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September 1, 2022

VIA ELECTRONIC MAIL

Carmen Diaz, Acting Secretary
New Jersey Board of Public Utilities
44 South Clinton Street
3rd Floor Suite 314
Trenton, New Jersey 08625

Re: In the Matter of the Verified Petition of Jersey Central Power & Light Company for Review and Approval of Increases in and Other Adjustments to Its Rates and Charges For Electric Service, and For Approval of Other Proposed Tariff Revisions in Connection Therewith (“2020 Base Rate Filing”) BPU Docket No. ER20020146 Vegetation Management Circuit Performance Report- Compliance Filing

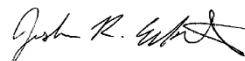
Dear Acting Secretary Diaz:

On behalf of Jersey Central Power & Light Company (“JCP&L” or “Company”), enclosed for filing with the New Jersey Board of Public Utilities (“Board”), is JCP&L’s Vegetation Management Circuit Performance Report (the “VMCP Report” or “Report”). The VMCP Report is being filed in compliance with the Board’s Order, dated October 28, 2020, in the above-referenced docket, adopting a Stipulation of Settlement (“the “Stipulation”). Among other things, as recited by the Board’s Order (at pgs. 9-10), ¶¶38-40 of the Stipulation requires the Company to undertake a VMCP and to produce and file a semi-annual report starting March 1, 2021. As required, copies of the VMCP are simultaneously provided to Board Staff and the Division of Rate Counsel (“Rate Counsel”) together with a copy of this correspondence.

This VMCP is being sent electronically-only consistent with the Board Order dated March 19, 2020 (Docket No. EO20030254) directing that, until further notice, all submissions to the Board or to Rate Counsel, of any kind, be submitted electronically. Accordingly, please note that no paper copies will follow and we would appreciate if the Board Secretary’s office would please acknowledge receipt of this letter and the VMCP.

If you have any questions, please feel free to contact me.

Very truly yours,



Joshua R. Eckert

Enclosures

cc: Service List

**Jersey Central
Power & Light**

A FirstEnergy Company

**Vegetation Management Circuit
Performance Program Report**

September 1, 2022

Vegetation Management Circuit Performance Program Report

This Jersey Central Power & Light Company (“**JCP&L**” or “**Company**”) Vegetation Management Circuit Performance Report (the “**VMCP Report**” or “**Report**”) pertains to the Company’s VMCP program. The VMCP Report is submitted to the New Jersey Board of Public Utilities (the “**Board**”) in accordance with the Stipulation of Settlement approved by the Board in its Order dated October 28, 2020 in BPU Docket No. ER20020146 (the “**Stipulation**”).

This Report, which is due September 1, 2022, is the fourth report under the Stipulation and provides the VMCP progress through July 31, 2022.

The VMCP Report will be filed on March 1 and September 1 of each year. The VMCP Report filed on each March 1 will provide the VMCP program circuit performance for the previous year. The Report filed on each September 1 will address the VMCP programs progress during the then current year as well as updates, as applicable, about the prior year activity or follow-up, as appropriate, not covered by the previous VMCP Report.

Vegetation Management Circuit Performance Program Report

I. VMCP Program Description (Stipulation ¶40)

40. VMCP Program Description Report: *Details of the VMCP Program will be described in a written report provided to the Board and Rate Counsel. The VMCP Program shall include, and the report shall describe, (i) the foregoing assessment, planning and enhanced on-cycle work elements as set forth in the Stipulation, and (ii) the VMCP Program reporting requirements.*

- a. VMCP Program reporting on a semi-annual basis shall include, at a minimum, data as set forth in Attachment 6 of the Stipulation; and*
- b. VMCP Program reporting shall include semi-annual meetings with Rate Counsel and Staff scheduled by the Company to discuss the reports*

(i) **See** Section III hereof.

(ii) JCP&L performs vegetation management to help ensure the continued safe and reliable operation of the distribution system. The Company's Distribution vegetation management specification is designed to support line operations by improving reliability, and maintaining access to perform maintenance, make repairs, or restore electrical service in a safe and timely manner. JCP&L's currently approved vegetation specification calls for: (1) vegetation to be pruned to achieve four years of clearance, (2) removal of selected incompatible trees within the clearing zone corridor, (3) removal of certain defective limbs that are overhanging primary conductors, (4) controlling selected incompatible brush mechanically and/or using herbicide, and (5) if authorized by property owners to do so, removal of off-corridor priority trees that are dead, dying, diseased, leaning or significantly encroaching the corridor.

