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August 25, 2025

VIA: ELECTRONIC FILING

Mr. Adam J. Teitzman Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Re: Environmental Cost Recovery Clause

FPSC Docket No. 20250007-EI

Dear Mr. Teitzman:

Attached for filing in the above docket, on behalf of Tampa Electric Company, is the Prepared Direct Testimony of Byron T. Burrows Environmental Cost Recovery Clause 2026 Projections.

Thank you for your assistance in connection with this matter.

Sincerely,

Malcolm N. Means

Meliolo N. Means

MNM/bml Attachments

cc: All Parties of Record (w/attachment)

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Testimony of Byron T. Burrows, filed on behalf of Tampa Electric Company, have been furnished by electronic mail on this 25th day of August 2025, to the following:

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20250007-EI

ENVIRONMENTAL COST RECOVERY FACTORS

PROJECTIONS

JANUARY 2026 THROUGH DECEMBER 2026

TESTIMONY

OF

BYRON T. BURROWS

FILED: AUGUST 25, 2025

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

BYRON T. BURROWS

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Q. Please state your name, address, occupation, and employer.

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A. My name is Byron T. Burrows. My business address is 3600 Midtown Drive, Tampa, FL 33607. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Senior Director, Environmental Services Department.

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Q. Please provide a brief outline of your educational background and business experience.

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I received a Bachelor of Science degree in Civil Α. Engineering from the University of South Florida in 1995. I have been a Registered Professional Engineer in the state of Florida since 1999. Prior to joining Tampa worked in environmental consulting for Electric, I sixteen years. In January 2001, I joined TECO Power Services as Manager-Environmental with primary responsibility for all power plant environmental permitting, and I have primarily worked in the areas of

environmental, health, and safety. In 2005, I became Manager - Air Programs. My responsibilities included air permitting and compliance related matters. In 2020, I was promoted to my current position. My responsibilities the development and administration company's environmental policies and goals. I am also responsible for ensuring resources, procedures, programs comply with applicable environmental requirements, and that rules and policies are in place, function properly, and are consistently applied throughout the company.

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Q. What is the purpose of your testimony in this proceeding?

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A. The purpose of my testimony is to demonstrate that the activities for which Tampa Electric seeks cost recovery through the Environmental Cost Recovery Clause ("ECRC") for the January 2026 through December 2026 projection period are activities related to programs previously approved by the Commission for recovery through the ECRC.

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Q. Please identify and describe the programs included for expenditure recovery that you will discuss.

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A. The programs included for expenditure recovery in this

1	fili	ng that I will discuss, include the following
2	proj	ects:
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4	1)	Big Bend PM Minimization and Monitoring
5	2)	Big Bend 4 SCR
6	3)	Big Bend Unit 3 Flue Gas Desulfurization ("FGD")
7		Integration
8	4)	SO2 Emissions Allowances
9	5)	Big Bend Units 1 and 2 FGD
10	6)	NPDES Annual Surveillance Fees
11	7)	Bayside SCR Consumables
12	8)	Clean Water Act Section 316(b) Phase II Study
13	9)	Big Bend Unit 1 Section 316(b) Impingement Mortality
14	10)	Bayside Section 316(b) Compliance
15	11)	Big Bend FGD System Reliability
16	12)	Arsenic Groundwater Standard
17	13)	Mercury and Air Toxics Standards ("MATS")
18	14)	Greenhouse Gas ("GHG") Reduction Program
19	15)	Big Bend Gypsum Storage Facility
20	16)	Coal Combustion Residuals ("CCR") Rule - Phase I and
21		II
22	17)	Big Bend Effluent Limitations Guidelines ("ELG")
23		Rule Compliance
24	18)	Big Bend NESHAP Subpart YYYY Compliance
25	19)	Bayside 316(a) Thermal Variance Study

20) Big Bend CCR Rule Legacy Amendment Study

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Q. Please describe the Big Bend PM Minimization and Monitoring program activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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Α. The Commission approved the Big Bend PM Minimization and Monitoring Program in Order No. PSC-2000-2104-PAA-EI, issued November 6, 2000 in Docket No. 20001186-EI. In that Order, the Commission found that the program met the requirements for recovery through the ECRC. This program includes various projects to improve precipitator performance and reduce PM emissions as required by the Title V Operating Permit for Big Bend Station. Tampa Electric does not anticipate any capital expenditures for this program during 2026; however, the O&M expenditures associated with Best Operating Practice and Procedures ("BOP") and Best Available Control Technology ("BACT") equipment are expected to total \$69,600.

