Dec-23	Repl Marshall Unit 2 air preheater (APH) baskets with updated ABS dsgn	Current air preheater (APH) baskets are at end of life. Replacing degraded and plugged baskets will reduce risk of derates from induced draft (ID) fan capacity limits.	$ 4,010,213	$ -	$ -
99	FERC Lookout Shoals Seismic Net Proj	Hydro Plant in Service	Nov-23	Upgrade Lookout Shoals Dam Stability based on latest FERC requirements	The Federal Energy Regulatory Commission (FERC) has required that all licensees/owners of dams evaluate the seismic stability of each of their dams utilizing newer criteria. Lookout Shoal's preliminary analysis indicates that an adequate factor of safety does not exist. Therefore, it is mandatory for Duke Energy to develop a proposed stability improvement that results in an acceptable factor of safety.	$ 60,602,062	$ -	$ -
100	Tennessee Creek Wolf Creek Replace Intake Hoist	Hydro Plant in Service	Dec-26	Replace Wolf Creek Hydro Intake Hoist	Intake hoist is original equipment and at the end of its life. The building housing the hoist and cables is deteriorated and poses a safety hazard.	$ 1,670,400	$ -	$ -
101	Wateree Bank 3 GSU Replacement	Hydro Plant in Service	Dec-26	Replacement of Wateree Bank 3 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,756,303	$ -	$ -
102	Wateree Bank 2 GSU Replacement	Hydro Plant in Service	Jun-26	Replacement of Wateree Bank 2 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,747,014	$ -	$ -
103	Cedar Creek Stumpy Pond Access Area Upgrades	Hydro Plant in Service	Apr-26	Capital improvements for public boater access to the Cedar Creek reservoir. Stumpy Pond will be the main take out for the Dearborn Diversion Project.	Required per FERC Catawba River relicensing	$ 2,440,439	$ -	$ -
104	FERC Bridgewater YANCEY ROAD ACCESS AREA	Hydro Plant in Service	Dec-25	Gravel parking lot and non-motorized boat launch, Bridgewater Hydro.	Required per FERC Catawba River relicensing	$ 1,860,073	$ -	$ -
105	Cedar Creek Floodgate Refurbishment	Hydro Plant in Service	Dec-25	Capital Refurb of Cedar Creek Hydro Floodgates	The Cedar Creek floodgates are deteriorated and need to be refurbished to maintain operability. If a structural event were to occur with the floodgate, consequences could include uncontrolled release of lake water or Cedar Creek would not be able to pass water when necessary, either condition leading to a significant event.	$ 2,220,830	$ -	$ -
106	Wateree Bank 1 GSU Replacement	Hydro Plant in Service	Dec-25	Replacement of Wateree Bank 1 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,756,921	$ -	$ -
107	FERC Lower Great Fals lReserve CanKay Launch	Hydro Plant in Service	Sep-25	Install Canoe/Kayak Launch at Lower Great Falls Reservoir	Required per FERC Catawba River relicensing	$ 1,594,440	$ -	$ -

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Oct 02 2023

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108	Bear Creek Generator Rewind	Hydro Plant in Service	Sep-25	Rewind Bear Creek Hydro Generator	New generator winding will accommodate unit uprate from new turbine runner	$ 2,721,618	$ -	$ -
109	Nantahala U1 Spare Runner	Hydro Plant in Service	Aug-25	Procure Spare Runner for Nantahala Unit 1 Voith Turbine	Existing turbine runner shows some cracking. 60-70 week lead time for new runner.	$ 2,849,301	$ -	$ -
110	Wateree Bank 4 GSU Replacement	Hydro Plant in Service	Jun-25	Replacement of Wateree Bank 4 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,747,014	$ -	$ -
111	Cowans Ford Ramsey Creek Boat Ramp Replace	Hydro Plant in Service	Apr-25	Replace Ramsey Creek Access Boat Ramps	Ramsey Creek Boat Ramps have fallen into disrepair and need to be replaced	$ 1,444,620	$ -	$ -
112	FERC Queens Creek PMF Wall Raise Dam Crest	Hydro Plant in Service	Apr-25	Raise Dam Crest at Queens Creek Hydro	Meet FERC requirements for Probable Maximum Flood (PMF) event	$ 1,691,451	$ -	$ -
113	Bad Creek Tie Back Wall Anchor System	Hydro Plant in Service	Mar-25	Install new anchor system for tieback wall at Bad Creek Hydro	Existing tie back wall is moving due to soil nail anchors not being in stable ground.	$ 3,545,335	$ -	$ -
114	Mt. Island U4 Trash Racks Stop Logs System	Hydro Plant in Service	Feb-25	Installation of new universal trash racks stop logs system attached to the forebay at Mt. Island Hydro	Units cannot be isolated using existing Lee Head Gate due to safety concerns. New universal trash racks stop logs system will provide unit isolation capability.	$ 4,802,504	$ -	$ -
115	Lookout Shoals Service Water PVC Replacement	Hydro Plant in Service	Dec-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,063,021	$ -	$ -
116	Queens Creek Replace GSU ENV	Hydro Plant in Service	Dec-24	Remove oil filled GSU transformer in Nantahala switchyard and replace with a dry type transformer.	The Queens Creek GSU transformer is oil filled and presents an environmental spill hazard. This transformer is located in the Nantahala switchyard adjacent to the tailrace.	$ 2,376,929	$ -	$ -
117	Wylie Service Water PVC Replacement	Hydro Plant in Service	Aug-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,193,965	$ -	$ -
118	Bear Creek Turbine Runner Replacement	Hydro Plant in Service	Jun-24	Replace Bear Creek Hydro Turbine Runner	Turbine Runner experienced catastophic failure in November 2022. Turbine was found to have cracked blades and additional damage due to cavitation.	$ 2,258,000	$ -	$ -
119	Wateree Service Water PVC Replacement	Hydro Plant in Service	Mar-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,143,996	$ -	$ -
120	FERC Ninety Nine Island PICKHILL RECONFIGURATION	Hydro Plant in Service	Mar-24	Reconfigure the Pickhill Access Area boat ramp	The Pickhill Access Area boat ramp continues to be overrun with silt, making the ramp unusable. Potential violation of FERC operating license if not kept in usable condition.	$ 1,450,335	$ -	$ -
121	FERC Cowans Ford Beattys Ford Swim Area	Hydro Plant in Service	Feb-24	Construct Beatty's Ford Access/Swim Area	Required per FERC Catawba River relicensing	$ 4,297,668	$ -	$ -
122	Jocassee Install AHU 1-5 Chillers WC Sys	Hydro Plant in Service	Feb-24	Install new chillers for Jocassee 1-5 Air Handling Units	The existing Air Handling Units 1-5 at Jocassee are at the end of their useful lives, and are experiencing leaks in the heat exhangers.	$ 4,582,787	$ -	$ -

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Oct 02 2023

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123	Bad Creek T/L Expansion Land Purchase	Hydro Plant in Service	Mar-24	Bad Creek Land Purchase	Property needed to expand Tranmission Line to support second powerhouse. Land held for future production use is a Unit of Property in the Capital listing.	$ 10,698,500	$ -	$ -
124	Lincoln CT Exhaust Plenum Rplmt - 2026	Other Production Plant in Service	Dec-26	Replacement of the Lincoln U1-16 CT exhaust plenums. Two Power Blocks per year (4 units per year total)	The exhaust duct plenum/exhaust scroll for Lincoln 7EA gas turbines is degrading. Multiple hotspots are visible and detectable by IR surveys, indicating insulation failure. Exhaust gas leaks around the scroll joints are occurring and damaging the external skin. Continued degradation will lead to failure of the exhaust plenum and/or scroll.	$ 1,438,562	$ -	$ -
125	WS Lee 2026 CT12 LTSA	Other Production Plant in Service	Nov-26	WS LEE CC - U12 HOT GAS PATH INSPECTION SIEMENS Long Term Service Agreement (LTSA)	Maintenance is performed on the Siemens Gas Turbines at intervals based on unit run hours. The run hours will be achieved for a hot gas path inspection during this period.	$ 20,151,637	$ -	$ 1,484,507
126	Rockingham CT OPTIM HGP Unit 1	Other Production Plant in Service	Nov-26	Perform a Hot Gas Path Inspection (HGPI) on Rockingham Unit 1 CT	Perform a standard hot gas path inspection in accordance with OEM engineering standards and the OPTIM Model for HGPI Interval Maintenance.	$ 9,298,814	$ -	$ -
127	Rockingham CT OPTIM HGP Unit 5	Other Production Plant in Service	Nov-26	Perform a Hot Gas Path Inspection (HGPI) on Rockingham Unit 5 CT	Perform a standard hot gas path inspection in accordance with OEM engineering standards and the OPTIM Model for HGPI Interval Maintenance.	$ 8,559,091	$ -	$ -
128	WS Lee 2026 CT11 LTSA	Other Production Plant in Service	Sep-26	WS LEE CC - U11 HOT GAS PATH INSPECTION SIEMENS Long Term Service Agreement (LTSA)	Maintenance is performed on the Siemens Gas Turbines at intervals based on unit run hours. The run hours will be achieved for a hot gas path inspection during this period.	$ 19,827,329	$ -	$ 1,445,149
129	WS Lee OPTIM ST10 Valves 2026	Other Production Plant in Service	Jun-26	WS Lee CC Turbine Capital Valve Inspection/Repairs.	Steam Turbine Valves require inspeciton and/or repair at 3 year intervals per company and engineering practice.	$ 2,026,826	$ -	$ 1,190,054
130	BKCC Ovation Evergreen	Other Production Plant in Service	Mar-26	Upgrade Buck CC Ovation Evergreen controls	Have up-to-date control system platforms to facilitate advanced Process Control Strategies such as combustion autotune, extended turndown and optimized steam temperature control.	$ 1,538,725	$ -	$ -
131	Buck CTCC Rebuild B Chiller Units	Other Production Plant in Service	Mar-26	Rebuild Buck CC B Chiller Units	10-year chiller rebuild to maintain unit reliability for peak summer operation	$ 1,580,730	$ -	$ -
132	DEC CT/CC Digital Automation	Other Production Plant in Service	Dec-25	Combustion Turbine/Combined Cycle Digital Automation Projects	Part of a 3 year plan to implement Alarming Optimization, Transition Operations Automation, On Line Monitoring & Remote Operation	$ 4,764,054	$ -	$ -
133	Lincoln CT Exhaust Plenum Rplmt - 2025	Other Production Plant in Service	Dec-25	Replacement of the Lincoln U1-16 CT exhaust plenums. Two Power Blocks per year (4 units per year total)	The exhaust duct plenum/exhaust scroll for Lincoln 7EA gas turbines is degrading. Multiple hotspots are visible and detectable by IR surveys, indicating insulation failure. Exhaust gas leaks around the scroll joints are occurring and damaging the external skin. Continued degradation will lead to failure of the exhaust plenum and/or scroll.	$ 1,438,562	$ -	$ -
134	Mill Creek OPTIM CT CI Unit 7	Other Production Plant in Service	Nov-25	Mill Creek Unit 7 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U7 will be due for its 1st combustion inspection in 2023.	$ 1,805,892	$ -	$ -
135	Mill Creek MK08 Compressor Blade Replacement	Other Production Plant in Service	Nov-25	Replace Mill Creek Unit 8 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,328,158	$ -	$ -
136	Mill Creek MK07 Compressor Blade Replacement	Other Production Plant in Service	Nov-25	Replace Mill Creek Unit 7 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,327,229	$ -	$ -
137	Buck CTCC OPTIM GT11 Stator Rewedge	Other Production Plant in Service	Sep-25	Rewedge Buck Unit 11 generator stator	Generator Stator rewedge interval determined per OPTIM recommendations	$ 1,592,499	$ -	$ -

OFFICIAL COPY
Oct 02 2023

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138	Mill Creek OPTIM CT CI Unit 8	Other Production Plant in Service	Jul-25	Mill Creek Unit 8 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U6 will be due for its 1st combustion inspection in 2022.	$ 1,803,231	$ -	$ -
139	Buck CTCC OPTIM GT12 Stator Rewedge	Other Production Plant in Service	Jun-25	Rewedge Buck Unit 12 generator stator	Generator Stator rewedge interval determined per OPTIM recommendations	$ 1,587,794	$ -	$ -
140	Buck CTCC HRSG 12 Replace Duct Burner Runners	Other Production Plant in Service	Apr-25	Replace HRSG Unit 12 duct burner runners.	Replacement of the runners/flame shields/baffles to ensure the correct flame distribution and mitigate risk of damage to tubes and liners. Upgrade the duct burner nozzles for duel fuel (natural gas/hydrogen).	$ 1,860,525	$ -	$ -
141	Buck CTCC HRSG 11 Replace Duct Burner Runners	Other Production Plant in Service	Apr-25	Replace HRSG Unit 11 duct burner runners.	Replacement of the runners/flame shields/baffles to ensure the correct flame distribution and mitigate risk of damage to tubes and liners. Upgrade the duct burner nozzles for duel fuel (natural gas/hydrogen).	$ 1,860,525	$ -	$ -
142	Buck CTCC Rebuild A Chiller Units	Other Production Plant in Service	Mar-25	Rebuild Buck CC A Chiller Units	10-year chiller rebuild to maintain unit reliability for peak summer operation	$ 1,580,730	$ -	$ -
143	Mill Creek MK06 Compressor Blade Replacement	Other Production Plant in Service	Dec-24	Replace Mill Creek Unit 6 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,329,334	$ -	$ -
144	Mill Creek OPTIM CT CI Unit 6	Other Production Plant in Service	Dec-24	Mill Creek Unit 6 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U6 will be due for its 1st combustion inspection in 2022.	$ 1,805,949	$ -	$ -
145	Dan River Cooling tower VFD install	Other Production Plant in Service	Aug-24	Install Variable Frequency Drives (VFD) on Dan River CC cooling tower motors	Current motors failing before expected life. Variable frequency drives with extend motor life and reduce number of start/stops.	$ 2,247,900	$ -	$ -
146	WS Lee CT 7C & 8C Diesel Fuel Tanks	Other Production Plant in Service	Jul-24	Install new diesel fuel tanks and unloading station as WS LEE CTs	WS Lee CT 7C and 8C serve as emergency backup units for Oconee Nuclear Station. Current diesel tank is approximately 60 years old and in need of replacement to mitigate potential environmental risk in case of a failure.	$ 7,965,375	$ -	$ -
147	Mill Creek OPTIM CT CI Unit 5	Other Production Plant in Service	May-24	Mill Creek Unit 5 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U5 will be due for its 1st combustion inspection in 2022.	$ 1,803,158	$ -	$ -
148	Belews Creek Replace Valves 2-BU-200-1 and 2	Steam Plant in Service	Jun-26	Replace both 18" special class 2500 parallel slide gate startup steam valves 2-BU-200-1 and 2-BU-200-2	Similar valve on Unit 2 (2-BU-200-2) experienced a stellite coating failure of the downstream seat ring, which resulted in a failed startup	$ 1,354,332	$ -	$ -
149	Belews Creek OPTIM HP Major Unit 2	Steam Plant in Service	May-26	High pressure turbine major outage inspection and capital component replacements	Inspection based on Unit run time evaluated by OPTIM	$ 1,266,686	$ -	$ -
150	Belews Creek OPTIM ST Valve CV/GV 1-3-5-7 U2	Steam Plant in Service	May-26	Replace/Rebuild capital components of Belews Creek Unit 2 Steam Turbine Valves	The inspection interval for these valves is based on OPTIM unit start recommendations.	$ 3,823,215	$ -	$ -
151	Cliffside CS06 Install Flyash Line Heat Ex	Steam Plant in Service	May-26	Install an electric heat exchanger to heat the air conveying the dry fly ash.	The unit 6 fly ash system is plugging at the top most elbow in the A and B lines.	$ 1,059,023	$ -	$ -
152	Marshall U3B Booster Fan Rotor Replacement	Steam Plant in Service	May-26	Replace Marshall Unit 3B Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,203,074	$ -	$ -

OFFICIAL COPY

Oct 02 2023

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153	Cliffside Replace recycle pumps A, B, D, E	Steam Plant in Service	May-26	Replace remaining scrubber recycle pumps A, B, D, E.	Recycle pumps have reached end of life and need to be replaced.	$ 3,187,347	$ -	$ -
154	Cliffside CS6 Replace Condensate Recovery	Steam Plant in Service	Apr-26	Replace Cliffside Unit 6 air heater steam coil recovery system.	Existing condensate recovery system with steam driven pumps is not reliable.	$ 1,164,801	$ -	$ -
155	Belews Creek Replace U1 Bentley Nevada equipment	Steam Plant in Service	Dec-25	Replace the Unit 1 Bentley Nevada vibration equipment with Ovation Machinery Health Monitors	The existing Bentley Nevada systems are near or past end of life. The System 1 was removed in 2020.	$ 2,982,566	$ -	$ -
156	Marshall 600V 2XA MCC Replacements	Steam Plant in Service	Dec-25	Replace Marshall Unit 2XA Motor Control Center	Existing parts are obsolete and difficult to source	$ 1,223,576	$ -	$ -
157	Cliffside U6 New ICE Shop	Steam Plant in Service	Oct-25	Construct new shop/office for Cliffside Instrumentation & Controls group	Current shop is located in Unit 5 boiler bldg. Will need to be moved to Unit 6 after Unit 5 is retired.	$ 989,408	$ -	$ -
158	Cliffside CS06 Air Comp Controls Upgrade	Steam Plant in Service	Oct-25	Upgrade Cliffside Unit 6 Air Compressor Controls from Programmable Logic Controllers (PLC) to Ovation digital controls	Allows compressor control for unit control room	$ 1,424,950	$ -	$ -
159	Marshall MS1 600V 1XA MCC Replacement	Steam Plant in Service	Oct-25	Replace Marshall Unit 1XA Motor Control Center	Existing parts are obsolete and difficult to source	$ 1,281,318	$ -	$ -
160	Belews Creek D10 Certified Rebuild 2025	Steam Plant in Service	Sep-25	Capital Rebuild of Belews Creek Coal Handling D10 bulldozer	Dozer rebuild intervals based on operating hours	$ 1,611,146	$ -	$ -
161	Marshall MS3 TUBE CLEANING REPLACEMENT	Steam Plant in Service	Aug-25	Replace Marshall Unit 3 CONDENSER TUBE CLEAING SYSTEM	The existing condenser ball cleaing system is original and has started failing	$ 1,069,419	$ -	$ -
162	Belews Creek OPTIM ST DFLP Major U1	Steam Plant in Service	May-25	Disassemble, inspect, and reassemble the Belews Creek Unit 1 "A" and "B" Double Flow Low Pressure (DFLP) Turbines	A & B Double Flow Low Pressure (DFLP) Turbines are due for a Major Inspection per OPTIM recommendations.	$ 5,381,960	$ -	$ -
163	Belews Creek OPTIM Gen MJR U1HP	Steam Plant in Service	May-25	Rewind Belews Creek U1 Generator	Rotor Windings are at the end of life. In addition, runtime hours indicates need to inspect the internals.	$ 6,938,351	$ -	$ -
164	Cliffside CS06 SCR Catalyst Replacement	Steam Plant in Service	May-25	Replace Cliffside Unit 6 SCR Catalyst Layer 1	Based on material test results, layer 1 is deactivated and needs replacement	$ 1,254,769	$ -	$ -
165	Belews Creek OPTIM ST Valve RHSVIVTVGV U1	Steam Plant in Service	May-25	Replace/Rebuild capital components of Belews Creek Unit 1 Steam Turbine Valves	The inspection interval for these valves is based on OPTIM unit start recommendations.	$ 4,394,328	$ -	$ -
166	Belews Creek Replace Valves 1-BU-200-1 and 2	Steam Plant in Service	May-25	Replace both 18" special class 2500 parallel slide gate startup steam valves 1-BU-200-1 and 1-BU-200-2	Similar valve on Unit 2 (2-BU-200-2) experienced a stellite coating failure of the downstream seat ring, which resulted in a failed startup	$ 1,224,043	$ -	$ -
167	Marshall U4A Booster Fan Rotor Replacement	Steam Plant in Service	May-25	Replace Marshall Unit 4A Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,230,643	$ -	$ -