Portions of a circuit that experience high customer interruption minutes due to vegetation-caused outages may be targeted to, not only, receive the specification described above, but also enhanced vegetation removal techniques, which includes removal of certain healthy limbs, based on tree species and condition, which overhang primary conductors.

Methods used to manage and control vegetation include manual control methods using hand-operated tools and mechanically control equipment such as mounted saws, mowers or other devices. Removing incompatible vegetation may also include various herbicide application techniques such as, high volume foliar application, low volume foliar application, basal herbicide applications, stump applications, frill application, aerial application, bare soil treatment application and cut stubble applications. All herbicides are applied in accordance with all state, local and federal laws governing the use of herbicides, in accordance with the manufacturer's pesticide label.

Vegetation Management Circuit Performance Program Report

JCP&L's professional vegetation management staff performs inspections and approves all work conducted by vegetation management contractors. The Forestry personnel maintain an understanding of current and emerging techniques by attending industry trade conferences and maintaining memberships in industry trade and professional organizations, such as Utility Arborist Association and the International Society of Arboriculture. The goal of the vegetation management department is to manage distribution corridors in a manner that provides safe and reliable electricity while simultaneously working to maintain stable and compatible vegetation along JCP&L's distribution rights-of-ways.

- a. The data required by the Stipulation, and in the Tree Reliability Reporting Template set forth in Attachment 6 of the Stipulation, are provided in the appendices to, and discussed within, this VMCP Report, which includes the appendices.
- b. JCP&L will schedule a semi-annual meeting with Staff and Rate Counsel.

Vegetation Management Circuit Performance Program Report

II. Tree-Related SAIDI Circuit Reliability Tracking and Reporting (Stipulation ¶ 38)

38. Tree-Related SAIDI Circuit Reliability Tracking and Reporting: *The Company will measure the tree-related reliability performance of its circuits using System Average Interruption Duration Index (“SAIDI”) by separately tracking tree-related outages on its circuits during blue-sky, minor weather days, and major events.*

- a. *The Company will provide the tree-related SAIDI performance reporting results in a report to the Board on a semi-annual basis starting March 1, 2021 for each of the Company’s 1,187 circuits. Initially for the 2020 reporting year, the report will compare (i) the tree-related SAIDI performance results for its circuits to (ii) the Company’s four (4)-year (2016-2019) average circuit tree-related SAIDI. In subsequent reporting years, the Company will report on the tree-related SAIDI performance results for its circuits on a four (4)-year rolling average.*
 - b. *The 221 circuits that have received Zone 2 overhang removal as part of the JCP&L RP program will be tracked separately to determine the tree-related SAIDI performance benefits of the Zone 2 overhang removal for those circuits and the results will be included in the semi-annual report. The tree-related SAIDI performance of the 221 JCP&L RP program circuits will be monitored for one (1) trimming cycle (i.e., four [4] years) and will be reported in the Annual System Performance Report. Subsequently, these 221 circuits will be added to the Company’s overall circuit population for purposes of tracking, reporting and attention, as required and necessary, under the VMCP Program.*
- a. The tree-related SAIDI performance for the Company’s 1,187 circuits January 1, 2022 through July 31, 2022, is provided in Appendix A hereto (as required by Attachment 6 of the Stipulation).
 - b. A total of 221 circuits received Zone 2 overhang removal as part of the JCP&L Reliability Plus (“**RP**”) program. The tree-related SAIDI for the 221 circuits during blue-sky, minor weather days, and major events, for the period of January 1, 2022 through July 31, 2022, is provided in Appendix B.

Vegetation Management Circuit Performance Program Report

III. VMCP Program Enhanced On-Cycle Work, Circuit Review, Assessment and Planning, and Off-ROW Mitigation (Stipulation ¶39)

39. VMCP Program Enhanced On-Cycle Work: *Under the Company's VMCP Program, for circuits to be trimmed in a given year (i.e., on cycle), if an on-cycle circuit's tree-related SAIDI reliability performance is in the bottom 12% for any two (2) of the last four (4) consecutive years when compared to the four (4)-year rolling average tree-related SAIDI performance (starting initially in 2021 with the 2016-2019 rolling average:*