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Q. Please describe the Big Bend Unit 4 SCR project and provide estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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The Commission approved the Big Bend Unit 4 SCR project Α. in Order No. PSC-2004-0986-PAA-EI, issued October 11, 2004 in in Docket No. 20040750-EI. The SCR project at Big Bend Unit 4 encompasses the design, procurement, installation, and annual O&M expenditures associated with an SCR system for the generating unit. Tampa Electric placed the SCR for Big Bend Unit 4 in service in May 2007. Tampa Electric does not anticipate any capital expenditures for this program during 2026; however, the company does project \$210,777 in O&M expenditures for Big Bend Unit 4 SCR in 2026. These expenses are primarily associated with ammonia purchases and maintenance.

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Q. Please describe the Big Bend Unit 3 Flue Gas Desulfurization ("FGD") Integration and the Big Bend Units 1 and 2 FGD programs and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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A. The Big Bend Unit 3 FGD Integration program was approved by the Commission in Docket No. 19960688-EI, Order No. PSC-1996-1048-FOF-EI, issued August 14, 1996. The Commission approved the Big Bend Units 1 and 2 FGD program in Order No. PSC-1999-0075-FOF-EI, issued January 11, 1999 in Docket No. 19980693-EI. In these orders, the

Commission found that the programs met the requirements for recovery through the ECRC. The programs were implemented to meet the SO_2 emission requirements of the Phase I and II Clean Air Act Amendments ("CAAA") of 1990.

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The company does not anticipate any capital or O&M expenditures during the period of January 2026 through December 2026 for the Big Bend Unit 3 FGD Integration project or the Big Bend Units 1 & 2 FGD project assets.

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Q. What is the Gannon Thermal Discharge Study Project?

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The Gannon Thermal Discharge Study was a requirement under Α. Gannon's NPDES permit to evaluate the methodology that would be required to comply with Section 316(a) of the Clean Water Act. Gannon Power Station was repowered and renamed the H.L. Culbreath Bayside Power Station in 2003. During the National Pollutant Discharge Elimination System ("NPDES") permit renewal in 2022, the Florida Department of Environmental Protection ("FDEP") determined that Bayside should complete the Study again under the new facility name. As such, the Gannon Thermal Discharge Study project is replaced by and subsumed into the Bayside 316(a) Thermal Variance Study Project which was approved by Commission Order PSC-2024-0482-FOF-EI on November 5, 2024 and any further expenses will be recovered under the Bayside program on an energy basis.

Q. What is the Bayside 316(a) Thermal Variance Study?

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A. Bayside 316(a) Thermal Variance Study is a thermal variance study required under Bayside's new NPDES Permit issued December 2022. The new permit required Tampa Electric to submit a plan of study by December 2023 for the completion of a new thermal study, and implementation of the plan within 24 months of the FDEP's approval of the plan. Tampa Electric submitted the plan of study in November of 2023 and began implementing the study in May of 2025. The O&M expenditures are estimated to total \$100,000.

Q. Please describe the Bayside SCR Consumables program activities and provide the estimated O&M expenditures for the period of January 2026 through December 2026.

A. The Commission approved the Bayside SCR Consumables program in Order No. PSC-2003-0469-PAA-EI, issued April 4, 2003 in Docket No. 20021255-EI. For the period of January 2026 through December 2026, Tampa Electric projects O&M expenditures associated with consumable

goods, primarily anhydrous ammonia, to be approximately \$339,838.

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Q. Please describe the Clean Water Act Section 316(b) Phase II Study Program activities and provide the estimated O&M expenditures for the period of January 2026 through December 2026.

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The Commission approved Tampa Electric's Clean Water Act Α. Section 316(b) ("Section 316(b)") Phase II Study program in Order No. PSC-2005-0164-PAA-EI, issued February 10, 2005, in Docket No. 20041300-EI. The final rule adopted under Section 316(b), the Cooling Water Intake Structures ("CWIS") Rule, became effective October 14, 2014. The rule established requirements for CWIS at existing facilities. requires that Section 316(b) the location, design, construction, and capacity of CWIS reflect the best minimizing technology available ("BTA") for environmental impacts. Tampa Electric has installed and implemented measures that are necessary for compliance with the impingement mortality reduction part of the rule for Big Bend Unit 1 and Bayside Units 1 & 2. For Big Bend Units 1 & 4, Tampa Electric will complete the biological, financial, and technical study elements as required by the NPDES permit. Tampa Electric expects that the FDEP will issue a new NPDES permit for Big Bend late August 2025. These elements will ultimately be used by the regulating authority to determine the necessity of cooling water system retrofits for Big Bend Unit 1 and Big Bend Unit 4 for impingement and entrainment mortality reduction. There are no anticipated O&M expenditures for this project at this time.