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Oct 02 2023

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168	Belews Creek OPTIM Exciter MJR U1HP	Steam Plant in Service	May-25	Rewind BC1 HP Exciter field coils, refurbish and straighten base, rewire base, retube coolers and perform inspection of rotor	BC1 HP exciter base, wiring and field coils are 40+ years old. Field coil insulation issues are developing, which is a unit reliability risk.	$ 1,401,232	$ -	$ -
169	Cliffside CS06 add disch isolation for ARP	Steam Plant in Service	May-25	Add discharge gate valves to all Cliffside Unit 6 Absorber Recycle Pumps.	Provide on-line isolation to perform maintenance without an outage	$ 4,159,913	$ -	$ -
170	Cliffside Replace SHRH bias dampers	Steam Plant in Service	Apr-25	Replace boiler superheat and reheat bias dampers	The bearings used in the damper mechanism have had their supports removed during past outages to free the seized dampers. The dampers are no longer functional as a result of removing the bearing supports	$ 2,249,944	$ -	$ -
171	Belews Creek Replace Unit 2 Bentley Nevada equip	Steam Plant in Service	Dec-24	Replace the Unit 2 Bentley Nevada vibration equipment with Ovation Machinery Health Monitors	The existing Bentley Nevada systems are near or past end of life. The System 1 was removed in 2020.	$ 2,378,206	$ -	$ -
172	Marshall Service Building Roof Replacement	Steam Plant in Service	Nov-24	Repace Marshall Service Bldg Roof	Roof has many patches and currently leaks in several places.	$ 1,114,777	$ -	$ -
173	Cliffside CS06 B ID Fan Rotor Replacement	Steam Plant in Service	Nov-24	Replace Cliffside Unit 6 B Induced Draft fan rotor assembly	Rotor replacement interval based on run time to failure of similar fans	$ 2,580,572	$ -	$ -
174	Cliffside CS06 HPT Major & Inlet Pipe Rep	Steam Plant in Service	Nov-24	Project to replace the Cliffside Unit 6 HP Turbine Inlet Pipes (snouts) and sealing rings and perform HP turbine major inspection.	Other utilities have experienced failures of similar design HP Turbine inlet pipes and seal rings	$ 2,669,168	$ -	$ -
175	Cliffside CS06 Baghouse Bag Replacements	Steam Plant in Service	Nov-24	Replace all 21,504 filter bags in the Cliffside Unit 6 A and B baghouse	The standard life for a baghouse bag in an ash service is between 4 to 5 years.	$ 2,721,398	$ -	$ -
176	Marshall HCAD Tripper Room Transfer Chutes	Steam Plant in Service	Nov-24	Install new coal tripper room transfer chutes at Marshall	Mitigate potential combustible dust issues in tripper room	$ 1,314,686	$ -	$ -
177	Belews Creek BC2 H2 Cooler Retube and Coating	Steam Plant in Service	Oct-24	Retube the Unit 2 low pressure hydrogen coolers (4)	2022 eddy current testing found 136 tubes (15%) on the HP coolers with severe damage and 89 tubes (12%) on the LP coolers with severe damage.	$ 1,476,492	$ -	$ -
178	Marshall Replace Drinking Water Main Piping	Steam Plant in Service	Sep-24	Replace Marshall Drinking Water Main Piping	Installation of new City Water connection with water supply line	$ 1,459,248	$ -	$ -
179	Belews Creek D10 Dozer Certified Rebuild	Steam Plant in Service	Sep-24	Capital Rebuild of Belews Creek Coal Handling D10 bulldozer	Dozer rebuild intervals based on operating hours	$ 1,611,146	$ -	$ -
180	Marshall MS4 BOILER BAFFLES	Steam Plant in Service	Aug-24	INSTALL BOILER BAFFLES IN Marshall Unit 4 FURNACE TO PREVENT BOILER VIBRATION	MS4 Boiler is vibrating during all gas operation. The vibration is causing a forced derate on the unit. Need to install boiler baffles to eliminate the forced derate.	$ 1,380,793	$ -	$ -
181	Marshall 2024 MS3 SCR Catalyst Replacement	Steam Plant in Service	Jun-24	Replace Marshall Unit 3 SCR Catalyst Layer	SCR Catalyst layer replacements are based on material test samples of remaining reactivity	$ 1,653,560	$ -	$ -
182	Belews Creek BC02 SCR Catalyst Layer Replacement	Steam Plant in Service	Jun-24	Replacement of one layer of SCR catalyst on Unit 2	SCR Catalyst layer replacements are based on material test samples of remaining reactivity	$ 4,030,106	$ -	$ -

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
183	Marshall U3A Booster Fan Rotor Replacement	Steam Plant in Service	May-24	Replace Marshall Unit 3A Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,177,504	$ -	$ -
184	Cliffside OPTIM 2024 ST VALVE SVCV CS6	Steam Plant in Service	Mar-24	Replace Unit 6 Steam Turbine Capital Valves/Actuator components	Replacement interval based on historical unit start/stops to failure	$ 1,033,617	$ -	$ -
185	Marshall 1A Mill Motor Refurbishment	Steam Plant in Service	Oct-25	Rewind Marshall Unit 1A Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
186	Marshall 4A CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 4A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -
187	Marshall 4C CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 4C Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -
188	Marshall 1A ID Fan Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1A Induded Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -
189	Marshall 1B ID Fan Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1B Induded Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -
190	Marshall 1HP MG Set Exciter Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1 Motor/Generator set	MCE electrical test results indicate need for repair/rewind	$ 156,250	$ -	$ -
191	Marshall 1D Mill Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1D Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
192	Marshall 1E Mill Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1E Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
193	Marshall 1 4kV Relay System Obsolete	Steam Plant in Service	Nov-24	Replace old electromechanical relays on Marshall Unit 1 4kV breakers with electronic SEL relays.	The new relays provide additional protection and collect data for troubleshooting purposes.	$ 1,187,500	$ -	$ -
194	Marshall 4B FD Fan Motor Refurbishment	Steam Plant in Service	Jun-24	Rewind Marshall Unit 4B Forced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -
195	Marshall 4D Mill Motor Refurbishment	Steam Plant in Service	Jun-24	Rewind Marshall Unit 4D Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
196	Marshall 1A CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 1A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -
197	Marshall 2B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 2B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
198	Marshall 4B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 4B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -
199	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-23	Cliffside Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
200	Marshall Soot blower maintenance	Steam Plant in Service	Dec-23	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
201	Belews Creek Soot blower maintenance	Steam Plant in Service	Dec-24	Belews Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
202	Marshall FGD A BALL MILL LIFTING BARS	Steam Plant in Service	Dec-24	Replace Marshall Unit 1A Ball Mill Lifting Bars	Maintain reliability of FGD scrubber	$ 437,500	$ -	$ -
203	Marshall 1B Mill Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 1B Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
204	Marshall 2A ID Fan Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2A Induced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -
205	Marshall 2B ID Fan Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2B Induced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -
206	Marshall 2HP MG Set Exciter Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2 Motor/Generator set	MCE electrical test results indicate need for repair/rewind	$ 156,249	$ -	$ -
207	Marshall 3E Mill Motor Refurbishment	Steam Plant in Service	Oct-23	Rewind Marshall Unit 3E Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
208	Marshall 3F Mill Motor Refurbishment	Steam Plant in Service	Jul-23	Rewind Marshall Unit 3F Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -
209	Marshall 2A CCW Pump Rebuild/Replacement	Steam Plant in Service	Nov-23	Capital Rebuild of Marshall Unit 2A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -
210	Marshall 3C CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 3C Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -
211	Marshall 3B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 3B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -
212	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-24	Cliffside Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M
213	Marshall Soot blower maintenance	Steam Plant in Service	Dec-25	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
214	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-25	Cliffside Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
215	Marshall HDP Motor Refurbishment	Steam Plant in Service	Dec-24	Marshall Heater Drain Pump Capital Rebuild	Maintain boiler reliability	$ 200,000	$ -	$ -
216	Marshall 4B BCP Capital Rebuild	Steam Plant in Service	Nov-25	Marshall Unit 4B boiler circulating pump capital rebuild	Maintain boiler reliability	$ 375,000	$ -	$ -
217	Marshall 4A FD Fan Motor Refurbishment	Steam Plant in Service	May-24	Marshall Unit 4A forced draft fan motor capital rebuild	Maintain boiler reliability	$ 168,750	$ -	$ -
218	Marshall Soot blower maintenance	Steam Plant in Service	Nov-24	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
219	Marshall 4A BCP Capital Rebuild	Steam Plant in Service	Jan-24	Marshall Unit 4A boiler circulating pump capital rebuild	Maintain boiler reliability	$ 375,000	$ -	$ -
220	Belews Creek Soot blower maintenance	Steam Plant in Service	Dec-25	Belews Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -
221	DEC Winterization Capital Projects	Steam Plant in Service	Dec-25	Implement identified capital winterization projects	Improve unit severe cold weather reliability	$ 6,000,000	$ -	$ -
222	Belews Creek Breaker/Bus Mainteance	Steam Plant in Service	Dec-25	Belews Creek Boiler 2025 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ -
223	FERC Cedar Cliff Dam IDF Spillway&Gate House	Hydro Plant in Service	Jun-24	Capacity of the auxiliary spillway at Cedar Creek will be increased along with the installation of a fuse gate system that will allow increasing amounts of water to pass without overtopping the dam.	FERC has required that all licensees/owners of dams evaluate the ability of each of their dams to withstand and/or safety pass significant inflows from newer postulated extreme weather events (rainfall). Preliminary studies of Cedar Cliff Dam indicate insufficient means to manage inflows incrementally (spillways) as well as maximum possible flood (inflow Design Flood or IIDF).	$ 50,899,728	$ -	$ -
	TOTALS					**$ 1,111,519,492**	**$ 4,254,133**	**$ 5,899,314**

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

Walsh Supplemental Exhibit 2
Docket No. E-7, Sub 1276

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Filed Jan 2023 - Total Project Amount (System) Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Filed May 2023 - Total Project Amount (System) Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
1	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 8	Other Production Plant in Service	Nov-23	$ 16,953,177	$ -	$ 50,000	Nov-23	$ 15,397,339	$ -	$ 50,000	Project > $10M
2	OPTIM ST07 Valves 2023	Other Production Plant in Service	Nov-23	$ 1,290,776	$ -	$ 658,282	Nov-23	$ 1,282,393	$ -	$ 658,282	Overall Cost Estimate Change
3	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 9	Other Production Plant in Service	Nov-23	$ 16,954,004	$ -	$ 50,000	Nov-23	$ 16,965,629	$ -	$ 50,000	Project > $10M
4	Compressor Blade Replacement	Other Production Plant in Service	Jun-24	$ 1,102,739	$ -	$ -	Jun-24	$ 1,089,347	$ -	$ -	Overall Cost Estimate Change
5	Rockingham CT RK00 Combustion Dynamics Monitoring System (CDMS) Autotune System	Other Production Plant in Service	Oct-24	$ 3,132,146	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
6	WS Lee CC Ammonia Tank Upgrade	Other Production Plant in Service	Jul-24	$ 1,063,671	$ -	$ -	Sep-24	$ 482,366	$ -	$ -	Overall Cost Estimate Change
7	WS Lee CTs 2024 Ovation Evergreen	Other Production Plant in Service	Oct-24	$ 1,201,663	$ -	$ -	Oct-24	$ 1,020,881	$ -	$ -	Overall Cost Estimate Change
8	BUCK CC Unit Flex Enhancement Prjts	Other Production Plant in Service	Dec-25	$ 1,257,982	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
9	Dan River DR08 OpFlex Fast Start	Other Production Plant in Service	Oct-25	$ 1,167,783	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
10	Dan River DR09 OpFlex Fast Start	Other Production Plant in Service	Oct-25	$ 1,167,783	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
11	CC Cycling Project GMA	Other Production Plant in Service	Dec-25	$ 695,000	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
12	CC Cycling Project GMA	Other Production Plant in Service	Dec-25	$ 695,000	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
13	Ovation Evergreen Upgrade	Other Production Plant in Service	Dec-25	$ 1,584,656	$ -	$ -	Dec-25	$ 1,585,327	$ -	$ -	Overall Cost Estimate Change
14	Mill Creek CT - Replace U1-8 Turbine Controls	Other Production Plant in Service	Nov-25	$ 2,525,572	$ -	$ -	Nov-25	$ 5,191,504	$ -	$ -	Overall Cost Estimate Change
15	WS Lee CC Spare GSU Containment	Other Production Plant in Service	Aug-25	$ 1,578,351	$ -	$ -	Aug-25	$ 1,604,642	$ -	$ -	Overall Cost Estimate Change
16	Buck CC Oily Water Separator (OWS) Replacement	Other Production Plant in Service	Dec-26	$ 2,734,154	$ -	$ -	Dec-26	$ 2,740,494	$ -	$ -	Overall Cost Estimate Change
17	DRCC Unit Flex Enhancement Projects	Other Production Plant in Service	Dec-26	$ 1,257,982	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
18	Rockingham CT RK02 Gen Stator and Rotor Rewind	Other Production Plant in Service	May-26	$ 6,022,971	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
19	Rockingham CT RK04 Gen Stator and Rotor Rewind	Other Production Plant in Service	Nov-26	$ 6,094,155	$ -	$ -	May-25	$ 3,210,846	$ -	$ -	Overall Cost Estimate Change
20	Rockingham CT RK05 Gen Stator and Rotor Rewind	Other Production Plant in Service	Mar-26	$ 6,005,878	$ -	$ -	Sep-26	$ 3,232,328	$ -	$ -	Overall Cost Estimate Change
21	WS Lee CC LS11 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	$ 1,643,821	$ -	$ -	Nov-26	$ 1,643,324	$ -	$ -	Overall Cost Estimate Change
22	WS Lee CC LS12 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	$ 1,643,821	$ -	$ -	Nov-26	$ 1,643,324	$ -	$ -	Overall Cost Estimate Change
23	WS Lee CC Unit Flex Enhancement Prjcts	Other Production Plant in Service	Oct-26	$ 2,103,915	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
24	WS Lee CC WSL U12 OPTIM LTSA MAJOR	Other Production Plant in Service	Nov-26	$ 20,069,758	$ -	$ 3,288,157		$ -	$ -	$ -	Project Canceled/Removed
25	WS Lee CC WSL U11 OPTIM LTSA MAJOR	Other Production Plant in Service	Nov-26	$ 20,069,758	$ -	$ 3,288,157		$ -	$ -	$ -	Project Canceled/Removed
26	WS Lee CT 7C and 8C Spare GSU Containment	Other Production Plant in Service	Aug-26	$ 1,885,369	$ -	$ -	Aug-26	$ 1,857,920	$ -	$ -	Overall Cost Estimate Change
27	Clemson Hydrogen Project (CHP) H2 Project	Other Production Plant in Service	Jul-26	$ 59,386,417	$ -	$ -	Jul-26	$ 61,180,474	$ -	$ -	Project > $10M
28	Bad Creek U4 MW Uprate	Hydro Plant in Service	Jan-24	$ 31,504,390	$ -	$ -	Feb-24	$ 31,528,994	$ -	$ -	Project > $10M
29	Cowans Ford Bank 2 GSU Replacement	Hydro Plant in Service	Sep-23	$ 3,469,118	$ -	$ -	Nov-24	$ 6,004,238	$ -	$ -	Overall Cost Estimate Change
30	Jocassee Station Motor Control Center	Hydro Plant in Service	Jan-24	$ 1,877,543	$ -	$ -	Sep-24	$ 3,264,697	$ -	$ -	Overall Cost Estimate Change
31	FERC WA Flood Management	Hydro Plant in Service	Dec-23	$ 30,019,959	$ -	$ -	Feb-24	$ 28,865,723	$ -	$ -	Project > $10M
32	Rhodhiss Spillway Debris Gate	Hydro Plant in Service	Jun-24	$ 3,628,878	$ -	$ -	Dec-24	$ 3,782,782	$ -	$ -	Overall Cost Estimate Change
33	FERC Fishing Creek Floodgate Life Exten Ph II	Hydro Plant in Service	Sep-24	$ 15,960,856	$ -	$ -	Jul-25	$ 15,840,428	$ -	$ -	Project > $10M
34	Great Falls Replace Headworks Rake and Racks	Hydro Plant in Service	Sep-24	$ 2,138,210	$ -	$ -	Oct-25	$ 3,637,288	$ -	$ -	Overall Cost Estimate Change

