



May 26, 2026

VIA ELECTRONIC FILING

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

Re: Docket No. 20260053-EI
Review of the 2024-2025 Outage of Tampa Electric Company's Bayside
Steam Turbine Unit 2

Dear Mr. Teitzman:

Attached for filing on behalf of Tampa Electric Company are Tampa Electric Company's answers to Staff's First Data Request (Nos. 1-6) served via electronic mail on April 27, 2026.

Thank you for your assistance in connection with this matter.

Sincerely,

A handwritten signature in blue ink that reads "Malcolm N. Means".

Malcolm N. Means

MNM/bml
Attachment

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the following answers, filed on behalf of Tampa Electric Company, have been furnished by electronic mail on this 26th day of May, 2026 to the following:

Major Thompson
Suzanne Brownless
Office of the General Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850
mthompson@psc.state.fl.us
sbrownless@psc.state.fl.us
discovery-gcl@psc.state.fl.us

Walter Trierweiler
Charles Rehwinkel
Austin Watrous
Office of Public Counsel
111 West Madison Street, Room 812
Tallahassee, FL 32399-1400
trierweiler.walt@leg.state.fl.us
rehwinkel.charles@leg.state.fl.us
watrous.austin@leg.state.fl.us



ATTORNEY

**TAMPA ELECTRIC COMPANY
DOCKET NO. 20260053-EI
STAFF'S FIRST DATA REQUEST
REQUEST NO. 1
BATES PAGE(S): 173069
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1. Provide a detailed explanation of the root cause of the Bayside ST2 outage and how it was determined.

ANSWER:

Please see GE Vernova's¹ root cause analysis [BS 43515-43543] for a detailed analysis of the causes of the Bayside ST2 outage.

Please see also Tampa Electric's answer to the Office of Public Counsel's Third Set of Interrogatories, Interrogatory No. 6, for a detailed explanation of the Spring 2024 planned steam turbine retrofit outage for Bayside Unit 2, the causes of the October 2024 forced outage, Tampa Electric's investigation of those causes, and the company's response to the forced outage.

¹ Tampa Electric originally contracted with General Electric to complete power plant projects, including the Bayside ST2 outage. General Electric spun off its portfolio of energy businesses to GE Vernova, Inc. on April 2, 2024. GE Vernova assumed all of GE's responsibilities under its contracts with Tampa Electric for the Bayside ST2 outage. This Data Request Answer refers only to GEV for clarity and simplicity.

**TAMPA ELECTRIC COMPANY
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REQUEST NO. 2
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2. Provide a detailed explanation of, how the Bayside ST2 outage was resolved and when the unit returned to service.

ANSWER:

Please see GE Vernova's² root cause analysis [BS 43515-43543], Tampa Electric's answer to the Office of Public Counsel's Third Set of Interrogatories, Interrogatory No. 6, and the company's answer to Data Request No. 1 in this set for a description of the investigation into the causes of the outage and the conclusions of that investigation.

After GEV completed its investigation of the outage and identified inadequate clearances as the primary root cause, they accepted full responsibility for the outage. GEV released replacement parts designs for manufacturing on an expedited basis in January of 2025, after the investigation eliminated potential blade design defects as the cause of the outage.

GEV delivered the replacement parts to Bayside in May and June of 2025 and oversaw the work to rebuild the unit between June and August of 2025. The unit returned to service on August 15, 2025, and has run without major issues since that time.

² Tampa Electric originally contracted with General Electric to complete power plant projects, including the Bayside ST2 outage. General Electric spun off its portfolio of energy businesses to GE Vernova, Inc. on April 2, 2024. GE Vernova assumed all of GE's responsibilities under its contracts with Tampa Electric for the Bayside ST2 outage. This Data Request Answer refers only to GEV for clarity and simplicity.

**TAMPA ELECTRIC COMPANY
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REQUEST NO. 3
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3. Detail what steps the Company has taken to prevent the root cause of the Bayside ST2 outage from reoccurring.

ANSWER:

GE Vernova ("GEV")³ identified inadequate clearances as the primary root cause of the outage. Tampa Electric negotiated with GEV to perform a secondary physical check of clearance and alignment specifications, known as a "lead wire check," on future major turbine retrofits. Performance of a lead wire check goes above and beyond industry standard practice. GEV performed a lead wire check on the recently completed Bayside Steam Turbine 1 retrofit project.

Please see the answers to Data Request Nos. 1 and 2 in this set for additional details.

³ Tampa Electric originally contracted with General Electric to complete power plant projects, including the Bayside ST2 outage. General Electric spun off its portfolio of energy businesses to GE Vernova, Inc. on April 2, 2024. GE Vernova assumed all of GE's responsibilities under its contracts with Tampa Electric for the Bayside ST2 outage. This Data Request Answer refers only to GEV for clarity and simplicity.

- 4.** Provide a detailed timeline of the Bayside ST2 outage event.