Tampa Electric installed and commissioned traveling screens at Bayside Power Station to reduce impingement mortality to comply with Section 316(b). The Commission approved cost recovery for this project through Order No. PSC-2021-0356-PAA-EI, issued on September 15, 2021, in Docket No. 20210087-EI.

Q. Please describe the Big Bend Unit 1 Section 316(b)

Impingement Mortality project activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

A. The Commission approved Tampa Electric's Big Bend Unit 1 Section 316(b) Impingement Mortality project in Order No. PSC-2018-0594-FOF-EI, issued December 20, 2018 in Docket No. 20180007-EI. In that Order, the Commission found that the program met the requirements for recovery through the

ECRC and granted Tampa Electric cost recovery for prudently incurred costs. For the period of January 2026 through December 2026, Tampa Electric does not anticipate any capital expenditures for the Big Bend Unit 1 Section 316(b) Impingement Mortality Project and the O&M expenditures are estimated to be \$24,000.

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Q. Please describe the Bayside Section 316(b) Compliance project activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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The Bayside Section 316(b) Compliance project was approved Α. by the Commission in Docket No. 20210087-EI, Order No. PSC-2018-0356-PAA-EI, issued September 15, 2021. In that order, the Commission found that the program met the requirements for recovery through the ECRC and granted Tampa Electric cost recovery for prudently incurred costs. For the period January 2026 through December 2026, Tampa Electric does not anticipate any capital expenditures for the Bayside Section 316(b)project. Electric anticipates Tampa the M_3O expenditures for the Bayside Section 316(b) Compliance Project to be \$367,284 in 2026.

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Q. Please describe the Big Bend FGD System Reliability

program activities and provide the estimated capital expenditures for the period of January 2026 through December 2026.

A. Tampa Electric's Big Bend FGD System Reliability program was approved by the Commission in Docket No. 20050958-EI, Order No. PSC-2006-0602-PAA-EI, issued July 10, 2006. The Commission granted approval for prudent costs associated with this project. For the period of January 2026 through December 2026, there are no anticipated capital expenditures for this project.

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Q. Please describe the Arsenic Groundwater Standard program activities and provide the estimated O&M expenditures for the period of January 2026 through December 2026.

A. The Commission approved the Arsenic Groundwater Standard program in Order No. PSC-2006-0138-PAA-EI issued February 23, 2006 in Docket No. 20050683-EI. In that Order, the Commission found that the program met the requirements for recovery through the ECRC and granted Tampa Electric cost recovery for prudently incurred costs. This groundwater standard applies to Tampa Electric's Bayside, Big Bend, and Polk Power Stations. Tampa Electric submitted a detailed plan of study to the FDEP, which

requested a site wide groundwater evaluation after reviewing the study. Tampa Electric submitted the results of this evaluation in 2020 and a proposal for modification of the site groundwater monitoring network to evaluate ongoing compliance. The proposal is under review by FDEP. completes its review, additional Once FDEP expenditures may be incurred if additional monitoring and assessment are required. For the period of January 2026 through December 2026, there are no anticipated O&M expenditures associated with the program.

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Please describe the MATS program activities. Q.

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Α. The Commission approved the MATS program in Order No. PSC-2013-0191-PAA-EI, issued May 6, 2013 in Docket No. 20120302-EI. In that order, the Commission found that the program met the requirements for recovery through the ECRC and granted Tampa Electric approval for cost recovery of prudently incurred costs. Additionally, the Commission granted the subsumption of the previously approved Clean Air Mercury Rule (CAMR) program into the MATS program.

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On February 8, 2008, the Washington D.C. Circuit Court vacated EPA's rule removing power plants from the Clean Air Act list of regulated sources of hazardous air

pollutants under Section 112. At the same time, the court vacated the CAMR. On May 3, 2011, the EPA published a new proposed rule for mercury and other hazardous air pollutants according to the National Emissions Standards for Hazardous Air Pollutants section of the Clean Air Act. On February 16, 2012, the EPA published the final rule for MATS. The rule revised the mercury limits and provided more flexible monitoring and record keeping requirements. Additionally, monitoring of acid gases and particulate matter is required. Compliance with the rule began on April 16, 2015. Tampa Electric is currently meeting or exceeding the standards required by the MATS rule for mercury, particulate matter, and acid gases at Polk Power Station and Big Bend Power Station.