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				Supplemental Update Criteria
			Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	
35	Cedar Cliff Civil Life Ext HeadTailra Gates	Hydro Plant in Service	Dec-24	$ 2,684,321	$ -	$ -	Dec-24	$ 2,218,445	$ -	$ -	Overall Cost Estimate Change
36	Cedar Cliff Install Turbine Inlet Valve	Hydro Plant in Service	Dec-24	$ 2,906,533	$ -	$ -	Dec-24	$ 4,154,686	$ -	$ -	Overall Cost Estimate Change
37	FERC Cowans Ford Stumpy Creek Access Area	Hydro Plant in Service	Dec-24	$ 2,166,986	$ -	$ -	Dec-24	$ 2,161,877	$ -	$ -	Overall Cost Estimate Change
38	Fishing Creek Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-26	$ 1,500,302	$ -	$ -	Dec-25	$ 1,365,071	$ -	$ -	Overall Cost Estimate Change
39	Jocassee Exterior Life Extension	Hydro Plant in Service	Dec-24	$ 19,731,322	$ -	$ -	Dec-24	$ 19,503,649	$ -	$ -	Project > $10M
40	Jocassee U1 U2 Motor Control Center	Hydro Plant in Service	Dec-24	$ 1,600,695	$ -	$ -	Dec-28	$ -	$ -	$ -	Project Canceled/Removed
41	NA GSU Transformer Replacement	Hydro Plant in Service	Dec-24	$ 3,153,075	$ -	$ -	Jan-26	$ 5,561,206	$ -	$ -	Overall Cost Estimate Change
42	Oxford OX Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-24	$ 1,047,103	$ -	$ -	Dec-24	$ 719,857	$ -	$ -	Overall Cost Estimate Change
43	Rhodhiss RH Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-24	$ 1,036,822	$ -	$ -	May-28	$ -	$ -	$ -	Project Canceled/Removed
44	FERC Lookout Shoals Upper Access Area	Hydro Plant in Service	Feb-25	$ 2,805,842	$ -	$ -	Sep-25	$ 2,806,995	$ -	$ -	Overall Cost Estimate Change
45	Lookout Shoals Replace Jr Generator Headgate	Hydro Plant in Service	May-25	$ 1,113,714	$ -	$ -	May-25	$ 1,113,554	$ -	$ -	Overall Cost Estimate Change
46	Cedar Cliff Electrical Life Extension	Hydro Plant in Service	May-25	$ 3,565,262	$ -	$ -	May-26	$ 3,634,331	$ -	$ -	Overall Cost Estimate Change
47	Cedar Cliff Mechanical Life Extension	Hydro Plant in Service	May-25	$ 6,678,647	$ -	$ -	May-27	$ -	$ -	$ -	Project Canceled/Removed
48	Cedar Cliff Generator Stator Rewind	Hydro Plant in Service	May-25	$ 2,596,459	$ -	$ -	Oct-27	$ -	$ -	$ -	Project Canceled/Removed
49	Cedar Creek Replace 9070 to 3i Controls	Hydro Plant in Service	May-25	$ 1,224,384	$ -	$ -	Sep-26	$ 1,891,773	$ -	$ -	Overall Cost Estimate Change
50	Bad Creek Unit Transformers Loadcenters	Hydro Plant in Service	Jul-25	$ 2,630,166	$ -	$ -	Sep-25	$ 2,700,772	$ -	$ -	Overall Cost Estimate Change
51	Fishing Creek U2 Replace Turbine Gate Casing	Hydro Plant in Service	Jul-25	$ 7,049,591	$ -	$ -	Jul-26	$ 6,774,346	$ -	$ -	Overall Cost Estimate Change
52	Fishing Creek U3 Headgate Replacement	Hydro Plant in Service	Aug-25	$ 2,286,314	$ -	$ -	Dec-25	$ 2,501,207	$ -	$ -	Overall Cost Estimate Change
53	FERC Great Falls Pedestrian Bridge	Hydro Plant in Service	Sep-25	$ 4,688,763	$ -	$ -	Sep-25	$ 4,688,763	$ -	$ -	Overall Cost Estimate Change
54	Mountain Island Replace 9070 Controls	Hydro Plant in Service	Sep-25	$ 1,291,761	$ -	$ -	Sep-25	$ 1,755,151	$ -	$ -	Overall Cost Estimate Change
55	Jocassee Replace 9070 Controls	Hydro Plant in Service	Nov-25	$ 2,722,207	$ -	$ -	Nov-26	$ 2,500,665	$ -	$ -	Overall Cost Estimate Change
56	Lookout Shoals Repl Jr Generator Penstock Liner	Hydro Plant in Service	Dec-25	$ 1,011,925	$ -	$ -	Dec-25	$ 1,013,555	$ -	$ -	Overall Cost Estimate Change
57	FERC Bridgewater Fonta Flora Access Area	Hydro Plant in Service	Dec-25	$ 3,777,616	$ -	$ -	Dec-25	$ 3,786,845	$ -	$ -	Overall Cost Estimate Change
58	Jocassee DFSP Ramp Replacement	Hydro Plant in Service	Dec-25	$ 1,739,296	$ -	$ -	Dec-25	$ 1,743,125	$ -	$ -	Overall Cost Estimate Change
59	Jocassee U3 U4 Motor Control Center	Hydro Plant in Service	Dec-25	$ 1,626,782	$ -	$ -	Dec-28	$ -	$ -	$ -	Project Canceled/Removed
60	FERC Moutain Island Riverbend Access Area	Hydro Plant in Service	Dec-25	$ 5,108,386	$ -	$ -	Dec-25	$ 5,120,861	$ -	$ -	Overall Cost Estimate Change
61	FERC Oxford Spillway Piers Bulkhead	Hydro Plant in Service	Dec-25	$ 17,304,036	$ -	$ -	Jun-25	$ 32,303,359	$ -	$ -	Project > $10M
62	Oxford Replace Spillway Gantry Girders	Hydro Plant in Service	Dec-25	$ 6,465,101	$ -	$ -	Mar-26	$ 15,095,452	$ -	$ -	Project > $10M
63	FERC Oxford Gate Guides for Floodgates	Hydro Plant in Service	Dec-25	$ 6,993,715	$ -	$ -	Mar-26	$ 6,716,860	$ -	$ -	Overall Cost Estimate Change
64	Thorpe Hydro Generator Replacement	Hydro Plant in Service	Dec-25	$ 2,979,922	$ -	$ -	Dec-25	$ 15,437,920	$ -	$ -	Project > $10M
65	FERC Wateree Taylor Creek Bank Fishing	Hydro Plant in Service	Dec-25	$ 1,160,704	$ -	$ -	Dec-25	$ 1,158,721	$ -	$ -	Overall Cost Estimate Change
66	Wylie Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-25	$ 1,057,548	$ -	$ -	Apr-27	$ -	$ -	$ -	Project Canceled/Removed
67	Nantahala Hydro Tainter Gate Hoist Replacements	Hydro Plant in Service	Jan-26	$ 3,342,718	$ -	$ -	Dec-27	$ -	$ -	$ -	Project Canceled/Removed
68	Thorpe Hydro GSU Replacement	Hydro Plant in Service	Mar-26	$ 6,305,509	$ -	$ -	Mar-27	$ -	$ -	$ -	Project Canceled/Removed
69	FERC Linville Canoe Kayak Access Area	Hydro Plant in Service	Jun-26	$ 1,387,194	$ -	$ -	Jun-26	$ 1,388,199	$ -	$ -	Overall Cost Estimate Change
70	Bridgewater Replace 9070 to 3i Controls	Hydro Plant in Service	Jun-26	$ 1,004,630	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

OFFICIAL COPY
Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Filed Jan 2023 - Total Project Amount (System)				Filed May 2023 - Total Project Amount (System)				Supplemental Update Criteria
			Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	
71	FERC Thorpe Hydro Trout Crk Pipeline Coatings	Hydro Plant in Service	Jul-26	$ 1,648,954	$ -	$ -	Jul-26	$ 1,650,747	$ -	$ -	Overall Cost Estimate Change
72	Fishing Creek U4 Headgate Replacement	Hydro Plant in Service	Aug-26	$ 1,862,805	$ -	$ -	Aug-26	$ 1,865,580	$ -	$ -	Overall Cost Estimate Change
73	Fishing Creek U5 Headgate Replacement	Hydro Plant in Service	Aug-26	$ 1,862,805	$ -	$ -	Aug-26	$ 1,865,580	$ -	$ -	Overall Cost Estimate Change
74	Wateree U1 Wear Ring Replacement	Hydro Plant in Service	Oct-26	$ 2,961,948	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
75	Wateree U2 Wear Ring Replacement	Hydro Plant in Service	Oct-26	$ 1,595,405	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
76	Mountain Island U3 Trash Racks Stop Logs System	Hydro Plant in Service	Dec-26	$ 5,400,695	$ -	$ -	Jul-24	$ 4,729,996	$ -	$ -	Overall Cost Estimate Change
77	Bad Creek U1 Replace Control System	Hydro Plant in Service	Dec-26	$ 4,545,182	$ -	$ 657,570	Aug-26	$ 4,548,204	$ -	$ 657,570	Overall Cost Estimate Change
78	Bad Creek U2 Replace Control System	Hydro Plant in Service	Dec-26	$ 1,537,280	$ -	$ -	Dec-26	$ 1,537,476	$ -	$ -	Overall Cost Estimate Change
79	Bad Creek U3 Replace Control System	Hydro Plant in Service	Dec-26	$ 1,537,279	$ -	$ -	Dec-26	$ 1,537,476	$ -	$ -	Overall Cost Estimate Change
80	Bad Creek U4 Replace Control System	Hydro Plant in Service	Dec-26	$ 1,537,280	$ -	$ -	May-27	$ -	$ -	$ -	Project Canceled/Removed
81	FERC Bridgewater Pocket Park At Dam LJ Loop	Hydro Plant in Service	Dec-26	$ 2,402,249	$ -	$ -	Dec-26	$ 2,405,361	$ -	$ -	Overall Cost Estimate Change
82	Fishing Creek U3 Replace Wear Rings	Hydro Plant in Service	Dec-26	$ 1,146,481	$ -	$ -	Dec-26	$ 1,135,678	$ -	$ -	Overall Cost Estimate Change
83	Jocassee Warehouse Replace Siding Roof	Hydro Plant in Service	Dec-26	$ 1,296,456	$ -	$ -	Dec-26	$ 1,298,164	$ -	$ -	Overall Cost Estimate Change
84	Ninety Nine Island U4 Turbine Runner Replacement	Hydro Plant in Service	Dec-26	$ 9,157,859	$ -	$ -	Dec-27	$ -	$ -	$ -	Project Canceled/Removed
85	Oxford U2 Replace Mandoors	Hydro Plant in Service	Dec-26	$ 1,042,362	$ -	$ -	Dec-26	$ 1,042,907	$ -	$ -	Overall Cost Estimate Change
86	HCA Dust BC23 Conv Trans Repl	Steam Plant in Service	Dec-23	$ 1,840,046	$ -	$ -	Dec-23	$ 1,840,330	$ -	$ -	Overall Cost Estimate Change
87	Marshall - Replace Fuel Handling Trnsfr 2024	Steam Plant in Service	Nov-24	$ 2,428,161	$ -	$ -	Nov-25	$ 2,377,042	$ -	$ -	Other Significant Developments
88	HCA Transfer House Wash Down	Steam Plant in Service	Nov-23	$ 1,590,146	$ -	$ -	Nov-23	$ 1,518,636	$ -	$ -	Overall Cost Estimate Change
89	Marshall - Replace Fuel Handling Trnsfr 2025	Steam Plant in Service	Nov-25	$ 2,625,469	$ -	$ -	Nov-26	$ 2,625,605	$ -	$ -	Other Significant Developments
90	Marshall Aux Boiler	Steam Plant in Service	Oct-26	$ 12,696,667	$ -	$ -	Feb-26	$ 12,169,850	$ -	$ -	Project > $10M
91	Marshall Coal Blending PLC Replacement	Steam Plant in Service	Dec-23	$ 1,332,432	$ -	$ -	Dec-23	$ 1,332,301	$ -	$ -	Overall Cost Estimate Change
92	Marshall Common Boiler Outage - Coal (2023)	Steam Plant in Service	Dec-23	$ 1,781,250	$ -	$ 4,475,000		$ -	$ -	$ -	Project Canceled/Removed
93	OPTIM ST Valve RHSVIVTVGV U2	Steam Plant in Service	May-24	$ 4,587,937	$ -	$ 282,745	May-24	$ 4,513,478	$ -	$ 282,745	Overall Cost Estimate Change
94	HCA DustBC 6A6D Vibratory Fdrs	Steam Plant in Service	Dec-24	$ 1,896,384	$ -	$ -	Dec-24	$ 1,899,900	$ -	$ -	Overall Cost Estimate Change
95	Marshall Common Boiler Outage - Coal (2024)	Steam Plant in Service	Dec-24	$ 6,131,250	$ -	$ 3,438,655		$ -	$ -	$ -	Project Canceled/Removed
96	Marshall Common Boiler Outage - Coal (2025)	Steam Plant in Service	Dec-25	$ 525,000	$ -	$ 1,925,000		$ -	$ -	$ -	Project Canceled/Removed
97	Marshall Crusher Motor Chillers Alt Feed	Steam Plant in Service	Sep-23	$ 1,303,455	$ -	$ -	Sep-23	$ 1,471,620	$ -	$ -	Overall Cost Estimate Change
98	Marshall MS01 600V 1XS MCC Replacement	Steam Plant in Service	Oct-24	$ 959,945	$ -	$ -	Oct-24	$ 954,590	$ -	$ -	Overall Cost Estimate Change
99	Marshall MS1 600V 1XD MCC Replacement	Steam Plant in Service	Oct-25	$ 999,352	$ -	$ -	Oct-25	$ 994,169	$ -	$ -	Overall Cost Estimate Change
100	Marshall MS1 MSU Transf Cooler and Pump	Steam Plant in Service	Oct-24	$ 1,561,748	$ -	$ -	Oct-24	$ 974,000	$ -	$ -	Overall Cost Estimate Change
101	Marshall MS2 4kV Relay System replacement	Steam Plant in Service	Oct-25	$ 964,159	$ -	$ -	Oct-25	$ 960,042	$ -	$ -	Overall Cost Estimate Change
102	HCA DustBC 1 Head Chute Repl	Steam Plant in Service	Aug-25	$ 1,517,307	$ -	$ -	Aug-25	$ 1,513,088	$ -	$ -	Overall Cost Estimate Change
103	Belews Creek BC01 SCR Catalyst Replacement	Steam Plant in Service	May-25	$ 2,752,086	$ -	$ -	May-25	$ 3,181,664	$ -	$ -	Overall Cost Estimate Change

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

OFFICIAL COPY
Oct 02 2023

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104	Marshall MS2 MSU Xfrmr Cooler and Pump	Steam Plant in Service	Nov-25	$ 1,625,475	$ -	$ -	Nov-24	$ 974,000	$ -	$ -	Other Significant Developments
105	Marshall MS3 Blr SH Pend Pla Asbly	Steam Plant in Service	May-26	$ 11,068,510	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
106	Marshall MS3 Centerwall Replacement	Steam Plant in Service	May-26	$ 11,426,102	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
107	Marshall MS3 FD Fan Bearing Oil System	Steam Plant in Service	May-24	$ 910,430	$ -	$ -	Apr-24	$ 790,478	$ -	$ -	Overall Cost Estimate Change
108	Cliffside CS06 Template Turbine MajorValve	Steam Plant in Service	May-26	$ 3,428,418	$ -	$ -	May-26	$ 474,525	$ -	$ -	Overall Cost Estimate Change
109	Belews Creek BC FGD Lighting Replacement	Steam Plant in Service	Sep-26	$ 2,198,093	$ -	$ -	Sep-26	$ 2,212,121	$ -	$ -	Overall Cost Estimate Change
110	OPTIM Exciter MJR U2HP	Steam Plant in Service	Jun-26	$ 2,066,233	$ -	$ -	Jun-26	$ 2,209,702	$ -	$ -	Overall Cost Estimate Change
111	OPTIM Exciter MJR U2LP	Steam Plant in Service	May-26	$ 1,192,693	$ -	$ 738,524		$ -	$ -	$ -	Project Canceled/Removed
112	HCA Dust BC 6C7C6D7D Transfer	Steam Plant in Service	Dec-26	$ 2,727,437	$ -	$ -	Dec-26	$ 2,793,126	$ -	$ -	Overall Cost Estimate Change
113	Marshall MS3 Retube Condenser	Steam Plant in Service	Jun-25	$ 4,995,222	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
114	Marshall MS3 SH Division Panel Assembly	Steam Plant in Service	May-26	$ 12,533,431	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
115	Marshall MS4 APH REPL	Steam Plant in Service	May-26	$ 5,922,883	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
116	Marshall MS4 BCP Valve Replacement	Steam Plant in Service	Jun-26	$ 2,080,404	$ -	$ -	Jun-26	$ 2,081,793	$ -	$ -	Overall Cost Estimate Change
117	Marshall MS4 Condenser Retube	Steam Plant in Service	Jun-26	$ 6,364,856	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
118	Marshall MS4 FD Fan Bearing Oil System	Steam Plant in Service	Apr-24	$ 936,837	$ -	$ -	Apr-24	$ 936,919	$ -	$ -	Overall Cost Estimate Change
119	Marshall MS4 ID fan motor LCI replacement	Steam Plant in Service	Jun-24	$ 7,210,208	$ -	$ -	Jun-24	$ 2,498,280	$ -	$ -	Overall Cost Estimate Change
120	Marshall MS4 replace ME in absorber tank	Steam Plant in Service	Dec-26	$ 1,169,550	$ -	$ -	Dec-26	$ 1,154,891	$ -	$ -	Overall Cost Estimate Change
121	OPTIM ST Valve CRV MS4	Steam Plant in Service	Jun-26	$ 2,193,145	$ -	$ 81,008	Jun-26	$ 2,146,113	$ -	$ 81,008	Overall Cost Estimate Change
122	Marshall Station - Replace #3 chiller and air handling unit (AHU).	Steam Plant in Service	Dec-23	$ 951,160	$ -	$ -	Dec-23	$ 948,385	$ -	$ -	Overall Cost Estimate Change
123	FERC Cedar Cliff Dam IDF Spillway&Gate House	Hydro Plant in Service	Jul-24	$ 170,569,964	$ -	$ -	Jun-24	$ 50,899,728	$ -	$ -	Project > $10M
124	Lincoln CT 17	Other Production Plant in Service	Nov-24	$ 183,882,453	$ 4,254,133	$ -	Jan-24	$ 172,452,383	$ 4,254,133	$ -	Project > $10M
125	FERC Mountain Island Dam Seismic	Transmission Plant in Service Hydro Plant in Service	Jan-26	$ 89,326,498	$ -	$ -	Feb-26	$ 85,382,811	$ -	$ -	Project > $10M
126	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Steam Plant in Service	Dec-24	$ 1,638,890	$ -	$ -	Dec-24	$ 1,642,431	$ -	$ -	Overall Cost Estimate Change
127	Replace Filtered Water Riser - Marshall	Steam Plant in Service	Nov-23	$ 2,051,863	$ -	$ -	Nov-23	$ 2,008,268	$ -	$ -	Overall Cost Estimate Change
128	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Steam Plant in Service	Sep-26	$ 2,541,562	$ -	$ -	Sep-26	$ 2,543,638	$ -	$ -	Overall Cost Estimate Change
129	Cliffside Boiler Outage - Coal (2023)	Steam Plant in Service	Dec-23	$ 150,000	$ -	$ 1,400,000		$ -	$ -	$ -	Project Canceled/Removed
130	Cliffside Boiler Outage - Coal (2024)	Steam Plant in Service	Dec-24	$ 150,000	$ -	$ 1,302,958		$ -	$ -	$ -	Project Canceled/Removed
131	Cliffside Boiler Outage - Coal (2025)	Steam Plant in Service	Dec-25	$ 150,000	$ -	$ 400,000		$ -	$ -	$ -	Project Canceled/Removed
132	Belews Creek Boiler Outage - Coal (2023)	Steam Plant in Service	Dec-23	$ 150,000	$ -	$ 2,400,000		$ -	$ -	$ -	Project Canceled/Removed
133	Belews Creek Boiler Outage - Coal (2024)	Steam Plant in Service	Dec-24	$ 150,000	$ -	$ 2,769,412		$ -	$ -	$ -	Project Canceled/Removed
134	Belews Creek Boiler Outage - Coal (2025)	Steam Plant in Service	Dec-25	$ 150,000	$ -	$ 400,000		$ -	$ -	$ -	Project Canceled/Removed
135	WSL Unit 11 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	$ 4,928,024	$ -	$ -	Nov-26	$ 8,121,244	$ -	$ -	Overall Cost Estimate Change
136	WSL Unit 12 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	$ 4,928,024	$ -	$ -	Nov-26	$ 8,121,244	$ -	$ -	Overall Cost Estimate Change