- a. **VMCP Program Circuit Review, Assessment and Planning:** The circuit will be reviewed to assess whether overhanging limbs, on-corridor trees, or off-corridor trees are the driver(s) for the circuit's tree-related SAIDI performance. Tree-related SAIDI performance of Zone 1 and Zone 2 will be analyzed to determine trees downstream of protective devices that have operated that may be trimmed or removed to address tree-related outages. This analysis will be used to determine whether overhanging limbs, on-corridor trees or off-corridor trees are the driver of the circuit's tree-related SAIDI performance. The circuit will also be reviewed to determine a work plan for enhanced on-cycle work to improve the circuit's tree-related SAIDI performance.*
- b. **Enhanced On-Cycle Work:** Enhanced on-cycle work, as described in the Stipulation, will be performed on the selected circuit and the circuit's tree-related SAIDI performance will be monitored on a quarterly basis until the circuit's tree-related SAIDI performance has improved for two (2) consecutive quarters. JCP&L will endeavor to improve the circuit's tree-related SAIDI performance through enhanced on-cycle trimming and off-right-of-way tree removal and shall undertake field analysis to determine to what extent ash tree failure is a driver of tree-related SAIDI performance and to what extent ash tree removal will be incorporated as part of the circuit's tree-related SAIDI improvement plan.*
- c. **Off-Right-of-Way Tree Mitigation:** The VMCP Program will also include off-right-of-way tree mitigation as part of the enhanced on-cycle work, starting within six (6) months of the approval of the Stipulation, targeting off right-of-way danger trees. Company representatives will work with property owners in an effort to obtain permission to perform vegetation management, including tree pruning, removal, etc.*

The Company's review of the tree-related SAIDI reliability performance of circuits trimmed in 2021¹ indicates the following:

¹ See JCP&L's 2021 Annual System Performance Report ("ASPR"), which was submitted to the Board on May 27, 2022 pursuant to N.J.A.C. 14:5-8.8, for the circuits that were scheduled to be trimmed in 2022 (beginning on page 66 of the ASPR, Sections 14:5-8.8(c)9., 14:5-9.9(c)(2.), and 14:5-9.9(d)).

Vegetation Management Circuit Performance Program Report

Seventeen (17) circuits have tree-related SAIDI reliability performance in the bottom 12% for two of the last four consecutive years (2018 – 2021) compared to the four-year rolling average (2018 – 2021) tree-related SAIDI performance. A list of those 17 circuits is provided in Appendix C.

The primary cause of tree-related outages on these 17 circuits was due to off-Right-Of-Way (“ROW”) trees falling into electric facilities.

These 17 circuits are being reviewed by JCP&L forestry personnel. The review will include an assessment of tree-related outages occurring in relation to protective devices, tree species, part of the tree that failed, and the location of the tree within the corridor. This information will be used to determine and/or develop the prescription for vegetation management work for those circuits.

Off ROW tree assessments will also be conducted on these 17 circuits. These assessments will identify Hazard and Danger² off-ROW trees for removal.

JCP&L forestry staff will identify off-ROW Danger and Hazard trees, focusing on a distance of 15-24 feet from the closest conductor. This area has been identified as the highest outage causing location along the ROW. Contracted forestry professionals and work planners have also been provided guidance and will assign prescriptions to reduce on-ROW vegetation and remove identified Danger and Hazard trees³.

The Company started the review, assessment, and planning process for these 17 circuits in January 2022, which is expected to be completed, including all maintenance activities, by December 31, 2022. Additional details on the status of the review, assessment, and planning, as well as with respect to the enhanced on-cycle work and off-ROW tree mitigation as of July 31, 2022, are provided in Appendix C.

² See Attachment 6 in Appendix A for the definitions of Danger and Hazard trees.

³ JCP&L’s options under the law are strictly limited when it comes to all forms of off-right-of-way (“ROW”) tree management. However, JCP&L is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. JCP&L is very active in pursuing this option, where available.