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Q. Please provide MATS program estimated capital and O&M expenditures for the period of January 2026 through December 2026.

A. For the period January 2026 through December 2026, Tampa Electric does not anticipate any capital expenditures under the MATS program. O&M expenditures are projected to total \$1,030 for testing requirements and equipment maintenance.

Q. Please describe the Greenhouse Gas ("GHG") Reduction program activities and provide the estimated O&M expenditures for the period of January 2026 through December 2026.

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A. Tampa Electric's GHG Reduction program, which was approved by the Commission in Docket No. 20090508-EI, Order No. PSC-2010-0157-PAA-EI, issued March 22, 2010, is a result of the EPA's GHG Mandatory Reporting Rule requiring annual reporting of greenhouse gas emissions. Tampa Electric was required to report greenhouse gas emissions for the first time in 2011. Reporting for the EPA's GHG Mandatory Reporting Rule will continue in 2026. For the period January 2026 through December 2026, 0&M expenditures are projected to total \$21,699.

Q. Please describe the Big Bend Gypsum Storage Facility activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

A. The Commission approved the Big Bend Gypsum Storage Facility program in Order No. PSC-2012-0493-PAA-EI, issued September 26, 2012 in Docket No. 20110262-EI. In that Order, the Commission found that the program meets

the requirements for recovery through the ECRC. Tampa Electric does not anticipate any capital expenditures for this program in 2026; however, the company does project \$289,970 in O&M expenditures for this program.

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Q. Please describe the company's EPA CCR Rule compliance activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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Α. On April 17, 2015, the EPA issued a final rule to regulate CCR as non-hazardous waste under Subtitle D of Resource Conservation and Recovery Act ("RCRA"). rule, which became effective on October 19, 2015, covers all operational CCR disposal facilities, as well inactive impoundments which contain CCR and liquids. The Big Bend Unit 4 Economizer Ash Ponds, the East Coalfield Stormwater Pond (converted former slag fines pond), and the North Gypsum Stackout Area are regulated under the rule. The initial phase of the company's CCR compliance was approved by the Commission in Docket No. 20150223-EI, Order No. PSC-2016-0068-PAA-EI, issued February 9, 2016. In that order, the Commission found that the CCR Rule -Phase I program met the requirements for recovery through the ECRC. Incremental ongoing O&M expenditures resulting

from the groundwater monitoring program, berm inspections, and general maintenance of regulated units were approved under the Order. In order to determine the best option to remain in compliance with the new rule, the company evaluated whether to continue operation of the regulated CCR units or close them. Tampa Electric chose a combination of closure and retrofit projects to remain in compliance with the CCR Rule, as discussed later in this section.

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The Commission approved two CCR retrofit projects for Tampa Electric's CCR Rule - Phase I program under Order No. PSC-2016-0068-PAA-EI. These included: 1) removal of remaining residual slaq from the East Coalfield Stormwater Runoff Pond and lining the pond to continue operating it as part of the station's stormwater system; and installing secondary stormwater containment facilities and lining drainage ditches for the North Gypsum Stackout Area to make it fully compliant with the rule's requirements. The Commission approved Phase II of Tampa Electric's CCR Rule program in Order No. 2017-0483-PAA-EI, issued December 22, 2017 in Docket No. 20170168-EI. In that Order, the Commission found that the Phase II program met the requirements for recovery through the ECRC. That Order approved cost recovery of expenses for

the Economizer Ash Pond System Closure project, which included removal and offsite disposal of all CCRs and restoration of the area.

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The Economizer Ash Pond System Closure began in the fourth quarter of 2018 with initial dewatering and removal of CCR for disposal. Due to the large amount of CCR in the Economizer Ash Ponds that needed to be dewatered and shipped to the landfill, this project continued until completion in late 2021. The East Coalfield Stormwater Runoff Pond (slag pond) closure and retrofit project was originally scheduled to be completed in 2019 but was delayed due to unusually high rainfall amounts throughout that year. As a result, this project was initiated in 2020 and completed in early 2021, in accordance with state regulatory requirements. The North Gypsum Stackout Area Drainage Improvements Project was also delayed to allow for finalization of the engineering and construction scope details, but the final phase of the project is currently underway, with completion expected in 2025.