OFFICIAL COPY
Oct 02 2023

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137	Buck BK11 OpFlex Fast Start	Other Production Plant in Service	Oct-25	$ 1,167,783	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
138	Buck BK12 OpFlex Fast Start	Other Production Plant in Service	Oct-25	$ 1,167,783	$ -	$ -		$ -	$ -	$ -	Project Canceled/Removed
139	Rockingham CT RK01 Gen Stator and Rotor Rewind	Other Production Plant in Service	Nov-25	$ 6,020,000	$ -	$ -	Nov-26	$ 2,869,863	$ -	$ -	Overall Cost Estimate Change
140	Rockingham CT RK03 Gen Stator and Rotor Rewind	Other Production Plant in Service	Nov-25	$ 6,020,000	$ -	$ -	Oct-25	$ 3,278,299	$ -	$ -	Overall Cost Estimate Change
141	Replace Marshall Unit 2 Air Preheater (APH) baskets	Steam Plant in Service	Dec-23	$ 3,728,617	$ -	$ -	Dec-23	$ 4,010,213	$ -	$ -	Overall Cost Estimate Change
142	FERC Lookout Shoals Seismic Net Proj	Hydro Plant in Service					Nov-23	$ 60,602,062	$ -	$ -	Project Added
143	Tennessee Creek Wolf Creek Replace Intake Hoist	Hydro Plant in Service					Dec-26	$ 1,670,400	$ -	$ -	Project Added
144	Wateree Bank 3 GSU Replacement	Hydro Plant in Service					Dec-26	$ 3,756,303	$ -	$ -	Project Added
145	Wateree Bank 2 GSU Replacement	Hydro Plant in Service					Jun-26	$ 3,747,014	$ -	$ -	Project Added
146	Cedar Creek Stumpy Pond Access Area Upgrades	Hydro Plant in Service					Apr-26	$ 2,440,439	$ -	$ -	Project Added
147	FERC Bridgewater YANCEY ROAD ACCESS AREA	Hydro Plant in Service					Dec-25	$ 1,860,073	$ -	$ -	Project Added
148	Cedar Creek Floodgate Refurbishment	Hydro Plant in Service					Dec-25	$ 2,220,830	$ -	$ -	Project Added
149	Wateree Bank 1 GSU Replacement	Hydro Plant in Service					Dec-25	$ 3,756,921	$ -	$ -	Project Added
150	FERC Lower Great Fals lReserve CanKay Launch	Hydro Plant in Service					Sep-25	$ 1,594,440	$ -	$ -	Project Added
151	Bear Creek Generator Rewind	Hydro Plant in Service					Sep-25	$ 2,721,618	$ -	$ -	Project Added
152	Nantahala U1 Spare Runner	Hydro Plant in Service					Aug-25	$ 2,849,301	$ -	$ -	Project Added
153	Wateree Bank 4 GSU Replacement	Hydro Plant in Service					Jun-25	$ 3,747,014	$ -	$ -	Project Added
154	Cowans Ford Ramsey Creek Boat Ramp Replace	Hydro Plant in Service					Apr-25	$ 1,444,620	$ -	$ -	Project Added
155	FERC Queens Creek PMF Wall Raise Dam Crest	Hydro Plant in Service					Apr-25	$ 1,691,451	$ -	$ -	Project Added
156	Bad Creek Tie Back Wall Anchor System	Hydro Plant in Service					Mar-25	$ 3,545,335	$ -	$ -	Project Added
157	Mt. Island U4 Trash Racks Stop Logs System	Hydro Plant in Service					Feb-25	$ 4,802,504	$ -	$ -	Project Added
158	Lookout Shoals Service Water PVC Replacement	Hydro Plant in Service					Dec-24	$ 1,063,021	$ -	$ -	Project Added
159	Queens Creek Replace GSU ENV	Hydro Plant in Service					Dec-24	$ 2,376,929	$ -	$ -	Project Added
160	Wylie Service Water PVC Replacement	Hydro Plant in Service					Aug-24	$ 1,193,965	$ -	$ -	Project Added
161	Bear Creek Turbine Runner Replacement	Hydro Plant in Service					Jun-24	$ 2,258,000	$ -	$ -	Project Added
162	Wateree Service Water PVC Replacement	Hydro Plant in Service					Mar-24	$ 1,143,996	$ -	$ -	Project Added
163	FERC Ninety Nine Island PICKHILL RECONFIGURATION	Hydro Plant in Service					Mar-24	$ 1,450,335	$ -	$ -	Project Added
164	FERC Cowans Ford Beattys Ford Swim Area	Hydro Plant in Service					Feb-24	$ 4,297,668	$ -	$ -	Project Added
165	Jocassee Install AHU 1-5 Chillers WC Sys	Hydro Plant in Service					Feb-24	$ 4,582,787	$ -	$ -	Project Added
166	Bad Creek T/L Expansion Land Purchase	Hydro Plant in Service					Mar-24	$ 10,698,500	$ -	$ -	Project Added
167	Lincoln CT Exhaust Plenum Rplmt - 2026	Other Production Plant in Service					Dec-26	$ 1,438,562	$ -	$ -	Project Added
168	WS Lee 2026 CT12 LTSA	Other Production Plant in Service					Nov-26	$ 20,151,637	$ -	$ 1,484,507	Project Added
169	Rockingham CT OPTIM HGP Unit 1	Other Production Plant in Service					Nov-26	$ 9,298,814	$ -	$ -	Project Added
170	Rockingham CT OPTIM HGP Unit 5	Other Production Plant in Service					Nov-26	$ 8,559,091	$ -	$ -	Project Added
171	WS Lee 2026 CT11 LTSA	Other Production Plant in Service					Sep-26	$ 19,827,329	$ -	$ 1,445,149	Project Added
172	WS Lee OPTIM ST10 Valves 2026	Other Production Plant in Service					Jun-26	$ 2,026,826	$ -	$ 1,190,054	Project Added
173	BKCC Ovation Evergreen	Other Production Plant in Service					Mar-26	$ 1,538,725	$ -	$ -	Project Added
174	Buck CTCC Rebuild B Chiller Units	Other Production Plant in Service					Mar-26	$ 1,580,730	$ -	$ -	Project Added
175	DEC CT/CC Digital Automation	Other Production Plant in Service					Dec-25	$ 4,764,054	$ -	$ -	Project Added
176	Lincoln CT Exhaust Plenum Rplmt - 2025	Other Production Plant in Service					Dec-25	$ 1,438,562	$ -	$ -	Project Added
177	Mill Creek OPTIM CT CI Unit 7	Other Production Plant in Service					Nov-25	$ 1,805,892	$ -	$ -	Project Added
178	Mill Creek MK08 Compressor Blade Replacement	Other Production Plant in Service					Nov-25	$ 1,328,158	$ -	$ -	Project Added
179	Mill Creek MK07 Compressor Blade Replacement	Other Production Plant in Service					Nov-25	$ 1,327,229	$ -	$ -	Project Added
180	Buck CTCC OPTIM GT11 Stator Rewedge	Other Production Plant in Service					Sep-25	$ 1,592,499	$ -	$ -	Project Added
181	Mill Creek OPTIM CT CI Unit 8	Other Production Plant in Service					Jul-25	$ 1,803,231	$ -	$ -	Project Added
182	Buck CTCC OPTIM GT12 Stator Rewedge	Other Production Plant in Service					Jun-25	$ 1,587,794	$ -	$ -	Project Added
183	Buck CTCC HRSG 12 Replace Duct Burner Runners	Other Production Plant in Service					Apr-25	$ 1,860,525	$ -	$ -	Project Added
184	Buck CTCC HRSG 11 Replace Duct Burner Runners	Other Production Plant in Service					Apr-25	$ 1,860,525	$ -	$ -	Project Added

OFFICIAL COPY
Oct 02 2023

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185	Buck CTCC Rebuild A Chiller Units	Other Production Plant in Service					Mar-25	$ 1,580,730	$ -	$ -	Project Added
186	Mill Creek MK06 Compressor Blade Replacement	Other Production Plant in Service					Dec-24	$ 1,329,334	$ -	$ -	Project Added
187	Mill Creek OPTIM CT CI Unit 6	Other Production Plant in Service					Dec-24	$ 1,805,949	$ -	$ -	Project Added
188	Dan River Cooling tower VFD install	Other Production Plant in Service					Aug-24	$ 2,247,900	$ -	$ -	Project Added
189	WS Lee CT 7C & 8C Diesel Fuel Tanks	Other Production Plant in Service					Jul-24	$ 7,965,375	$ -	$ -	Project Added
190	Mill Creek OPTIM CT CI Unit 5	Other Production Plant in Service					May-24	$ 1,803,158	$ -	$ -	Project Added
191	Belews Creek Replace Valves 2-BU-200-1 and 2	Steam Plant in Service					Jun-26	$ 1,354,332	$ -	$ -	Project Added
192	Belews Creek OPTIM HP Major Unit 2	Steam Plant in Service					May-26	$ 1,266,686	$ -	$ -	Project Added
193	Belews Creek OPTIM ST Valve CV/GV 1-3-5-7 U2	Steam Plant in Service					May-26	$ 3,823,215	$ -	$ -	Project Added
194	Cliffside CS06 Install Flyash Line Heat Ex	Steam Plant in Service					May-26	$ 1,059,023	$ -	$ -	Project Added
195	Marshall U3B Booster Fan Rotor Replacement	Steam Plant in Service					May-26	$ 1,203,074	$ -	$ -	Project Added
196	Cliffside Replace recycle pumps A, B, D, E	Steam Plant in Service					May-26	$ 3,187,347	$ -	$ -	Project Added
197	Cliffside CS6 Replace Condensate Recovery	Steam Plant in Service					Apr-26	$ 1,164,801	$ -	$ -	Project Added
198	Belews Creek Replace U1 Bentley Nevada equipment	Steam Plant in Service					Dec-25	$ 2,982,566	$ -	$ -	Project Added
199	Marshall 600V 2XA MCC Replacements	Steam Plant in Service					Dec-25	$ 1,223,576	$ -	$ -	Project Added
200	Cliffside U6 New ICE Shop	Steam Plant in Service					Oct-25	$ 989,408	$ -	$ -	Project Added
201	Cliffside CS06 Air Comp Controls Upgrade	Steam Plant in Service					Oct-25	$ 1,424,950	$ -	$ -	Project Added
202	Marshall MS1 600V 1XA MCC Replacement	Steam Plant in Service					Oct-25	$ 1,281,318	$ -	$ -	Project Added
203	Belews Creek D10 Certified Rebuild 2025	Steam Plant in Service					Sep-25	$ 1,611,146	$ -	$ -	Project Added
204	Marshall MS3 TUBE CLEANING REPLACEMENT	Steam Plant in Service					Aug-25	$ 1,069,419	$ -	$ -	Project Added
205	Belews Creek OPTIM ST DFLP Major U1	Steam Plant in Service					May-25	$ 5,381,960	$ -	$ -	Project Added
206	Belews Creek OPTIM Gen MJR U1HP	Steam Plant in Service					May-25	$ 6,938,351	$ -	$ -	Project Added
207	Cliffside CS06 SCR Catalyst Replacement	Steam Plant in Service					May-25	$ 1,254,769	$ -	$ -	Project Added
208	Belews Creek OPTIM ST Valve RHSVIVTVGV U1	Steam Plant in Service					May-25	$ 4,394,328	$ -	$ -	Project Added
209	Belews Creek Replace Valves 1-BU-200-1 and 2	Steam Plant in Service					May-25	$ 1,224,043	$ -	$ -	Project Added
210	Marshall U4A Booster Fan Rotor Replacement	Steam Plant in Service					May-25	$ 1,230,643	$ -	$ -	Project Added
211	Belews Creek OPTIM Exciter MJR U1HP	Steam Plant in Service					May-25	$ 1,401,232	$ -	$ -	Project Added
212	Cliffside CS06 add disch isolation for ARP	Steam Plant in Service					May-25	$ 4,159,913	$ -	$ -	Project Added
213	Cliffside Replace SHRH bias dampers	Steam Plant in Service					Apr-25	$ 2,249,944	$ -	$ -	Project Added
214	Belews Creek Replace Unit 2 Bentley Nevada equip	Steam Plant in Service					Dec-24	$ 2,378,206	$ -	$ -	Project Added
215	Marshall Service Building Roof Replacement	Steam Plant in Service					Nov-24	$ 1,114,777	$ -	$ -	Project Added
216	Cliffside CS06 B ID Fan Rotor Replacement	Steam Plant in Service					Nov-24	$ 2,580,572	$ -	$ -	Project Added
217	Cliffside CS06 HPT Major & Inlet Pipe Rep	Steam Plant in Service					Nov-24	$ 2,669,168	$ -	$ -	Project Added
218	Cliffside CS06 Baghouse Bag Replacements	Steam Plant in Service					Nov-24	$ 2,721,398	$ -	$ -	Project Added
219	Marshall HCAD Tripper Room Transfer Chutes	Steam Plant in Service					Nov-24	$ 1,314,686	$ -	$ -	Project Added
220	Belews Creek BC2 H2 Cooler Retube and Coating	Steam Plant in Service					Oct-24	$ 1,476,492	$ -	$ -	Project Added
221	Marshall Replace Drinking Water Main Piping	Steam Plant in Service					Sep-24	$ 1,459,248	$ -	$ -	Project Added
222	Belews Creek D10 Dozer Certified Rebuild	Steam Plant in Service					Sep-24	$ 1,611,146	$ -	$ -	Project Added
223	Marshall MS4 BOILER BAFFLES	Steam Plant in Service					Aug-24	$ 1,380,793	$ -	$ -	Project Added
224	Marshall 2024 MS3 SCR Catalyst Replacement	Steam Plant in Service					Jun-24	$ 1,653,560	$ -	$ -	Project Added
225	Belews Creek BC02 SCR Catalyst Layer Replacement	Steam Plant in Service					Jun-24	$ 4,030,106	$ -	$ -	Project Added
226	Marshall U3A Booster Fan Rotor Replacement	Steam Plant in Service					May-24	$ 1,177,504	$ -	$ -	Project Added
227	Cliffside OPTIM 2024 ST VALVE SVCV CS6	Steam Plant in Service					Mar-24	$ 1,033,617	$ -	$ -	Project Added
228	Marshall 1A Mill Motor Refurbishment	Steam Plant in Service					Oct-25	$ 150,000	$ -	$ -	Project Added
229	Marshall 4A CCW Pump Rebuild/Replacement	Steam Plant in Service					May-25	$ 400,694	$ -	$ -	Project Added
230	Marshall 4C CCW Pump Rebuild/Replacement	Steam Plant in Service					May-25	$ 400,694	$ -	$ -	Project Added
231	Marshall 1A ID Fan Motor Refurbishment	Steam Plant in Service					Nov-24	$ 168,750	$ -	$ -	Project Added
232	Marshall 1B ID Fan Motor Refurbishment	Steam Plant in Service					Nov-24	$ 168,750	$ -	$ -	Project Added

DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - ORIGINAL FILING VS SUPPLEMENTAL FILING COMPARISON
DOCKET NO. E-7 Sub 1276

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Line No.	MYRP Project Name	FERC Function	Filed Jan 2023 - Total Project Amount (System) Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Filed May 2023 - Total Project Amount (System) Project Forecasted In-Service Date	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	Supplemental Update Criteria
233	Marshall 1HP MG Set Exciter Motor Refurbishment	Steam Plant in Service					Nov-24	$ 156,250	$ -	$ -	Project Added
234	Marshall 1D Mill Motor Refurbishment	Steam Plant in Service					Nov-24	$ 150,000	$ -	$ -	Project Added
235	Marshall 1E Mill Motor Refurbishment	Steam Plant in Service					Nov-24	$ 150,000	$ -	$ -	Project Added
236	Marshall 1 4kV Relay System Obsolete	Steam Plant in Service					Nov-24	$ 1,187,500	$ -	$ -	Project Added
237	Marshall 4B FD Fan Motor Refurbishment	Steam Plant in Service					Jun-24	$ 168,750	$ -	$ -	Project Added
238	Marshall 4D Mill Motor Refurbishment	Steam Plant in Service					Jun-24	$ 150,000	$ -	$ -	Project Added
239	Marshall 1A CCW Pump Rebuild/Replacement	Steam Plant in Service					May-24	$ 445,694	$ -	$ -	Project Added
240	Marshall 2B CCW Pump Rebuild/Replacement	Steam Plant in Service					May-24	$ 445,694	$ -	$ -	Project Added
241	Marshall 4B CCW Pump Rebuild/Replacement	Steam Plant in Service					May-24	$ 400,694	$ -	$ -	Project Added
242	Cliffside Soot blower maintenance	Steam Plant in Service					Dec-23	$ 150,000	$ -	$ -	Project Added
243	Marshall Soot blower maintenance	Steam Plant in Service					Dec-23	$ 150,000	$ -	$ -	Project Added
244	Belews Creek Soot blower maintenance	Steam Plant in Service					Dec-24	$ 150,000	$ -	$ -	Project Added
245	Marshall FGD A BALL MILL LIFTING BARS	Steam Plant in Service					Dec-24	$ 437,500	$ -	$ -	Project Added
246	Marshall 1B Mill Motor Refurbishment	Steam Plant in Service					Nov-23	$ 150,000	$ -	$ -	Project Added
247	Marshall 2A ID Fan Motor Refurbishment	Steam Plant in Service					Nov-23	$ 168,750	$ -	$ -	Project Added
248	Marshall 2B ID Fan Motor Refurbishment	Steam Plant in Service					Nov-23	$ 168,750	$ -	$ -	Project Added
249	Marshall 2HP MG Set Exciter Motor Refurbishment	Steam Plant in Service					Nov-23	$ 156,249	$ -	$ -	Project Added
250	Marshall 3E Mill Motor Refurbishment	Steam Plant in Service					Oct-23	$ 150,000	$ -	$ -	Project Added
251	Marshall 3F Mill Motor Refurbishment	Steam Plant in Service					Jul-23	$ 150,000	$ -	$ -	Project Added
252	Marshall 2A CCW Pump Rebuild/Replacement	Steam Plant in Service					Nov-23	$ 445,694	$ -	$ -	Project Added
253	Marshall 3C CCW Pump Rebuild/Replacement	Steam Plant in Service					May-25	$ 400,694	$ -	$ -	Project Added
254	Marshall 3B CCW Pump Rebuild/Replacement	Steam Plant in Service					May-24	$ 400,694	$ -	$ -	Project Added
255	Cliffside Soot blower maintenance	Steam Plant in Service					Dec-24	$ 150,000	$ -	$ -	Project Added
256	Marshall Soot blower maintenance	Steam Plant in Service					Dec-25	$ 150,000	$ -	$ -	Project Added
257	Cliffside Soot blower maintenance	Steam Plant in Service					Dec-25	$ 150,000	$ -	$ -	Project Added
258	Marshall HDP Motor Refurbishment	Steam Plant in Service					Dec-24	$ 200,000	$ -	$ -	Project Added
259	Marshall 4B BCP Capital Rebuild	Steam Plant in Service					Nov-25	$ 375,000	$ -	$ -	Project Added
260	Marshall 4A FD Fan Motor Refurbishment	Steam Plant in Service					May-24	$ 168,750	$ -	$ -	Project Added
261	Marshall Soot blower maintenance	Steam Plant in Service					Nov-24	$ 150,000	$ -	$ -	Project Added
262	Marshall 4A BCP Capital Rebuild	Steam Plant in Service					Jan-24	$ 375,000	$ -	$ -	Project Added
263	Belews Creek Soot blower maintenance	Steam Plant in Service					Dec-25	$ 150,000	$ -	$ -	Project Added
264	DEC Winterization Capital Projects	Steam Plant in Service					Dec-25	$ 6,000,000	$ -	$ -	Project Added
265	Belews Creek Breaker/Bus Mainteance	Steam Plant in Service					Dec-25	$ 150,000	$ -	$ -	Project Added
	TOTALS			**$ 1,052,532,991**	**$ 4,254,133**	**$ 27,605,468**		**$ 1,111,519,492**	**$ 4,254,133**	**$ 5,899,314**	

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DUKE ENERGY CAROLINAS, LLC
MYRP PROJECTS - SUPPLEMENTAL
DOCKET NO. E-7 Sub 1276