ANSWER:

Please see the timeline provided below:

- September 1967 – Tampa Electric placed Bayside Station Unit No. 2 Steam Turbine-Generator and its auxiliaries into service as Gannon Station Unit No. 6.
- June 1990 – Tampa Electric installed a GE generator on Unit 2.
- November 1992 – Tampa Electric completed a retrofit on the low-pressure section of the turbine.
- May 1996 – Tampa Electric completed another retrofit on the low-pressure section of the turbine.
- 2004 – Tampa Electric repowered the unit from a coal-fired boiler steam unit to a 4x1 combined cycle unit.
- June 2021 – Tampa Electric began planning major outages on Bayside ST1 and ST2.
- August 2021 – Tampa Electric completed a steam turbine health assessment.
- December 2021 – Tampa Electric requested bids for major outages on ST1 and ST2.
- July 2022
 - Tampa Electric completed an evaluation and decided to perform a retrofit of the high-pressure/intermediate-pressure (“HP-IP”) section of ST2.
 - Tampa Electric awarded a contract to Power Service Group (“PSG”) to complete work on ST1 and ST2.

**TAMPA ELECTRIC COMPANY
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- October 2022 – Tampa Electric awarded a contract to GE Vernova⁴ to complete work on the HP-IP turbine retrofit for ST2.
- July 2023 – Tampa Electric amended its contract with PSG to encompass the ST2 retrofit project.
- February 2024 – Tampa Electric began the planned outage on ST2.
- Late May – Early June 2024
 - Tampa Electric completed the ST2 retrofit and began commissioning the unit under the oversight of GEV and its subcontractor Bently Nevada.
 - The unit experienced rubs and high vibrations during hot commissioning, but GEV and Bently Nevada advised that the unit was ready for service.
 - Tampa Electric and GEV later determined that the rubs were the result of inadequate clearances.
 - Tampa Electric and GEV also later determined that the first two stages of the turbine likely lost pretwist because of these rubs.
- June 6, 2024 – Bayside Unit 2 returned to service.
- June 7, 2024 – Tampa Electric and GEV later determined that the governor valves on ST2 malfunctioned at this time, resulting in “partial arc admission.”
- June 8-9, 2024
 - The unit experienced elevated vibrations, but they did not exceed trip levels. The vibrations ultimately return to normal.
 - Tampa Electric and GEV later determined that the first two stages of the turbine likely liberated at this time due to the loss of pretwist during commissioning.
- June 21, 2024 – ST2 shut down due to a steam leak.

⁴ Tampa Electric originally contracted with General Electric to complete power plant projects, including the Bayside ST2 outage. General Electric spun off its portfolio of energy businesses to GE Vernova, Inc. on April 2, 2024. GE Vernova assumed all of GE's responsibilities under its contracts with Tampa Electric for the Bayside ST2 outage. This Data Request Answer refers only to GEV for clarity and simplicity.

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- June 24, 2024 – ST2 returned to service without indication of a major issue.
- June 24 – September 29, 2024
 - ST2 operated without issue.
 - Tampa Electric and GEV noted a slight loss of unit efficiency compared to expected levels, but there was no indication of a major issue and the parties agreed to address the loss of efficiency during the next planned outage.
- September 29, 2024 – Vibration levels on the unit began to increase.
- October 1, 2024
 - ST2 tripped offline due to high vibration levels.
 - Tampa Electric detected a low speed imbalance on the unit, which indicated mass loss.
 - A Bently Nevada vibration expert onsite at the time reviewed operational data and recommended that the company should not restart the unit.
- October 2, 2024 – Tampa Electric reviewed the data and decided to reopen the HP-IP section of the turbine.
- October 10-15, 2024-Tampa Electric and GEV disassembled the HP-IP section of the turbine and discovered damage.
- October 18, 2024 –TGA's engineer arrived onsite to begin work on an independent RCA for Tampa Electric.
- October 2024 – Tampa Electric shipped the HP-IP rotor and inner casing to GEV for analysis.
- October 23, 2024 – GEV provided an initial RCA framework and requested data from Tampa Electric.
- January-February 2025 – GEV eliminated design defects as a potential cause of the outage and began manufacturing replacement parts on an expedited basis.
- April 16, 2025 – GEV completed its RCA.
- May-June 2025 – New components arrived at Bayside Station.

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- June 13, 2025 – TGA completed its RCA.
- August 10-14, 2025 – Tampa Electric and GEV completed reconstruction of the unit and began commissioning.
- August 15, 2025 – Unit 2 returned to service.

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5. Detail the calculation of replacement power costs associated with the Bayside ST2 outage. This response should include a breakdown of the total cost and the specific methodology used to calculate those costs.

ANSWER:

Tampa Electric's work on the replacement power calculation is ongoing. The company will supplement this answer with a replacement power calculation when it is complete.

**TAMPA ELECTRIC COMPANY
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REQUEST NO. 6
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6. Detail the total cost associated with the blade replacement for the Bayside ST2 outage.

ANSWER:

GE Vernova⁵ accepted responsibility for the forced outage and replaced the damaged parts at its own expense. Tampa Electric does not know the total cost incurred by GEV.

⁵ Tampa Electric originally contracted with General Electric to complete power plant projects, including the Bayside ST2 outage. General Electric spun off its portfolio of energy businesses to GE Vernova, Inc. on April 2, 2024. GE Vernova assumed all of GE's responsibilities under its contracts with Tampa Electric for the Bayside ST2 outage. This Data Request Answer refers only to GEV for clarity and simplicity.