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There are no capital or O&M expenditures anticipated for either CCR Rule Phase I or Phase II for 2026.

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Q. Have there been any changes to the EPA's CCR Compliance

Rule?

A. Yes. In May 2024, EPA promulgated the CCR Rule Legacy Amendment, potentially regulating certain CCR impoundments or other management units not regulated under the original rule. Facility evaluations are required to be performed beginning in 2026 to determine the rule's applicability to Big Bend Station. Tampa Electric expects to incur O&M expenditures of \$45,000 in 2026 for the Facility Evaluation.

Q. Please describe Tampa Electric's ELG Rule activities, both study and compliance related, and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

A. On November 3, 2015, the EPA published the final Steam Electric Power Generating ELG Rule, with an effective date of January 4, 2016. The ELG establishes limits for wastewater discharges from FGD processes, fly ash, and bottom ash transport water, leachate from ponds and landfills containing CCR, gasification processes, and flue gas mercury controls. Big Bend Station's FGD system is affected by this rule. The blow-down stream from the FGD system was previously sent to a physical chemical

treatment system to remove solids, some metals, and ammonia and adjust pH prior to discharge to Tampa Bay via the once through condenser cooling system water. The regulating authority required compliance with ELG no later than December 31, 2023.

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The Commission approved Tampa Electric's Big Bend ELG Study Program ("ELG Study") in Order No. PSC-2016-0248-PAA-EI, issued June 28, 2016 in Docket No. 20160027-EI.

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The ELG Study, which Tampa Electric completed in 2018, identified viable technologies to treat the Tampa Electric Big Bend Station combined effluent streams to bring the streams into compliance with the more stringent requirements under the ELG Rule and resulted in the injection solution. selection of the deep well Commission approved the Big Bend ELG Compliance project in Order No. PSC-2018-0594-FOF-EI, issued December 20, 2018 in Docket No. 20180007-EI. In that order, the Commission found that the program met the requirements for recovery through the ECRC and granted Tampa Electric cost recovery for prudently incurred costs.

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For the period January 2026 through December 2026, Tampa Electric does not anticipate any capital expenditures,

and projects \$670,000 in O&M expenditures.

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Q. Please describe Tampa Electric's National Emission Standards for Hazardous Air Pollutants ("NESHAP") Subpart YYYY Compliance Project activities and provide the estimated capital and O&M expenditures for the period of January 2026 through December 2026.

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The Commission approved Tampa Electric's Clean Air Act, Α. NESHAP Subpart YYYY Compliance Project in Order No. PSC-2022-0286-PAA-EI issued on July 22, 2022, in Docket No. 20220055-EI. The project is required to comply with the Environmental Protection Agency's ("EPA") formaldehyde emission standard set for stationary, gas-fired combustion turbines. For the period January 2026 through December 2026, Tampa Electric does not anticipate any capital expenditures. The project's O&M expenditures are expected to total \$7,500 in 2026.

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Q. Does Tampa Electric have any annual environmental costs required by the Florida Administrative Code?

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A. Yes. Tampa Electric's Big Bend, Polk, and Bayside Power Stations are subject to Chapter 62-4.052, Florida Administrative Code, which implements the annual regulatory

program surveillance fees for wastewater permits. The annual estimated O&M expenditures for NPDES Annual Surveillance Fees for the three generating plants for the period January 2026 through December 2026 total \$35,535.

Q. Are there any new unapproved projects that Tampa Electric will be requesting to be included in its 2026 ECRC factors?

A. Yes. As described above, the O&M expenditures for the CCR Rule Legacy Amendment Study for Big Bend Power Station are expected to be \$45,000 in 2026.

Q. Please summarize your testimony.

A. I described ongoing environmental compliance requirements of the Clean Air Act, Title V Operating permit (0570039-155-AV) for the Big Bend Station. I described the progress Tampa Electric has made to achieve the more stringent environmental standards. Big Bend 1-3 retired assets, the balances of which were transferred to the company's CETM in 2022 and 2023 upon retirement, have been excluded from this clause in accordance with the company's 2021 Settlement Agreement. I identified estimated costs, by project, which the company expects to incur in 2026.

Additionally, my testimony identified additional projects that are required for Tampa Electric to meet environmental requirements, and I provided the associated activities and projected expenditures. Does this conclude your direct testimony? Q. Yes, it does. Α.