						Total Project Amount (System)			
Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
1	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 8	Other Production Plant in Service	Nov-23	Perform a HGPI on Dan River Unit 8 CT per the latest OPTIM Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. It is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 15,397,339	$ -	$ 50,000	DR080050
2	OPTIM ST07 Valves 2023	Other Production Plant in Service	Nov-23	Rebuild the Dan River Steam Turbine Valves per the Outage Template and OPTIM Target. Valves include Control/Governor/Stop/Throttle/RHS/Intercept/CR/Vent/Blow Valves	Replace capital valve components of the Dan River CC Steam Turbine 7 Valves based on Duke Turbine/Generator Services recommended maintenance interval.	$ 1,282,393	$ -	$ 658,282	DR070023
3	OPTIM Combustion Turbine Hot Gas Path (HGP) Dan River Unit 9	Other Production Plant in Service	Nov-23	Perform a HGPI on Dan River Unit 9 CT per the current OPTIM Model.	Perform a standard hot gas path inspection in accordance with OEM and company engineering standards. GE 7F Gas Turbines require major maintenance at set intervals based on the number of run hours. It is projected that this unit will reach or exceed the number of run hours required to perform this maintenance in 2023.	$ 16,965,629	$ -	$ 50,000	DR090055
4	Compressor Blade Replacement	Other Production Plant in Service	Jun-24	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering. S1-S5 and additional scope as identified by inspections.	The 7EA combustion turbine fleet is experiencing several compressor related issues. Replacing the stationary compressor blades will mitigate the cracking issues found on other units.	$ 1,089,347	$ -	$ -	MK050001
5	WS Lee CC Ammonia Tank Upgrade	Other Production Plant in Service	Sep-24	Replace 15,000 gallon ammonia tank with an upsized model.	Add ammonia storage capacity to accommodate varying chemical delivery times without running low during operation to maintain emission limits. Adding 15,000-gal tank would provide same total storage (30,000 gals) as Smith Combined Cycle Power Block 5.	$ 482,366	$ -	$ -	LSCC0136
6	WS Lee CTs 2024 Ovation Evergreen	Other Production Plant in Service	Oct-24	2024 WS Lee CTs Ovation Evergreen	A workstation refresh is needed in 2024 at WS Lee CT 7C and 8C, specifically targeting Windows Server 2012 machines and any other aging hardware. It is a CYBER SECURITY requirement that we be able to do Windows Security patching on all of WS Lee CT's control system assets with updated Ovation versions.	$ 1,020,881	$ -	$ -	LSC00100
7	Ovation Evergreen Upgrade	Other Production Plant in Service	Dec-25	Evergreen upgrade of the Ovation DCS system.	Maintain Lincoln CT plant control system reliability by replacing aging/obsolete digital control system (DCS hardware). Upgrade the Lincoln Emerson Ovation DCS to the latest revision. Upgrade HMIs to latest Windows operating system to continue to support patching	$ 1,585,327	$ -	$ -	LCC00139
8	Mill Creek CT - Replace U1-8 Turbine Controls	Other Production Plant in Service	Nov-25	Replace the GE MKVI turbine control systems on Mill Creek Units 1 thru 8 with equivalent controls or current technology controls.	GE support for the existing legacy MkVI controls is expected to be discontinued in 2024.	$ 5,191,504	$ -	$ -	MKC00006
9	WS Lee CC Spare GSU Containment	Other Production Plant in Service	Aug-25	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a General Step-Up (GSU) Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CC with a milestone payment in 2025 and installation in 2026. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters. Having the Spare GSU Transformer shortens unit downtime if there is a GSU failure.	$ 1,604,642	$ -	$ -	LSCC0146
10	Buck CC Oily Water Separator (OWS) Replacement	Other Production Plant in Service	Dec-26	Capital replacement of the existing OWS with an above ground OWS.	New separator to be installed above ground for easier access and inspection to reduce risk of environmental events.	$ 2,740,494	$ -	$ -	BKCC0186
11	Rockingham CT RK04 Gen Stator and Rotor Rewind	Other Production Plant in Service	May-25	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,210,846	$ -	$ -	RK040015
12	Rockingham CT RK05 Gen Stator and Rotor Rewind	Other Production Plant in Service	Sep-26	Rewind Generator (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,232,328	$ -	$ -	RK050001
13	WS Lee CC LS11 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	Install hot reheat and cold reheat isolation valves on HRSG 11.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,324	$ -	$ -	LS110016
14	WS Lee CC LS12 HRH and CRH Isolation Valves	Other Production Plant in Service	Nov-26	Install hot reheat and cold reheat isolation valves on HRSG 12.	WS Lee combined cycle plant does not have double isolation on the hot reheat (HRH) steam and cold reheat steam (CRH) between each heat recovery steam generator (HRSG) and the headers. During 1x1 operations (one combustion turbine + one steam turbine), the existing single isolation valves are not sufficient to prevent steam from leaking by.	$ 1,643,324	$ -	$ -	LS120015
15	WS Lee CT 7C and 8C Spare GSU Containment	Other Production Plant in Service	Aug-26	Installation of the foundation/containment for the Spare GSU & purchase of spare GSU	Due to the long lead time for a GSU Transformer delivery, Duke Energy is considering purchasing a spare transformer for WS Lee CT 7C/8C as a backup for Oconee. As Oconee's blackstart backup, if there was a XFMR GSU switching failure, Oconee would be at risk. The Spare GSU will require a concrete base with containment, drain with valve and include electrical service for the coolant's heaters.	$ 1,857,920	$ -	$ -	LSC00075

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16	Clemson Hydrogen Project (CHP) H2 Project	Other Production Plant in Service	Jul-26	This operational pilot at the recently built and Duke-owned Clemson Combined Heat & Power (CHP) facility will test the dispatchable operational abilities of an integrated hydrogen production, compression, storage, and generation system. This will serve to define the future development requirements and operational needs to reduce the technology introduction risk for a utility-scale system.	Results will define the future development requirements and operational needs for utility-scale hydrogen fueled generating plants.	$ 61,180,474	$ -	$ -	CUCH0083
17	Bad Creek U4 MW Uprate	Hydro Plant in Service	Feb-24	Upgrade of runner, generator, step-up transformers, and iso-phase bus cooling system.	Unit will increase generator capacity by 80MW and pump capacity by 65MW. This increased capacity can work as additional storage to accommodate solar generation.	$ 28,627,795	$ -	$ -	BA040005
18	Cowans Ford Bank 2 GSU Replacement	Hydro Plant in Service	Nov-24	Replace Cowans Ford bank 2 generator step up (GSU) transformer.	Bank 2 generator step-up (GSU) transformer is 55 years old and at end of life. Environmental impact if failure occurred as oil-cooled unit sits over the tailrace. Will maintain plant reliability as 2 units are connected to the transformer.	$ 6,004,238	$ -	$ -	CF000134
19	Jocassee Station Motor Control Center	Hydro Plant in Service	Sep-24	Replace Station Motor Control Centers that are original plant equipment (40+ years) and no longer supported by OEM.	Components (breakers, starters, operators, etc.) are experiencing age related wear which can cause reduced reliability of this equipment.	$ 3,264,697	$ -	$ -	JO000095
20	FERC WA Flood Management	Hydro Plant in Service	Feb-24	Spillway Modifications for Flood Management at Wateree Hydro in Accordance with Catawba Wateree License	Renewed Catawba Wateree FERC License mandates additional 10,000 cfs water passage capability through the Wateree dam/powerhouse. Additional 10,000 CFS of flow will reduce the amount of residential flooding on Lake Wateree during high rain events will provide capability to better prepare for storm inflows by proactively passing more water through the Wateree plant.	$ 28,865,723	$ -	$ -	WA001213
21	Rhodhiss Spillway Debris Gate	Hydro Plant in Service	Dec-24	Install gate in spillway to pass floating debris. Part of Rhodhiss Life Extension.	Bypassing floating debris before it submerges and builds up in the intake will reduce clogging of trash racks on the unit that impacts unit performance. Will also reduce frequency of dredging the intake.	$ 3,782,782	$ -	$ -	RH000039
22	FERC Fishing Creek Floodgate Life Exten Ph II	Hydro Plant in Service	Jul-25	This scope of work is for turn-key services to procure, fabricate, remove and install new and existing equipment for eleven (11) floodgates.	FERC license was recently renewed for the next 40 years at this facility. Existing equipment has been in service for over 100 years. Relacing aging floodgates will maintain unit reliability for the remaining operational life.	$ 11,777,827	$ -	$ -	FC003677
23	Great Falls Replace Headworks Rake and Racks	Hydro Plant in Service	Oct-25	Replace the aging trask rake at the Great Falls Headwork and replace with a new system that runs off EAL. Project would be to remove existing equipment and track and to install a new track and rake. Major damage has also been found to the trash racks and all ten require replacement. Dredging in front of the headworks will be required to ensure racks are fully uncovered for replacement.	Replace the old intake trash rake system which has had several repairs to cracked welds and hydraulic leaks. New trash racks will be installed (10 locations), along with correcting the grating on top of the racks	$ 3,637,288	$ -	$ -	GF000039
24	Cedar Cliff Civil Life Ext HeadTailra Gates	Hydro Plant in Service	Dec-24	Cedar Cliff Hydro -Civil Life Extension-Head & Trailrace Gates	Headgate to be engineered to satisfy confined space entry program and Lock-Out, Tag-Out (LOTO) boundary. Tailrace to be installed to isolate personnel from tailrace for maintenance. Will eliminate need for confined space rescue team for unit maintenance and reduce safety concerns with engineering isolation points.	$ 2,218,445	$ -	$ -	CE000023
25	Cedar Cliff Install Turbine Inlet Valve	Hydro Plant in Service	Dec-24	Cedar Cliff Install Turbine Inlet Valve	Installing a turbine inlet valve will allow water to be shut off to the turbine in case there are problems with the headgate due to rock slides or other abnormal operating conditions. This will also allow working on the main unit without dewatering the penstock. This would allow the min flow unit to operate when working on the main unit.	$ 4,154,686	$ -	$ -	CE000043
26	FERC Cowans Ford Stumpy Creek Access Area	Hydro Plant in Service	Dec-24	FERC Stumpy Creek Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,161,877	$ -	$ -	CF001208
27	Fishing Creek Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-25	Replace Fishing Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,365,071	$ -	$ -	FC001225
28	Jocassee Exterior Life Extension	Hydro Plant in Service	Dec-24	Replace Jocassee Alpha Intake crane controls; update main & polar hoists with new components including motors and main cable; new cylinder gate seals; and coat entire super structure, cylinder gate, and exposed bridge steel. Also includes the tailrace structure, powerhouse roof deck structure coatings.	Having been in operation for more than 40 years, a number of major exterior components of the power plant have exceeded their design life. These components need to either be completely replaced or significantly rehabilitated in order to reliably extend the operational life the plant.	$ 1,124,979	$ -	$ -	JO001249
29	NA GSU Transformer Replacement	Hydro Plant in Service	Jan-26	Replacement of the failed transformfer at Nantahala and potential hot spare.	The Nantahala 3-phase general step-up (GSU) transformers need replacement. The GSUs are/were 1947 vintage and beyond their useful lifespan. Bank #2 failed due to an internal fault and was replaced in 2022 with a non-matching used transformer on an emergent project to get the generator back to full capacity. The used transformer and original bank #1 GSU from 1947 both need to be replaced with new GSUs specifically designed for the site to maintain reliable generation and recreational flow requirements.	$ 5,561,206	$ -	$ -	NA000643
30	Oxford OX Replace 9070 to 3i Controls	Hydro Plant in Service	Dec-24	Replace Oxford Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 719,857	$ -	$ -	OX001222
31	FERC Lookout Shoals Upper Access Area	Hydro Plant in Service	Sep-25	Upper Lookout Shoals Access Area Construction	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 2,806,995	$ -	$ -	LK001205

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32	Lookout Shoals Replace Jr Generator Headgate	Hydro Plant in Service	May-25	This headgate replacement is for the junior generators.	The main generator head gates were replaced in the 90's with steel and concrete construction while the junior generator headgate was not. To ensure continued reliability for the junior generators (min-flow unit) the original construction head gate needs to be replaced.	$ 1,113,554	$ -	$ -	LK000029
33	Cedar Cliff Electrical Life Extension	Hydro Plant in Service	May-26	Cedar Cliff Electrical Life Extension	Electrical components in Cedar Cliff Powerhouse are original to the plant from 1952. Switchgear, Controls, Protective Relaying, and Station Service all are at end-of-life and need to be replaced with modern engineered components.	$ 3,634,331	$ -	$ -	CE000021
34	Cedar Creek Replace 9070 to 3i Controls	Hydro Plant in Service	Sep-26	Replace Cedar Creek Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,891,773	$ -	$ -	CC001222
35	Bad Creek Unit Transformers Loadcenters	Hydro Plant in Service	Sep-25	Replace 1,2,3,4TGA Transformers & 1,2,3,4LGA switchgear.	Operating restrictions are currently in place to keep the 1LGA-2LGA load center tie breaker OPEN. The same restrictions will be in place with 3LGA-4LGA once the U4 MW uprate is placed in service (September 2023). In this condition, a single TGA-LGA load center cannot support 2-unit operation (original station design).	$ 2,700,772	$ -	$ -	BA002992
36	Fishing Creek U3 Headgate Replacement	Hydro Plant in Service	Dec-25	Headgate Replacement Unit 3	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 2,501,207	$ -	$ -	FC030009
37	FERC Great Falls Pedestrian Bridge	Hydro Plant in Service	Sep-25	FERC Lower Great Falls Reservoir Canoe/Kayak Launch pedestrian bridge	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 4,688,763	$ -	$ -	GF000058
38	Mountain Island Replace 9070 Controls	Hydro Plant in Service	Sep-25	Replace Mountain Island Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 1,755,151	$ -	$ -	MI001215
39	Jocassee Replace 9070 Controls	Hydro Plant in Service	Nov-26	Replace Jocassee Station/Unit Control Systems	The existing GE 9070 Controls hardware is obsolete and no longer manufactured by GE. Replacement parts are becoming harder to obtain and could cause down time in the future.	$ 2,500,665	$ -	$ -	JO001239
40	Lookout Shoals Repl Jr Generator Penstock Liner	Hydro Plant in Service	Dec-25	Penstock Replacement - Junior Generators	The carbon steel piping is starting to have interior corrosion issues that need to be addressed. Wall thinning is occuring and leading to through wall leaks of the piping that is above the poured concrete decking. Multiple patches have been installed over the years to repair pin hole leaks.	$ 1,013,555	$ -	$ -	LK001228
41	FERC Bridgewater Fonta Flora Access Area	Hydro Plant in Service	Dec-25	Bridgewater Fonta Flora Access Area	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 3,786,845	$ -	$ -	BW001210
42	Jocassee DFSP Ramp Replacement	Hydro Plant in Service	Dec-25	The boat ramps at the Main Entrance and the Villas have fallen into disrepair and need to be replaced	The boat ramps at the main entrance and villas have fallen into disrepair and need to be replaced in oder to maintian public access to Lake Jocassee	$ 1,743,125	$ -	$ -	JO000204
43	FERC Moutain Island Riverbend Access Area	Hydro Plant in Service	Dec-25	Riverbend Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 5,120,861	$ -	$ -	MI001205
44	FERC Oxford Spillway Piers Bulkhead	Hydro Plant in Service	Jun-25	Concrete repairs to ensure infrastructure life is extended.	Spillway and bulkhead concrete is cracking and spalling due to age. Restore degraded concrete elements to original plant configuration to maintain reliability for remainder of 40-yr FERC license renewal.	$ 32,303,359	$ -	$ -	OX000006
45	Oxford Replace Spillway Gantry Girders	Hydro Plant in Service	Mar-26	Replace existing crane rail support beams to increase design wind speed to 45 MPH for movement between gates and transporting of stop log sections.	The Oxford Hydro station is equipped with a spillway that has ten spillway gates. These spillway gates are operated by two gantry cranes. The existing crane rail support beam system was designed with a wind load rating that is limited to 25 MPH for the cranes to move unloaded and a design wind load of 15 MPH while in motion transporting their heaviest loads, the stop log sections. Two new cranes manufactured by Reel COH were installed on the old gantry rail system. These new gantry cranes are designed for 45 MPH design wind speed for operation carrying a load and 90 MPH when parked. Upgrading the old crane rail system will allow the new cranes to be operated at the new wind load ratings.	$ 15,095,452	$ -	$ -	OX000048
46	FERC Oxford Gate Guides for Floodgates	Hydro Plant in Service	Mar-26	Floodgate guide replacement (First 10') for 10 floodgates.	Existing floodgates guides are collapsing and binding the gates. Installing new gate guides will maintain reliable operation for the renewed 40-year FERC license.	$ 6,716,860	$ -	$ -	OX000050
47	Thorpe Hydro Generator Replacement	Hydro Plant in Service	Dec-25	Replace Thorp Hydro Turbine Impeller and Generator Assembly	Turbine/Generator unit was installed in 1941. Turbine bearing operates at high temperature and experiences leaks. Bearing replacement is not feasible due to age and design. Generator rotor is experiencing cracking with increased frequency of repairs and risk of forced outage. New turbine/generator assembly will provide increased output of 3-5 MW.	$ 15,437,920	$ -	$ -	TH000068
48	FERC Wateree Taylor Creek Bank Fishing	Hydro Plant in Service	Dec-25	FERC Taylor Creek Bank Fishing	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,158,721	$ -	$ -	WA001206

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
49	FERC Linville Canoe Kayak Access Area	Hydro Plant in Service	Jun-26	FERC LinvilleCanoe / Kayak Access Area	Lake access and public infrastructure projects are included in the FERC Catawba Relicensing Requirement	$ 1,388,199	$ -	$ -	BW001212
50	FERC Thorpe Hydro Trout Crk Pipeline Coatings	Hydro Plant in Service	Jul-26	FERC issue, coatings of Thorpe pipeline at the Trout Creek crossing	Replace coating on main pipeline around the Trout Creek crossing to prevent corrosion and maintain pipeline integrity.	$ 1,650,747	$ -	$ -	TH000011
51	Fishing Creek U4 Headgate Replacement	Hydro Plant in Service	Aug-26	Headgate Replacement Unit 4	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,865,580	$ -	$ -	FC040010
52	Fishing Creek U5 Headgate Replacement	Hydro Plant in Service	Aug-26	Headgate Replacement Unit 5	FERC dam safety requirements include ensuring head gate and pressure boundary integrity, with emergency closure capability. Scope is to replace aged 1910's vintage head gates to maintain station functionality.	$ 1,865,580	$ -	$ -	FC050008
53	Mountain Island U3 Trash Racks Stop Logs System	Hydro Plant in Service	Jul-24	Project to replace existing trash racks with new upstream Unit isolation with procurement and installation of new universal trash racks stop logs system attached to the forebay.	Units cannot be isolated using existing Lee Head Gate due to safety concerns. Installation of an integrated Trash Racks / Stop Logs (TRSL) system will provide the needed unit isolation.	$ 4,729,996	$ -	$ -	MI030004
54	Bad Creek U1 Replace Control System	Hydro Plant in Service	Aug-26	Bad Creek U1 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 4,548,204	$ -	$ 657,570	BA010091
55	Bad Creek U2 Replace Control System	Hydro Plant in Service	Dec-26	Bad Creek U2 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,476	$ -	$ -	BA020027
56	Bad Creek U3 Replace Control System	Hydro Plant in Service	Dec-26	Bad Creek U3 Control System Replacement	Existing Forney Controls Hardware is obsolete, and Forney no longer manufactures. Replacement parts are becoming more difficult to obtain and could cause down time in the future.	$ 1,537,476	$ -	$ -	BA030016
57	FERC Bridgewater Pocket Park At Dam LJ Loop	Hydro Plant in Service	Dec-26	Install Parking, Picnic Facilities, Overlooks, Bank Fishing Trail as part of FERC Catawba Relicensing Requirement	Lake access and public infrastructore projects are included in the FERC Catawba Relicensing Requirement	$ 2,405,361	$ -	$ -	BW001211
58	Fishing Creek U3 Replace Wear Rings	Hydro Plant in Service	Dec-26	Replace Fishing Ck U3 Wear Rings	Replacing worn turbine wear rings will maintain unit efficiency.	$ 1,135,678	$ -	$ -	FC031204
59	Jocassee Warehouse Replace Siding Roof	Hydro Plant in Service	Dec-26	Jocassee Whse Replace siding & roof	Existing Jocassee warehouse roof and siding are degraded and need of replacement.	$ 1,298,164	$ -	$ -	JO000151
60	Oxford U2 Replace Mandoors	Hydro Plant in Service	Dec-26	Oxford Unit 2 Mandoors	Oxford U2 Mandoors - existing door is original to the station and the cast iron door and bolting flange have deteriorated to the point that achieving a seal is not possible.	$ 1,042,907	$ -	$ -	OX020008
61	HCA Dust BC23 Conv Trans Repl	Steam Plant in Service	Dec-23	Replace Belews Creek 2-3 coal transfer conveyor.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between 2 and 3 coal conveyors allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 1,840,330	$ -	$ -	BC001465
62	Marshall - Replace Fuel Handling Trnsfr 2024	Steam Plant in Service	Nov-25	Install new coal conveyor transfer system for 1A/B to 4A/B and 2B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between 1A and 1B and 4A/4B/2B allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance with the Governance Procedure.	$ 2,377,042	$ -	$ -	MS000745
63	HCA Transfer House Wash Down	Steam Plant in Service	Nov-23	HCAD Transfer House Wash Down System	Provide a fixed washdown system of piping and spray nozzles to remove coal dust from the Transfer House through the operation of one or more valves. Compliance with Combustible Dust Governance Procedure.	$ 1,518,636	$ -	$ -	MS000747
64	Marshall - Replace Fuel Handling Trnsfr 2025	Steam Plant in Service	Nov-26	Install new coal conveyor transfer system for - F6A/F6B to 4A/B Transfers at Marshall Station	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems between F6A/F6B to 4A/B Transfer allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting during material handling. This fugitive material has to be manually removed by to maintain compliance with the Governance Procedure.	$ 2,625,605	$ -	$ -	MS000746
65	Marshall Aux Boiler	Steam Plant in Service	Feb-26	Provide auxilliary steam to start Units 3 & 4 when Units 1 & 2 are offline. Units 1-2 expected to retire in 2028.	Aux steam is required to startup Marshall U3 and U4, requiring another boiler on line to produce steam for startup. If all units were offline U1 or U2 would be needed for startup to get U3 or U4 online. U1 & 2 are projected to retire in 2028 and aux steam source for MS3 & 4 will be needed.	$ 12,169,850	$ -	$ -	MSCM1242