Vegetation Management Circuit Performance Program Report

Appendix A

Attachment 6 Tree Reliability Reporting Template JCP&L

Blue-Sky

| Reliability Performance | Baseline (2016-2019) | Year 1 (2020) | Year 2 (2021) | Year 3 (As of July 31, 2022) | Year 4 (2023) |
|-------------------------|-------------------------|------------------|------------------|------------------------------------|------------------|
| Tree SAIFI | 0.341 | 0.161 | 0.140 | 0.076 | |
| System SAIFI | 1.44 | 0.915 | 0.832 | 0.538 | |
| Tree as % Contribution | 24% | 18% | 17% | 14% | |

Annual Outage Frequency and Duration

| Metric | Year 1 (2020) | Year 2 (2021) | Year 3 (As of July 31, 2022) | Year 4 (2023) | % change |
|--------------------------------------|------------------|------------------|------------------------------------|------------------|----------|
| Customers Impacted (System) (#) | 1,028,901 | 940,915 | 609,620 | | -35.2% |
| Customers Impacted (Tree) | 180,921 | 158,845 | 86,326 | | -45.7% |
| Tree as % Contribution to SAIFI | 18% | 17% | 14% | | -17.6% |
| | | | | | |
| Customers Impacted (System) (min) | 135,310,911 | 127,627,995 | 85,102,426 | | -33.3% |
| Customers Impacted (Tree) | 34,876,302 | 34,887,565 | 18,804,846 | | -46.1% |
| Tree as % Contribution to SAIDI | 26% | 27% | 22% | | -18.5% |

Including Major Events

| Metric | Year 1 (2020) | Year 2 (2021) | Year 3 (As of July 31,2022) | Year 4 (2023) | % change |
|--------------------------------------|------------------|------------------|-----------------------------------|------------------|----------|
| Customers Impacted (System) (#) | 2,338,208 | 1,461,324 | 712,763 | | -51.2% |
| Customers Impacted (Tree) | 496,068 | 311,046 | 113,153 | | -63.6% |
| Tree as % Contribution to SAIFI | 21% | 21% | 16% | | -23.8% |
| | | | | | |
| Customers Impacted (System) (min) | 2,323,363,988 | 322,673,201 | 110,111,198 | | -65.9% |
| Customers Impacted (Tree) | 648,668,213 | 122,789,624 | 30,646,338 | | -75.0% |
| Tree as % Contribution to SAIDI | 28% | 38% | 28% | | -26.3% |

Vegetation Management Circuit Performance Program Report

Tree Trimming Metrics

| Metric | Year 1 (2020) | Year 2 (2021) | Year 3 (As of July 31, 2022) | Year 4 (2023) | % change |
|---|------------------|------------------|------------------------------------|------------------|----------|
| Number of Hazard trees ¹ identified for removal | 24,718 | 15,899 | 7,913 | | -50.2% |
| Number of Hazard trees removed | 24,710 | 15,892 | 7,912 | | -50.2% |
| Number of hazard tree removals denied by homeowners or other parties | 8 | 7 | 1 | | -85.7% |
| | | | | | |
| Number of Danger trees ² identified for removal | NA ³ | 5,804 | 1,891 | | -67.4% |
| Number of Danger trees removed | NA ³ | 2,526 | 1,633 | | -35.4% |
| Number of danger tree removals denied by homeowners or other parties | NA ³ | 19 | 5 | | -73.7% |

¹ “Hazard tree” is a structurally unsound tree on or off the right of way that could strike electric supply lines when it fails. Structural unsoundness distinguishes a hazard tree from a danger tree, such that while all hazard trees are danger trees, not all danger trees are hazard trees (NJAC 14:5-1.2).

² “Danger trees” are defined as any tree on or off the right-of-way that could contact electric supply lines if it were to fall (NJAC 14:5-1.2)

³The requirement to track and report Hazard trees for VMCP circuits identified for enhanced on-cycle work per Stipulation ¶39, is a new requirement under the Stipulation. JCP&L has not previously identified VMCP circuits prior to 2020 and, therefore, the total number of Hazard trees identified for removal, removed, and denied for removal, for all 1,187 JCP&L circuits were provided for 2020.

⁴ The requirement to track and report Danger trees is a new requirement under the Stipulation. JCP&L has not previously tracked Danger trees that are not also Hazard trees and, therefore, the total number of Danger trees that would have been identified for removal, removed, or denied for removal (by a property owner) in 2020 had this requirement been in place, is not known. Commencing January 2021, JCP&L began tracking this information.

⁵ Beginning in 2021, the number of Hazard and Danger trees identified for removal, removed, and denied for removal, are provided for only those VMCP circuits identified for enhanced on-cycle work, included in Appendix C of this Report.