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Oct 02 2023

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66	Marshall Coal Blending PLC Replacement	Steam Plant in Service	Dec-23	Replace Marshall coal blending programmable logic controllers (PLC).	Bringing coal blending system controls into the plant Ovation digital control system will provide more efficient operation and facilitate troubleshooting for maintenance.	$ 1,332,301	$ -	$ -	MS001315
67	OPTIM ST Valve RHSVIVTVGV U2	Steam Plant in Service	May-24	Belews Creek Unit 2 Capital Turbine Valve Replacements	Replace capital valve components of the Belews Creek Unit 2 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 4,513,478	$ -	$ 282,745	BC020371
68	HCA DustBC 6A6D Vibratory Fdrs	Steam Plant in Service	Dec-24	Install vibratory feeder and slide gates on 6A, 6B, 6C, & 6D hoppers.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The material transfer systems between Surge Bin and Conveyors 6A, 6B, 6C, and 6D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 1,899,900	$ -	$ -	BCCM0023
69	Marshall Crusher Motor Chillers Alt Feed	Steam Plant in Service	Sep-23	Marshall - Coal Crusher Motors Chillers Alternate Feeder	Crusher Motors Chiller power is currently fed from Unit 1 with no backup/alternate source. Crusher motors cannot run without cooler skid. Providing chiller backup power will increase reliability of coal crusher motors.	$ 1,471,620	$ -	$ -	MS000926
70	Marshall MS01 600V 1XS MCC Replacement	Steam Plant in Service	Oct-24	MS01 - 600V 1XS MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 954,590	$ -	$ -	MS011378
71	Marshall MS1 600V 1XD MCC Replacement	Steam Plant in Service	Oct-25	600V 1XD MCC Replacement	Parts for the Marshall Unit 1 Motor Control Centers (MCC) are obsolete and are harder to obtain. Some failures have occurred resulting in unit trips.	$ 994,169	$ -	$ -	MS011394
72	Marshall MS1 MSU Transf Cooler and Pump	Steam Plant in Service	Oct-24	Replace Marshall Unit 1 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 974,000	$ -	$ -	MS010109
73	Marshall MS2 4kV Relay System replacement	Steam Plant in Service	Oct-25	MS2 4KV Relay System replacement	The existing electromechanical relays on the Marshall Unit 2 4kV system are original equipment. Spare parts for the electro-mechanical relays are getting hard to obtain. The new digital relays are easier to program and have additional protection schemes. The new relays will also reduce the arc flash ratings on the existing gear which will facilitate maintenance on the feeder breakers.	$ 960,042	$ -	$ -	MS020111
74	HCA DustBC 1 Head Chute Repl	Steam Plant in Service	Aug-25	#1 head end chute replacement this is the chute going into the 90 ton surge bin. (remove old chute and old magnetic seperator. replace with a flow directive chute made from stainless steel and lined with impact resistant 1" ceramic. the new chute should control the flow towards the center of the bin area.	#1 Head end coal chute is at end of life. The old magnetic separator needs to be removed from service and chute modified to control combustible dust. New chute will control dust and reduce chances of dust build up for mitigation.	$ 1,513,088	$ -	$ -	BC000199
75	Belews Creek BC01 SCR Catalyst Replacement	Steam Plant in Service	May-25	BC01 SCR catalyst layer replacement.	SCR catalyst layer replacements maintain DEQ-required NOx removal rate based on analysis of samples of catalyst layers.	$ 3,181,664	$ -	$ -	BC010717
76	Marshall MS2 MSU Xfrmr Cooler and Pump	Steam Plant in Service	Nov-24	Replace Marshall Unit 2 Main Step-Up (MSU) transformer oil coolers and pumps.	Transformer coolers and pumps are starting to leak and fail.	$ 974,000	$ -	$ -	MS020064
77	Marshall MS3 FD Fan Bearing Oil System	Steam Plant in Service	Apr-24	Marshall Unit 3 Forced Draft (FD) FAN BEARING OIL SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 3 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the frequency of oil changes.	$ 790,478	$ -	$ -	MS030130
78	Cliffside CS06 Template Turbine MajorValve	Steam Plant in Service	May-26	CS06 2026 Turbine Major Inspection and Turbine Valves. This project includes the scope and costs according to the turbine and turbine valve templates. This does not include Boiler Feed Pump Turbine scope.	Replace capital valve components of the Cliffside Unit 6 Steam Turbine based on Duke Turbine/Generator Services recommended maintenance interval.	$ 474,525	$ -	$ -	CS060059
79	Belews Creek BC FGD Lighting Replacement	Steam Plant in Service	Sep-26	Replace all lighting with upgraded LED lights in the Absorber, Reagent Prep, and Dewatering buildings and the booster fan areas.	Lighting is very dim making it hard to work and creates a walking & slip hazard. Existing lighting system is 15 years old. Existing lighting in scrubber (FGD) areas is all hard-wired, thereby requiring a Lock-Out, Tag-Out (LOTO) every time a light requires replacement. New LED lights will be plug-ins.	$ 2,212,121	$ -	$ -	BC000951
80	OPTIM Exciter MJR U2HP	Steam Plant in Service	Jun-26	Belews Creek Unit 2 HP Exciter Major Inspection per OPTIM and Generator Program Manager/SME recommendations. Workscope to be performed offsite by various vendors. Includes full inspection/testing of rotor, base, and stator components; stationary (stator) coil rewind; base refurbishment; and cooler retubing	BC2 HP exciter base, wiring and field coils are 40+ years old. Field coil insulation issues are developing, which is a unit reliability risk. The exciter base is distorted. Exciter component contamination, especially the diode wheel, from airborne particles has significantly increased since the installation of the gypsum handling facility on the east side of the powerhouse. Diode wheel contamination can provide a path for electrical shorts.	$ 2,209,702	$ -	$ -	BC020271
81	HCA Dust BC 6C7C6D7D Transfer	Steam Plant in Service	Dec-26	Install a conveyor transfer system between the head of 6C and the load zone of 7C and between the head of 6D and the load zone of 7D.	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The coal conveyor transfer systems between 6C and 7C and between 6D and 7D allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the room during material handling. Currently, this fugitive material has to be manually removed to maintain compliance with Combustible Dust requirements.	$ 2,793,126	$ -	$ -	BC020315

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Oct 02 2023

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82	Marshall MS4 BCP Valve Replacement	Steam Plant in Service	Jun-26	Replace Boiler Circulating Pump (BCP) valves on Marshall Unit 4	The Marshall Unit 4 A and B boiler circulating pump (BCP) suction, discharge, bypass valve and recirculation valve are reaching end of life. The valves are original equipment to the plant from the late 1960's. Repairs have been made over the course of their existence to keep them in operation, but due to the age and condition of these valves, they are beginning to require more repairs. This is resulting in forced outages from packing and seal leaks. There were two occurrences recorded in the past three years of forced outages caused by these faulty valves. The decline in condition will only increase this trend.	$ 2,081,793	$ -	$ -	MS040111
83	Marshall MS4 FD Fan Bearing Oil System	Steam Plant in Service	Apr-24	Marshall Unit 4 Forced Draft (FD) FAN BEARING OIL SYSTEM REPLACEMENT	Existing lube oil system is 50yrs old. Current performance of lube oil skids is deteriorating and forced draft (FD) fan bearings could be damaged in the event the skid fails. Unit 4 FD fan lube oil skids are outdated, and replacement parts are difficult to find. New skids will also allow for oil filtration and sampling for condition which will reduce the frequency of oil changes.	$ 936,919	$ -	$ -	MS040117
84	Marshall MS4 ID fan motor LCI replacement	Steam Plant in Service	Jun-24	Replace existing Synchronous Induced Draft (ID) Fan Motors with Induction Motors. Replace Obsolete LCI Fans Speed Controllers with New Generation variable frequency drive (VFD) Speed Controllers. Replace current motor vibration equipment.	The MS4 Induced Draft (ID) Fan Motors and variable speed LCI drives are 35 years old and are obsolete. Spare parts and knowledgeable vendor technical support are difficult to obtain. Replacing with modern equipment will maintain unit reliability.	$ 2,498,280	$ -	$ -	MS040139
85	Marshall MS4 replace ME in absorber	Steam Plant in Service	Dec-26	Replace the Flue Gas Desulfurization (FGD) absorber vessel mist eliminators	Upgrade to modern materials to allow reliable unit operation when firing on natural gas.	$ 1,154,891	$ -	$ -	MS040168
86	OPTIM ST Valve CRV MS4	Steam Plant in Service	Jun-26	MS4 Combined Reheat Valves Replacement	Replace capital valve components of the Marshall Unit 4 Steam Turbine based on Duke	$ 2,146,113	$ -	$ 81,008	MS040203
87	Marshall Station - Replace #3 chiller and	Steam Plant in Service	Dec-23	Marshall Station - Replace #3 chiller and air handling unit (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide	$ 948,385	$ -	$ -	MS001093
88	Lincoln CT 17	Other Production Plant in Service	Jan-24	Construction of one Advanced 1X1 J-Frame simple cycle unit (367 MW summer / 404 MW winter) at the existing Lincoln CT site. Includes the transmission project to support Lincoln CT 17 capacity. Forecasted in-service date is dependent on pending DEC Petition for Amendment to CPCN to allow Unit 17 to go in service in January 2024, in Docket No. E-7, Sub 1134.	Duke Energy Carolinas (DEC) has a 468MW CT need in the 2024 timeframe as referenced in its Integrated Resource Plan (IRP) filed with the North Carolina Utilities Commission (NCUC) in September 2016. Transmission includes Interconnect between the high side of the Generator Step-Up transformers (GSU's) and the existing Substation / Switchyard. All transmission equipment installed will meet FERC, NERC and System Transmission Reliability Standards.	$ 172,452,383	$ 4,254,133	$ -	LC170001
89	FERC Mountain Island Dam Seismic	Hydro Plant in Service	Feb-26	FERC has required that all licensees/owners of dams evaluate the seismic stability of each of their dams utilizing newer criteria. Mountain Island (MI) preliminary analysis indicates that an adequate factor of safety does not exist.	Upgrades to Mt. Island dam to meet new FERC seismic and flood event requirements.	$ 85,382,811	$ -	$ -	MI000028
90	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Steam Plant in Service	Dec-24	Marshall Station - Replace #4,#5 chiller and air handling units (AHU).	Equipment has been repeatedly failing and is in need of replacement. These chillers provide cooling to all DCS controls and control room for running the plant control systems.	$ 1,642,431	$ -	$ -	MS001094
91	Replace Filtered Water Riser - Marshall	Steam Plant in Service	Nov-23	Replace filtered water riser piping at Marshall Steam Station	Piping is showing signs of significant corrosion. Replacement of this piping is required to ensure future reliability and purity of the Filtered Water System.	$ 2,008,268	$ -	$ -	MS000577
92	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Steam Plant in Service	Sep-26	Replace Marshall Coal Crusher Transfer Feeder Belts and Chutes 2026	Combustible Dust Governance Procedure states that dust layers in classified areas cannot exceed 1/8" on surfaces. The conveyor transfer systems in the Dumper House between feeders F1A and F1B --1A and 1B--- 3A and 1A and between 3B and 1B and the Crushers allow fugitive material to escape the transfer systems and spill on the structural members and floor. These systems are also contributing to the dusting in the house during material handling. This fugitive material has to be manually removed to maintain compliance with the Governance Procedure.	$ 2,543,638	$ -	$ -	MS000480
93	WSL Unit 11 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	Upgrade CT11 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 8,121,244	$ -	$ -	LS110040
94	WSL Unit 12 Siemens FX Upgrade	Other Production Plant in Service	Nov-26	Upgrade CT12 with Siemens FX turbine parts for increased output and heat rate improvements.	Siemens FX turbine parts upgrade will increase unit output (20MW) and improve heat rate.	$ 8,121,244	$ -	$ -	LS120036
95	Rockingham CT RK01 Gen Stator and Rotor Rewind	Other Production Plant in Service	Nov-26	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 2,869,863	$ -	$ -	RK010068
96	Rockingham CT RK03 Gen Stator and Rotor Rewind	Other Production Plant in Service	Oct-25	Generator Rewind (Stator and Rotor)	Inspection reports indicate partial discharge (PD) activity which could lead to generator failure. PD activity indicates breakdown in the insulation between copper bars which results in improper flow of current and can eventually create an open circuit or the circuit going to ground, which could lead to generator failure.	$ 3,278,299	$ -	$ -	RK030040
97	Replace Marshall Unit 2 Air Preheater (APH) baskets	Steam Plant in Service	Dec-23	Repl Marshall Unit 2 air preheater (APH) baskets with updated ABS dsgn	Current air preheater (APH) baskets are at end of life. Replacing degraded and plugged baskets will reduce risk of derates from induced draft (ID) fan capacity limits.	$ 4,010,213	$ -	$ -	MS020175
98	FERC Lookout Shoals Seismic Net Proj	Hydro Plant in Service	Nov-23	Upgrade Lookout Shoals Dam Stability based on latest FERC requirements	The Federal Energy Regulatory Commission (FERC) has required that all licensees/owners of dams evaluate the seismic stability of each of their dams utilizing newer criteria. Lookout Shoal's preliminary analysis indicates that an adequate factor of safety does not exist. Therefore, it is mandatory for Duke Energy to develop a proposed stability improvement that results in an acceptable factor of safety.	$ 60,602,062	$ -	$ -	LK001200

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
99	Tennessee Creek Wolf Creek Replace Intake Hoist	Hydro Plant in Service	Dec-26	Replace Wolf Creek Hydro Intake Hoist	Intake hoist is original equipment and at the end of its life. The building housing the hoist and cables is deteriorated and poses a safety hazard.	$ 1,670,400	$ -	$ -	TC000309
100	Wateree Bank 3 GSU Replacement	Hydro Plant in Service	Dec-26	Replacement of Wateree Bank 3 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,756,303	$ -	$ -	WA030019
101	Wateree Bank 2 GSU Replacement	Hydro Plant in Service	Jun-26	Replacement of Wateree Bank 2 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,747,014	$ -	$ -	WA020028
102	Cedar Creek Stumpy Pond Access Area Upgrades	Hydro Plant in Service	Apr-26	Capital improvements for public boater access to the Cedar Creek reservoir. Stumpy Pond will be the main take out for the Dearborn Diversion Project.	Required per FERC Catawba River relicensing	$ 2,440,439	$ -	$ -	CC001748
103	FERC Bridgewater YANCEY ROAD ACCESS AREA	Hydro Plant in Service	Dec-25	Gravel parking lot and non-motorized boat launch, Bridgewater Hydro.	Required per FERC Catawba River relicensing	$ 1,860,073	$ -	$ -	BW000044
104	Cedar Creek Floodgate Refurbishment	Hydro Plant in Service	Dec-25	Capital Refurb of Cedar Creek Hydro Floodgates	The Cedar Creek floodgates are deteriorated and need to be refurbished to maintain operability. If a structural event were to occur with the floodgate, consequences could include uncontrolled release of lake water or Cedar Creek would not be able to pass water when necessary, either condition leading to a significant event.	$ 2,220,830	$ -	$ -	CC001718

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Oct 02 2023

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105	Wateree Bank 1 GSU Replacement	Hydro Plant in Service	Dec-25	Replacement of Wateree Bank 1 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,756,921	$ -	$ -	WA010141
106	FERC Lower Great Fals lReserve CanKay Launch	Hydro Plant in Service	Sep-25	Install Canoe/Kayak Launch at Lower Great Falls Reservoir	Required per FERC Catawba River relicensing	$ 1,594,440	$ -	$ -	GF001211
107	Bear Creek Generator Rewind	Hydro Plant in Service	Sep-25	Rewind Bear Creek Hydro Generator	New generator winding will accommodate unit uprate from new turbine runner	$ 2,721,618	$ -	$ -	BE000065
108	Nantahala U1 Spare Runner	Hydro Plant in Service	Aug-25	Procure Spare Runner for Nantahala Unit 1 Voith Turbine	Existing turbine runner shows some cracking. 60-70 week lead time for new runner.	$ 2,849,301	$ -	$ -	NA000699
109	Wateree Bank 4 GSU Replacement	Hydro Plant in Service	Jun-25	Replacement of Wateree Bank 4 Generator Step-Up (GSU) Transformer	Existing transformer is in degraded condition in need of replacement. Current lead time is 2 years for new transformer.	$ 3,747,014	$ -	$ -	WA040009
110	Cowans Ford Ramsey Creek Boat Ramp Replace	Hydro Plant in Service	Apr-25	Replace Ramsey Creek Access Boat Ramps	Ramsey Creek Boat Ramps have fallen into disrepair and need to be replaced	$ 1,444,620	$ -	$ -	CF000161
111	FERC Queens Creek PMF Wall Raise Dam Crest	Hydro Plant in Service	Apr-25	Raise Dam Crest at Queens Creek Hydro	Meet FERC requirements for Probable Maximum Flood (PMF) event	$ 1,691,451	$ -	$ -	QC000021
112	Bad Creek Tie Back Wall Anchor System	Hydro Plant in Service	Mar-25	Install new anchor system for tieback wall at Bad Creek Hydro	Existing tie back wall is moving due to soil nail anchors not being in stable ground.	$ 3,545,335	$ -	$ -	BA003109
113	Mt. Island U4 Trash Racks Stop Logs System	Hydro Plant in Service	Feb-25	Installation of new universal trash racks stop logs system attached to the forebay at Mt. Island Hydro	Units cannot be isolated using existing Lee Head Gate due to safety concerns. New universal trash racks stop logs system will provide unit isolation capability.	$ 4,802,504	$ -	$ -	MI040003
114	Lookout Shoals Service Water PVC Replacement	Hydro Plant in Service	Dec-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,063,021	$ -	$ -	LK000056
115	Queens Creek Replace GSU ENV	Hydro Plant in Service	Dec-24	Remove oil filled GSU transformer in Nantahala switchyard and replace with a dry type transformer.	The Queens Creek GSU transformer is oil filled and presents an environmental spill hazard. This transformer is located in the Nantahala switchyard adjacent to the tailrace.	$ 2,376,929	$ -	$ -	QC000016
116	Wylie Service Water PVC Replacement	Hydro Plant in Service	Aug-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,193,965	$ -	$ -	WY000081
117	Bear Creek Turbine Runner Replacement	Hydro Plant in Service	Jun-24	Replace Bear Creek Hydro Turbine Runner	Turbine Runner experienced catastophic failure in November 2022. Turbine was found to have cracked blades and additional damage due to cavitation.	$ 2,258,000	$ -	$ -	BE000064
118	Wateree Service Water PVC Replacement	Hydro Plant in Service	Mar-24	Replace PVC piping and valves within the station service water system with SS pipe and metal valves	Aging PVC pipe and valves installed during Hydrovision are in need of replacement.	$ 1,143,996	$ -	$ -	WA000972
119	FERC Ninety Nine Island PICKHILL RECONFIGURATION	Hydro Plant in Service	Mar-24	Reconfigure the Pickhill Access Area boat ramp	The Pickhill Access Area boat ramp continues to be overrun with silt, making the ramp unusable. Potential violation of FERC operating license if not kept in usable condition.	$ 1,450,335	$ -	$ -	NN000046
120	FERC Cowans Ford Beattys Ford Swim Area	Hydro Plant in Service	Feb-24	Construct Beatty's Ford Access/Swim Area	Required per FERC Catawba River relicensing	$ 4,297,668	$ -	$ -	CF001215
121	Jocassee Install AHU 1-5 Chillers WC Sys	Hydro Plant in Service	Feb-24	Install new chillers for Jocassee 1-5 Air Handling Units	The existing Air Handling Units 1-5 at Jocassee are at the end of their useful lives, and are experiencing leaks in the heat exhangers.	$ 4,582,787	$ -	$ -	JO000153
122	Bad Creek T/L Expansion Land Purchase	Hydro Plant in Service	Mar-24	Bad Creek Land Purchase	Property needed to expand Tranmission Line to support second powerhouse. Land held for future production use is a Unit of Property in the Capital listing.	$ 10,698,500	$ -	$ -	BA003096

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
123	Lincoln CT Exhaust Plenum Rplmt - 2026	Other Production Plant in Service	Dec-26	Replacement of the Lincoln U1-16 CT exhaust plenums. Two Power Blocks per year (4 units per year total)	The exhaust duct plenum/exhaust scroll for Lincoln 7EA gas turbines is degrading. Multiple hotspots are visible and detectable by IR surveys, indicating insulation failure. Exhaust gas leaks around the scroll joints are occurring and damaging the external skin. Continued degradation will lead to failure of the exhaust plenum and/or scroll.	$ 1,438,562	$ -	$ -	LCC00172
124	WS Lee 2026 CT12 LTSA	Other Production Plant in Service	Nov-26	WS LEE CC - U12 HOT GAS PATH INSPECTION SIEMENS Long Term Service Agreement (LTSA)	Maintenance is performed on the Siemens Gas Turbines at intervals based on unit run hours. The run hours will be achieved for a hot gas path inspection during this period.	$ 20,151,637	$ -	$ 1,484,507	LS120042
125	Rockingham CT OPTIM HGP Unit 1	Other Production Plant in Service	Nov-26	Perform a Hot Gas Path Inspection (HGPI) on Rockingham Unit 1 CT	Perform a standard hot gas path inspection in accordance with OEM engineering standards and the OPTIM Model for HGPI Interval Maintenance.	$ 9,298,814	$ -	$ -	RK010075
126	Rockingham CT OPTIM HGP Unit 5	Other Production Plant in Service	Nov-26	Perform a Hot Gas Path Inspection (HGPI) on Rockingham Unit 5 CT	Perform a standard hot gas path inspection in accordance with OEM engineering standards and the OPTIM Model for HGPI Interval Maintenance.	$ 8,559,091	$ -	$ -	RK050041
127	WS Lee 2026 CT11 LTSA	Other Production Plant in Service	Sep-26	WS LEE CC - U11 HOT GAS PATH INSPECTION SIEMENS Long Term Service Agreement (LTSA)	Maintenance is performed on the Siemens Gas Turbines at intervals based on unit run hours. The run hours will be achieved for a hot gas path inspection during this period.	$ 19,827,329	$ -	$ 1,445,149	LS110044
128	WS Lee OPTIM ST10 Valves 2026	Other Production Plant in Service	Jun-26	WS Lee CC Turbine Capital Valve Inspection/Repairs.	Steam Turbine Valves require inspeciton and/or repair at 3 year intervals per company and engineering practice.	$ 2,026,826	$ -	$ 1,190,054	LSCC0159
129	BKCC Ovation Evergreen	Other Production Plant in Service	Mar-26	Upgrade Buck CC Ovation Evergreen controls	Have up-to-date control system platforms to facilitate advanced Process Control Strategies such as combustion autotune, extended turndown and optimized steam temperature control.	$ 1,538,725	$ -	$ -	BKCC0257
130	Buck CTCC Rebuild B Chiller Units	Other Production Plant in Service	Mar-26	Rebuild Buck CC B Chiller Units	10-year chiller rebuild to maintain unit reliability for peak summer operation	$ 1,580,730	$ -	$ -	BKCC0217
131	DEC CT/CC Digital Automation	Other Production Plant in Service	Dec-25	Combustion Turbine/Combined Cycle Digital Automation Projects	Part of a 3 year plan to implement Alarming Optimization, Transition Operations Automation, On Line Monitoring & Remote Operation	$ 4,764,054	$ -	$ -	FHCT0099
132	Lincoln CT Exhaust Plenum Rplmt - 2025	Other Production Plant in Service	Dec-25	Replacement of the Lincoln U1-16 CT exhaust plenums. Two Power Blocks per year (4 units per year total)	The exhaust duct plenum/exhaust scroll for Lincoln 7EA gas turbines is degrading. Multiple hotspots are visible and detectable by IR surveys, indicating insulation failure. Exhaust gas leaks around the scroll joints are occurring and damaging the external skin. Continued degradation will lead to failure of the exhaust plenum and/or scroll.	$ 1,438,562	$ -	$ -	LCC00136
133	Mill Creek OPTIM CT CI Unit 7	Other Production Plant in Service	Nov-25	Mill Creek Unit 7 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U7 will be due for its 1st combustion inspection in 2023.	$ 1,805,892	$ -	$ -	MK071202
134	Mill Creek MK08 Compressor Blade Replacement	Other Production Plant in Service	Nov-25	Replace Mill Creek Unit 8 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,328,158	$ -	$ -	MK080002
135	Mill Creek MK07 Compressor Blade Replacement	Other Production Plant in Service	Nov-25	Replace Mill Creek Unit 7 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,327,229	$ -	$ -	MK070001
136	Buck CTCC OPTIM GT11 Stator Rewedge	Other Production Plant in Service	Sep-25	Rewedge Buck Unit 11 generator stator	Generator Stator rewedge interval determined per OPTIM recommendations	$ 1,592,499	$ -	$ -	BK110059
137	Mill Creek OPTIM CT CI Unit 8	Other Production Plant in Service	Jul-25	Mill Creek Unit 8 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U6 will be due for its 1st combustion inspection in 2022.	$ 1,803,231	$ -	$ -	MK081202
138	Buck CTCC OPTIM GT12 Stator Rewedge	Other Production Plant in Service	Jun-25	Rewedge Buck Unit 12 generator stator	Generator Stator rewedge interval determined per OPTIM recommendations	$ 1,587,794	$ -	$ -	BK120059
139	Buck CTCC HRSG 12 Replace Duct Burner Runners	Other Production Plant in Service	Apr-25	Replace HRSG Unit 12 duct burner runners.	Replacement of the runners/flame shields/baffles to ensure the correct flame distribution and mitigate risk of damage to tubes and liners. Upgrade the duct burner nozzles for duel fuel (natural gas/hydrogen).	$ 1,860,525	$ -	$ -	BK120075
140	Buck CTCC HRSG 11 Replace Duct Burner Runners	Other Production Plant in Service	Apr-25	Replace HRSG Unit 11 duct burner runners.	Replacement of the runners/flame shields/baffles to ensure the correct flame distribution and mitigate risk of damage to tubes and liners. Upgrade the duct burner nozzles for duel fuel (natural gas/hydrogen).	$ 1,860,525	$ -	$ -	BK110075

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
141	Buck CTCC Rebuild A Chiller Units	Other Production Plant in Service	Mar-25	Rebuild Buck CC A Chiller Units	10-year chiller rebuild to maintain unit reliability for peak summer operation	$ 1,580,730	$ -	$ -	BKCC0216
142	Mill Creek MK06 Compressor Blade Replacement	Other Production Plant in Service	Dec-24	Replace Mill Creek Unit 6 Stationary Compressor Blades	Address clashing in 7EA compressor by replacing stationary blades as identified by CT Engineering.	$ 1,329,334	$ -	$ -	MK060003
143	Mill Creek OPTIM CT CI Unit 6	Other Production Plant in Service	Dec-24	Mill Creek Unit 6 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U6 will be due for its 1st combustion inspection in 2022.	$ 1,805,949	$ -	$ -	MK060004
144	Dan River Cooling tower VFD install	Other Production Plant in Service	Aug-24	Install Variable Frequency Drives (VFD) on Dan River CC cooling tower motors	Current motors failing before expected life. Variable frequency drives with extend motor life and reduce number of start/stops.	$ 2,247,900	$ -	$ -	DRCC0229
145	WS Lee CT 7C & 8C Diesel Fuel Tanks	Other Production Plant in Service	Jul-24	Install new diesel fuel tanks and unloading station as WS LEE CTs	WS Lee CT 7C and 8C serve as emergency backup units for Oconee Nuclear Station. Current diesel tank is approximately 60 years old and in need of replacement to mitigate potential environmental risk in case of a failure.	$ 7,965,375	$ -	$ -	LSC00073
146	Mill Creek OPTIM CT CI Unit 5	Other Production Plant in Service	May-24	Mill Creek Unit 5 Combustion Inspection	Based on a target fired start interval of 600 per OPTIM, Mill Creek U5 will be due for its 1st combustion inspection in 2022.	$ 1,803,158	$ -	$ -	MK050003
147	Belews Creek Replace Valves 2-BU-200-1 and 2	Steam Plant in Service	Jun-26	Replace both 18" special class 2500 parallel slide gate startup steam valves 2-BU-200-1 and 2-BU-200-2	Similar valve on Unit 2 (2-BU-200-2) experienced a stellite coating failure of the downstream seat ring, which resulted in a failed startup	$ 1,354,332	$ -	$ -	BC020470
148	Belews Creek OPTIM HP Major Unit 2	Steam Plant in Service	May-26	High pressure turbine major outage inspection and capital component replacements	Inspection based on Unit run time evaluated by OPTIM	$ 1,266,686	$ -	$ -	BC020486
149	Belews Creek OPTIM ST Valve CV/GV 1-3-5-7 U2	Steam Plant in Service	May-26	Replace/Rebuild capital components of Belews Creek Unit 2 Steam Turbine Valves	The inspection interval for these valves is based on OPTIM unit start recommendations.	$ 3,823,215	$ -	$ -	BC020493
150	Cliffside CS06 Install Flyash Line Heat Ex	Steam Plant in Service	May-26	Install an electric heat exchanger to heat the air conveying the dry fly ash.	The unit 6 fly ash system is plugging at the top most elbow in the A and B lines.	$ 1,059,023	$ -	$ -	CS060229
151	Marshall U3B Booster Fan Rotor Replacement	Steam Plant in Service	May-26	Replace Marshall Unit 3B Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,203,074	$ -	$ -	MS030238
152	Cliffside Replace recycle pumps A, B, D, E	Steam Plant in Service	May-26	Replace remaining scrubber recycle pumps A, B, D, E.	Recycle pumps have reached end of life and need to be replaced.	$ 3,187,347	$ -	$ -	CS060271
153	Cliffside CS6 Replace Condensate Recovery	Steam Plant in Service	Apr-26	Replace Cliffside Unit 6 air heater steam coil recovery system.	Existing condensate recovery system with steam driven pumps is not reliable.	$ 1,164,801	$ -	$ -	CS060123
154	Belews Creek Replace U1 Bentley Nevada equipment	Steam Plant in Service	Dec-25	Replace the Unit 1 Bentley Nevada vibration equipment with Ovation Machinery Health Monitors	The existing Bentley Nevada systems are near or past end of life. The System 1 was removed in 2020.	$ 2,982,566	$ -	$ -	BC010732
155	Marshall 600V 2XA MCC Replacements	Steam Plant in Service	Dec-25	Replace Marshall Unit 2XA Motor Control Center	Existing parts are obsolete and difficult to source	$ 1,223,576	$ -	$ -	MS021362
156	Cliffside U6 New ICE Shop	Steam Plant in Service	Oct-25	Construct new shop/office for Cliffside Instrumentation & Controls group	Current shop is located in Unit 5 boiler bldg. Will need to be moved to Unit 6 after Unit 5 is retired.	$ 989,408	$ -	$ -	CS560217
157	Cliffside CS06 Air Comp Controls Upgrade	Steam Plant in Service	Oct-25	Upgrade Cliffside Unit 6 Air Compressor Controls from Programmable Logic Controllers (PLC) to Ovation digital controls	Allows compressor control for unit control room	$ 1,424,950	$ -	$ -	CS060281
158	Marshall MS1 600V 1XA MCC Replacement	Steam Plant in Service	Oct-25	Replace Marshall Unit 1XA Motor Control Center	Existing parts are obsolete and difficult to source	$ 1,281,318	$ -	$ -	MS011393

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
159	Belews Creek D10 Certified Rebuild 2025	Steam Plant in Service	Sep-25	Capital Rebuild of Belews Creek Coal Handling D10 bulldozer	Dozer rebuild intervals based on operating hours	$ 1,611,146	$ -	$ -	BC001085
160	Marshall MS3 TUBE CLEANING REPLACEMENT	Steam Plant in Service	Aug-25	Replace Marshall Unit 3 CONDENSER TUBE CLEAING SYSTEM	The existing condenser ball cleaing system is original and has started failing	$ 1,069,419	$ -	$ -	MS030276
161	Belews Creek OPTIM ST DFLP Major U1	Steam Plant in Service	May-25	Disassemble, inspect, and reassemble the Belews Creek Unit 1 "A" and "B" Double Flow Low Pressure (DFLP) Turbines	A & B Double Flow Low Pressure (DFLP) Turbines are due for a Major Inspection per OPTIM recommendations.	$ 5,381,960	$ -	$ -	BC010466
162	Belews Creek OPTIM Gen MJR U1HP	Steam Plant in Service	May-25	Rewind Belews Creek U1 Generator	Rotor Windings are at the end of life. In addition, runtime hours indicates need to inspect the internals.	$ 6,938,351	$ -	$ -	BC010558
163	Cliffside CS06 SCR Catalyst Replacement	Steam Plant in Service	May-25	Replace Cliffside Unit 6 SCR Catalyst Layer 1	Based on material test results, layer 1 is deactivated and needs replacement	$ 1,254,769	$ -	$ -	CS060259
164	Belews Creek OPTIM ST Valve RHSVIVTVGV U1	Steam Plant in Service	May-25	Replace/Rebuild capital components of Belews Creek Unit 1 Steam Turbine Valves	The inspection interval for these valves is based on OPTIM unit start recommendations.	$ 4,394,328	$ -	$ -	BC010741
165	Belews Creek Replace Valves 1-BU-200-1 and 2	Steam Plant in Service	May-25	Replace both 18" special class 2500 parallel slide gate startup steam valves 1-BU-200-1 and 1-BU-200-2	Similar valve on Unit 2 (2-BU-200-2) experienced a stellite coating failure of the downstream seat ring, which resulted in a failed startup	$ 1,224,043	$ -	$ -	BC010722
166	Marshall U4A Booster Fan Rotor Replacement	Steam Plant in Service	May-25	Replace Marshall Unit 4A Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,230,643	$ -	$ -	MS040200
167	Belews Creek OPTIM Exciter MJR U1HP	Steam Plant in Service	May-25	Rewind BC1 HP Exciter field coils, refurbish and straighten base, rewire base, retube coolers and perform inspection of rotor	BC1 HP exciter base, wiring and field coils are 40+ years old. Field coil insulation issues are developing, which is a unit reliability risk.	$ 1,401,232	$ -	$ -	BC010396
168	Cliffside CS06 add disch isolation for ARP	Steam Plant in Service	May-25	Add discharge gate valves to all Cliffside Unit 6 Absorber Recycle Pumps.	Provide on-line isolation to perform maintenance without an outage	$ 4,159,913	$ -	$ -	CS060272
169	Cliffside Replace SHRH bias dampers	Steam Plant in Service	Apr-25	Replace boiler superheat and reheat bias dampers	The bearings used in the damper mechanism have had their supports removed during past outages to free the seized dampers. The dampers are no longer functional as a result of removing the bearing supports	$ 2,249,944	$ -	$ -	CS060098
170	Belews Creek Replace Unit 2 Bentley Nevada equip	Steam Plant in Service	Dec-24	Replace the Unit 2 Bentley Nevada vibration equipment with Ovation Machinery Health Monitors	The existing Bentley Nevada systems are near or past end of life. The System 1 was removed in 2020.	$ 2,378,206	$ -	$ -	BC020481
171	Marshall Service Building Roof Replacement	Steam Plant in Service	Nov-24	Repace Marshall Service Bldg Roof	Roof has many patches and currently leaks in several places.	$ 1,114,777	$ -	$ -	MS001216
172	Cliffside CS06 B ID Fan Rotor Replacement	Steam Plant in Service	Nov-24	Replace Cliffside Unit 6 B Induced Draft fan rotor assembly	Rotor replacement interval based on run time to failure of similar fans	$ 2,580,572	$ -	$ -	CS060168
173	Cliffside CS06 HPT Major & Inlet Pipe Rep	Steam Plant in Service	Nov-24	Project to replace the Cliffside Unit 6 HP Turbine Inlet Pipes (snouts) and sealing rings and perform HP turbine major inspection.	Other utilities have experienced failures of similar design HP Turbine inlet pipes and seal rings	$ 2,669,168	$ -	$ -	CS060243
174	Cliffside CS06 Baghouse Bag Replacements	Steam Plant in Service	Nov-24	Replace all 21,504 filter bags in the Cliffside Unit 6 A and B baghouse	The standard life for a baghouse bag in an ash service is between 4 to 5 years.	$ 2,721,398	$ -	$ -	CS060283
175	Marshall HCAD Tripper Room Transfer Chutes	Steam Plant in Service	Nov-24	Install new coal tripper room transfer chutes at Marshall	Mitigate potential combustible dust issues in tripper room	$ 1,314,686	$ -	$ -	MS001126
176	Belews Creek BC2 H2 Cooler Retube and Coating	Steam Plant in Service	Oct-24	Retube the Unit 2 low pressure hydrogen coolers (4)	2022 eddy current testing found 136 tubes (15%) on the HP coolers with severe damage and 89 tubes (12%) on the LP coolers with severe damage.	$ 1,476,492	$ -	$ -	BC020480

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
177	Marshall Replace Drinking Water Main Piping	Steam Plant in Service	Sep-24	Replace Marshall Drinking Water Main Piping	Installation of new City Water connection with water supply line	$ 1,459,248	$ -	$ -	MS001391
178	Belews Creek D10 Dozer Certified Rebuild	Steam Plant in Service	Sep-24	Capital Rebuild of Belews Creek Coal Handling D10 bulldozer	Dozer rebuild intervals based on operating hours	$ 1,611,146	$ -	$ -	BC001084
179	Marshall MS4 BOILER BAFFLES	Steam Plant in Service	Aug-24	INSTALL BOILER BAFFLES IN Marshall Unit 4 FURNACE TO PREVENT BOILER VIBRATION	MS4 Boiler is vibrating during all gas operation. The vibration is causing a forced derate on the unit. Need to install boiler baffles to eliminate the forced derate.	$ 1,380,793	$ -	$ -	MS040234
180	Marshall 2024 MS3 SCR Catalyst Replacement	Steam Plant in Service	Jun-24	Replace Marshall Unit 3 SCR Catalyst Layer	SCR Catalyst layer replacements are based on material test samples of remaining reactivity	$ 1,653,560	$ -	$ -	MS030277
181	Belews Creek BC02 SCR Catalyst Layer Replacement	Steam Plant in Service	Jun-24	Replacement of one layer of SCR catalyst on Unit 2	SCR Catalyst layer replacements are based on material test samples of remaining reactivity	$ 4,030,106	$ -	$ -	BC020473
182	Marshall U3A Booster Fan Rotor Replacement	Steam Plant in Service	May-24	Replace Marshall Unit 3A Booster Fan Rotor	The booster fan rotor needs to be replaced every 3 to 6 years based on historical failure intervals	$ 1,177,504	$ -	$ -	MS030237
183	Cliffside OPTIM 2024 ST VALVE SVCV CS6	Steam Plant in Service	Mar-24	Replace Unit 6 Steam Turbine Capital Valves/Actuator components	Replacement interval based on historical unit start/stops to failure	$ 1,033,617	$ -	$ -	CS061205
184	Marshall 1A Mill Motor Refurbishment	Steam Plant in Service	Oct-25	Rewind Marshall Unit 1A Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS010429
185	Marshall 4A CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 4A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -	MS040226
186	Marshall 4C CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 4C Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -	MS040228
187	Marshall 1A ID Fan Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1A Induded Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -	MS010424
188	Marshall 1B ID Fan Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1B Induded Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -	MS010426
189	Marshall 1HP MG Set Exciter Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1 Motor/Generator set	MCE electrical test results indicate need for repair/rewind	$ 156,250	$ -	$ -	MS010435
190	Marshall 1D Mill Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1D Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS010431
191	Marshall 1E Mill Motor Refurbishment	Steam Plant in Service	Nov-24	Rewind Marshall Unit 1E Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS010432
192	Marshall 1 4kV Relay System Obsolete	Steam Plant in Service	Nov-24	Replace old electromechanical relays on Marshall Unit 1 4kV breakers with electronic SEL relays.	The new relays provide additional protection and collect data for troubleshooting purposes.	$ 1,187,500	$ -	$ -	MS011321
193	Marshall 4B FD Fan Motor Refurbishment	Steam Plant in Service	Jun-24	Rewind Marshall Unit 4B Forced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -	MS040236
194	Marshall 4D Mill Motor Refurbishment	Steam Plant in Service	Jun-24	Rewind Marshall Unit 4D Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS040235

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
195	Marshall 1A CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 1A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -	MS010406
196	Marshall 2B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 2B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -	MS020189
197	Marshall 4B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 4B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -	MS040227
198	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-23	Cliffside Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	CS560213
199	Marshall Soot blower maintenance	Steam Plant in Service	Dec-23	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	MS001194
200	Belews Creek Soot blower maintenance	Steam Plant in Service	Dec-24	Belews Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	BC001080
201	Marshall FGD A BALL MILL LIFTING BARS	Steam Plant in Service	Dec-24	Replace Marshall Unit 1A Ball Mill Lifting Bars	Maintain reliability of FGD scrubber	$ 437,500	$ -	$ -	MS010404
202	Marshall 1B Mill Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 1B Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS010430
203	Marshall 2A ID Fan Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2A Induced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -	MS020196
204	Marshall 2B ID Fan Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2B Induced Draft fan motor	MCE electrical test results indicate need for repair/rewind	$ 168,750	$ -	$ -	MS020197
205	Marshall 2HP MG Set Exciter Motor Refurbishment	Steam Plant in Service	Nov-23	Rewind Marshall Unit 2 Motor/Generator set	MCE electrical test results indicate need for repair/rewind	$ 156,249	$ -	$ -	MS020198
206	Marshall 3E Mill Motor Refurbishment	Steam Plant in Service	Oct-23	Rewind Marshall Unit 3E Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS030279
207	Marshall 3F Mill Motor Refurbishment	Steam Plant in Service	Jul-23	Rewind Marshall Unit 3F Coal Mill motor	MCE electrical test results indicate need for repair/rewind	$ 150,000	$ -	$ -	MS030280
208	Marshall 2A CCW Pump Rebuild/Replacement	Steam Plant in Service	Nov-23	Capital Rebuild of Marshall Unit 2A Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 445,694	$ -	$ -	MS020187
209	Marshall 3C CCW Pump Rebuild/Replacement	Steam Plant in Service	May-25	Capital Rebuild of Marshall Unit 3C Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -	MS030264
210	Marshall 3B CCW Pump Rebuild/Replacement	Steam Plant in Service	May-24	Capital Rebuild of Marshall Unit 3B Circulating Cooling Water Pump	Need both CCW pumps to operate at maximum capacity and reduce chance of derates during summer operation	$ 400,694	$ -	$ -	MS030268
211	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-24	Cliffside Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	CS00XXXX
212	Marshall Soot blower maintenance	Steam Plant in Service	Dec-25	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	MS00XXXX

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Oct 02 2023

Line No.	MYRP Project Name	FERC Function	Project Forecasted In-Service Date	MYRP Project Description & Scope	Reason for the MYRP Project	Projected In-Service Costs	Projected Annual Net O&M	Projected Installation O&M	FP
213	Cliffside Soot blower maintenance	Steam Plant in Service	Dec-25	Cliffside Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	CS00XXXX
214	Marshall HDP Motor Refurbishment	Steam Plant in Service	Dec-24	Marshall Heater Drain Pump Capital Rebuild	Maintain boiler reliability	$ 200,000	$ -	$ -	MS00XXXX
215	Marshall 4B BCP Capital Rebuild	Steam Plant in Service	Nov-25	Marshall Unit 4B boiler circulating pump capital rebuild	Maintain boiler reliability	$ 375,000	$ -	$ -	MS00XXXX
216	Marshall 4A FD Fan Motor Refurbishment	Steam Plant in Service	May-24	Marshall Unit 4A forced draft fan motor capital rebuild	Maintain boiler reliability	$ 168,750	$ -	$ -	MS00XXXX
217	Marshall Soot blower maintenance	Steam Plant in Service	Nov-24	Marshall Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	MS00XXXX
218	Marshall 4A BCP Capital Rebuild	Steam Plant in Service	Jan-24	Marshall Unit 4A boiler circulating pump capital rebuild	Maintain boiler reliability	$ 375,000	$ -	$ -	MS00XXXX
219	Belews Creek Soot blower maintenance	Steam Plant in Service	Dec-25	Belews Creek Boiler Sootblower/Wallblower replacements	Maintain blower condition to ensure reliability during operation	$ 150,000	$ -	$ -	BC00XXXX
220	DEC Winterization Capital Projects	Steam Plant in Service	Dec-25	Implement identified capital winterization projects	Improve unit severe cold weather reliability	$ 6,000,000	$ -	$ -	FHGOXXXX
221	Belews Creek Breaker/Bus Mainteance	Steam Plant in Service	Dec-25	Belews Creek Boiler 2025 Capital and O&M Outage - Coal	Boiler and Balance of Plant reliability projects	$ 150,000	$ -	$ -	BC00XXXX
222	FERC Cedar Cliff Dam IDF Spillway&Gate House	Hydro Plant in Service	Jun-24	Capacity of the auxiliary spillway at Cedar Creek will be increased along with the installation of a fuse gate system that will allow increasing amounts of water to pass without overtopping the dam.	FERC has required that all licensees/owners of dams evaluate the ability of each of their dams to withstand and/or safety pass significant inflows from newer postulated extreme weather events (rainfall). Preliminary studies of Cedar Cliff Dam indicate insufficient means to manage inflows incrementally (spillways) as well as maximum possible flood (inflow Design Flood or IIDF).	$ 50,899,728	$ -	$ -	CE000012
	TOTALS					**$ 1,079,402,677**	**$ 4,254,133**	**$ 5,899,314**	

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Row #	Row No. from Walsh Second Supplemental Exhibit 1	MYRP Name	Funding Project	Projected In-Service	Similar Projects Challenged in DEP?	Similar DEP Project	Notes
1	4	Compressor Blade Replacement	MK050001	Jun-24	No	Smith CT Unit 7 HGPI and Compressor Replacement	Routine capital work that occurs repeatedly across the fleet; early stage of development.
2	6	WS Lee CTs 2024 Ovation Evergreen	LSC00100	Oct-24	No	HF Lee Emerson Ovation BOP Evergreen	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
3	9	WS Lee CC Spare GSU Containment	LSCC0146	Aug-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
4	10	Buck CC Oily Water Separator (OWS) Replacement	BKCC0186	Dec-26	No	RX01- Replace Oily Waste Separator	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
5	11	Rockingham CT RK04 Gen Stator and Rotor Rewind	RK040015	May-25	No	ACC ST6 Generator Stator Rewind	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
6	12	Rockingham CT RK05 Gen Stator and Rotor Rewind	RK050001	Sep-26	No	ACC ST8 Generator Stator Rewind	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
7	23	Great Falls Replace Headworks Rake and Racks	GF000039	Oct-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
8	26	FERC Cowans Ford Stumpy Creek Access Area	CF001208	Dec-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
9	31	FERC Lookout Shoals Upper Access Area	LK001205	Sep-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
10	32	Lookout Shoals Replace Jr Generator Headgate	LK000029	May-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
11	36	Fishing Creek U3 Headgate Replacement	FC030009	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
12	37	FERC Great Falls Pedestrian Bridge	GF000058	Sep-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
13	39	Jocassee Replace 9070 Controls	JO001239	Nov-26	No	TL U1-4 Replace Controls	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
14	41	FERC Bridgewater Fonta Flora Access Area	BW001210	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
15	42	Jocassee DFSP Ramp Replacement	JO000204	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
16	43	FERC Mountain Island Riverbend Access Area	MI001205	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
17	48	FERC Wateree Taylor Creek Bank Fishing	WA001206	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
18	49	FERC Linville Canoe Kayak Access Area	BW001212	Jun-26	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
19	50	FERC Thorpe Hydro Trout Crk Pipeline Coatings	TH000011	Jul-26	No similar project in DEP		Routine capital work that occurs repeatedly across the fleet; initial stage of development.
20	51	Fishing Creek U4 Headgate Replacement	FC040010	Aug-26	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
21	52	Fishing Creek U5 Headgate Replacement	FC050008	Aug-26	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
22	57	FERC Bridgewater Pocket Park At Dam LJ Loop	BW001211	Dec-26	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
23	58	Fishing Creek U3 Replace Wear Rings	FC031204	Dec-26	No similar project in DEP		Routine capital work that occurs repeatedly across the fleet; early stage of development.
24	59	Jocassee Warehouse Replace Siding Roof	JO000151	Dec-26	No	WT Powerhouse Roof Replacement	Routine capital work that occurs repeatedly across the fleet; early stage of development.
25	78	Cliffside CS06 Template Turbine MajorValve	CS060059	May-26	No	Asheville ST Valves Unit 6	Routine capital work that occurs repeatedly across the fleet; early stage of development.
26	95	Rockingham CT RK01 Gen Stator and Rotor Rewind	RK010068	Nov-26	No	ACC ST6 Generator Stator Rewind	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
27	96	Rockingham CT RK03 Gen Stator and Rotor Rewind	RK030040	Oct-25	No	ACC ST8 Generator Stator Rewind	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
28	99	Tennessee Creek Wolf Creek Replace Intake Hoist	TC000309	Dec-26	No	WT Upgrade Intake Hoist System	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
29	103	FERC Bridgewater YANCEY ROAD ACCESS AREA	BW000044	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
30	104	Cedar Creek Floodgate Refurbishment	CC001718	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
31	107	Bear Creek Generator Rewind	BE000065	Sep-25	No	Ashevi le Unit 04 Generator Field Rewind	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
32	110	Cowans Ford Ramsey Creek Boat Ramp Replace	CF000161	Apr-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
33	114	Lookout Shoals Service Water PVC Replacement	LK000056	Dec-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
34	116	Wylie Service Water PVC Replacement	WY000081	Aug-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
35	118	Wateree Service Water PVC Replacement	WA000972	Mar-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
36	124	WS Lee 2026 CT12 LTSA	LS120042	Nov-26	No	Smith CT Unit 10 LTSA HGPI	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
37	125	Rockingham CT OPTIM HGP Unit 1	RK010075	Nov-26	No	HF Lee 01A LTSA HGPI	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
38	126	Rockingham CT OPTIM HGP Unit 5	RK050041	Nov-26	No	HF Lee 01B LTSA HGPI	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
39	127	WS Lee 2026 CT11 LTSA	LS110044	Sep-26	No	Smith CT Unit 9 LTSA HGPI	Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
40	128	WS Lee OPTIM ST10 Valves 2026	LSCC0159	Jun-26	No	Asheville ST Valves Unit 8	Routine capital work that occurs repeatedly across the fleet; early stage of development.
41	131	DEC CT/CC Digital Automation	FHCT0099	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
42	133	Mill Creek OPTIM CT CI Unit 7	MK071202	Nov-25	No	Asheville OPTIM CT CI Unit 4	Routine capital work that occurs repeatedly across the fleet; early stage of development.
43	142	Mill Creek MK06 Compressor Blade Replacement	MK060003	Dec-24	No	Smith CT Unit 7 HGPI and Compressor Replacement	Routine capital work that occurs repeatedly across the fleet; early stage of development.
44	143	Mill Creek OPTIM CT CI Unit 6	MK060004	Dec-24	No	Asheville OPTIM CT CI Unit 4	Routine capital work that occurs repeatedly across the fleet; early stage of development.
45	144	Dan River Cooling tower VFD install	DRCC0229	Aug-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
46	145	WS Lee CT 7C & 8C Diesel Fuel Tanks	LSC00073	Jul-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.
47	146	Mill Creek OPTIM CT CI Unit 5	MK050003	May-24	No	Asheville OPTIM CT CI Unit 4	Routine capital work that occurs repeatedly across the fleet; early stage of development.
48	149	Belews Creek OPTIM ST Valve CV/GV 1-3-5-7 U2	BC020493	May-26	No	HF Lee Unit 1 ST Valve	Routine capital work that occurs repeatedly across the fleet; early stage of development.
49	161	Belews Creek OPTIM ST DFLP Major U1	BC010466	May-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
50	162	Belews Creek OPTIM Gen MJR U1HP	BC010558	May-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
51	163	Cliffside CS06 SCR Catalyst Replacement	CS060259	May-25	No	RX01 Replace SCR Catalyst Layer	Routine capital work that occurs repeatedly across the fleet; early stage of development.
52	164	Belews Creek OPTIM ST Valve RHSVIVTVGV U1	BC010741	May-25	No	Asheville ST Valves Unit 8	Routine capital work that occurs repeatedly across the fleet; early stage of development.
53	167	Belews Creek OPTIM Exciter MJR U1HP	BC010396	May-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
54	171	Marshall Service Building Roof Replacement	MS001216	Nov-24	No	WT Powerhouse Roof Replacement	Routine capital work that occurs repeatedly across the fleet; initial stage of development.
55	174	Cliffside CS06 Baghouse Bag Replacements	CS060283	Nov-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
56	175	Marshall HCAD Tripper Room Transfer Chutes	MS001126	Nov-24	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; early stage of development.
57	183	Cliffside OPTIM 2024 ST VALVE SVCV CS6	CS061205	Mar-24	No	HF Lee Unit 1 ST Valve	Routine capital work that occurs repeatedly across the fleet; early stage of development.
58	184	Marshall 1A Mill Motor Refurbishment	MS010429	Oct-25	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
59	185	Marshall 4A CCW Pump Rebuild/Replacement	MS040226	May-25	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
60	186	Marshall 4C CCW Pump Rebuild/Replacement	MS040228	May-25	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
61	187	Marshall 1A ID Fan Motor Refurbishment	MS010424	Nov-24	No	Roxboro 4- ROX 4 ID Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
62	188	Marshall 1B ID Fan Motor Refurbishment	MS010426	Nov-24	No	Roxboro 4- ROX 4 ID Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
63	189	Marshall 1HP MG Set Exciter Motor Refurbishment	MS010435	Nov-24	No similar project in DEP		Routine capital work that occurs repeatedly across the fleet; early stage of development.
64	190	Marshall 1D Mill Motor Refurbishment	MS010431	Nov-24	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
65	191	Marshall 1E Mill Motor Refurbishment	MS010432	Nov-24	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
66	193	Marshall 4B FD Fan Motor Refurbishment	MS040236	Jun-24	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
67	194	Marshall 4D Mill Motor Refurbishment	MS040235	Jun-24	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
68	195	Marshall 1A CCW Pump Rebuild/Replacement	MS010406	May-24	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
69	196	Marshall 2B CCW Pump Rebuild/Replacement	MS020189	May-24	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
70	197	Marshall 4B CCW Pump Rebuild/Replacement	MS040227	May-24	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
71	201	Marshall FGD A BALL MILL LIFTING BARS	MS010404	Dec-24	No	Roxboro 4- ROX 4 FD Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; early stage of development.
72	203	Marshall 2A ID Fan Motor Refurbishment	MS020196	Nov-23	No	Roxboro 4- ROX 4 ID Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; initial stage of development.
73	204	Marshall 2B ID Fan Motor Refurbishment	MS020197	Nov-23	No	Roxboro 4- ROX 4 ID Fan Motor Reconditioning	Routine capital work that occurs repeatedly across the fleet; initial stage of development.
74	205	Marshall 2HP MG Set Exciter Motor Refurbishment	MS020198	Nov-23	No similar project in DEP		Routine capital work that occurs repeatedly across the fleet; initial stage of development.
75	208	Marshall 2A CCW Pump Rebuild/Replacement	MS020187	Nov-23	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; initial stage of development.

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Aug 02 2023

DEC
E-7 Sub 1276
Walsh Rebuttal Exhibit 1
Page 2 of 2

		MYRP Name	Funding Project	Service	Challenged in	Similar DEP Project	Notes
76	210	Marshall 3B CCW Pump Rebuild/Replacement	MS030268	May-24	No	ROX FGD AR Pumps-Rebuilds Required	Routine capital work that occurs repeatedly across the fleet; early stage of development.
77	220	DEC Winterization Capital Projects	FHCT0100	Dec-25	No similar project in DEP		Low complexity project involving minimal level of engineering design equipment re-configuration or other analysis to implement; initial stage of development.