Vegetation Management Circuit Performance Program Report

Appendix B**Tree-Related SAIDI Performance For The 221 Circuits That Received Zone 2 Overhang Removal Under The JCP&L Reliability Plus Program from January 1, 2022 through July 31, 2022**

| 2022 (through July 31, 2022) | | | | |
|-------------------------------------|----------------|-----------------------------------|---|---------------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky¹ | SAIDI Minor Weather Days² | SAIDI Major Events³ |
| Academy 37954 | 37954 | 0 | 0 | 0 |
| Air Reduction 37860 | 37860 | 0 | 0 | 0 |
| Air Reduction 37861 | 37861 | 0 | 0 | 0 |
| Alderney 37731 | 37731 | 0 | 0 | 0 |
| Alpha 27691 | 27691 | 72 | 3 | 35 |
| Andover 14704 | 14704 | 0 | 0 | 0 |
| Andover 14706 | 14706 | 0 | 0 | 0 |
| Andover 17702 | 17702 | 0 | 0 | 0 |
| Baptistown 27720 | 27720 | 10 | 517 | 7 |
| Bath Ave 53001 | 53001 | 0 | 0 | 0 |
| Bernardsville 17531 | 17531 | 0 | 0 | 0 |
| Blairstown 17655 | 17655 | 65 | 2 | 24 |
| Blairstown 17656 | 17656 | 50 | 10 | 13 |
| Boonton 33771 | 33771 | 0 | 0 | 0 |
| Bradevelt 47173 | 47173 | 0 | 0 | 0 |
| Branchville 17630 | 17630 | 0 | 0 | 0 |
| Branchville 17632 | 17632 | 35 | 57 | 449 |
| Briant Park 33776 | 33776 | 3 | 0 | 0 |
| Briant Park 33780 | 33780 | 0 | 0 | 0 |
| Broadway 27635 | 27635 | 12 | 82 | 6 |
| Cedar Knolls 37789 | 37789 | 0 | 0 | 0 |
| Change Bridge 37791 | 37791 | 0 | 0 | 0 |
| Chapin Road 37929 | 37929 | 0 | 0 | 0 |
| Chapin Road 37930 | 37930 | 0 | 0 | 0 |
| Chester 17540 | 17540 | 90 | 42 | 22 |
| Chester 17541 | 17541 | 16 | 28 | 9 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Chester 17542 | 17542 | 0 | 0 | 0 |
| Chester 17544 | 17544 | 290 | 3 | 10 |
| Clark St 43099 | 43099 | 0 | 0 | 0 |
| Convent 37797 | 37797 | 0 | 0 | 0 |
| Convent 37800 | 37800 | 0 | 0 | 0 |
| Convent 37801 | 37801 | 0 | 0 | 0 |
| Convent 37802 | 37802 | 0 | 0 | 0 |
| Cozy Lake 17735 | 17735 | 1 | 1 | 1 |
| Cozy Lake 17737 | 17737 | 10 | 0 | 8 |
| Cranbury 47182 | 47182 | 0 | 0 | 0 |
| Cranbury 47196 | 47196 | 0 | 0 | 0 |
| Crawfords Corner 47408 | 47408 | 0 | 0 | 0 |
| Csc 37423 | 37423 | 0 | 0 | 0 |
| Dead River 27501 | 27501 | 15 | 0 | 0 |
| Dead River 27503 | 27503 | 0 | 0 | 0 |
| Dead River 27504 | 27504 | 0 | 49 | 4 |
| Depot 57095 | 57095 | 0 | 0 | 0 |
| Drakestown 17100 | 17100 | 0 | 0 | 0 |
| Drakestown 17101 | 17101 | 3 | 0 | 34 |
| East Dover 14510 | 14510 | 0 | 0 | 0 |
| East Flemington 27542 | 27542 | 0 | 0 | 0 |
| Fadem Road 37900 | 37900 | 0 | 0 | 0 |
| Fairhaven 54207 | 54207 | 0 | 0 | 0 |
| Fairhaven 57205 | 57205 | 0 | 0 | 0 |
| Flanders 17012 | 17012 | 0 | 0 | 0 |
| Flanders 17013 | 17013 | 0 | 0 | 0 |
| Flanders 17014 | 17014 | 0 | 0 | 0 |
| Fleetwood 14001 | 14001 | 0 | 0 | 0 |
| Fleetwood 14002 | 14002 | 0 | 0 | 0 |
| Florham Park 37740 | 37740 | 0 | 0 | 0 |
| Florham Park 37741 | 37741 | 0 | 0 | 0 |
| Florham Park 37743 | 37743 | 0 | 0 | 0 |
| Florham Park 37803 | 37803 | 0 | 0 | 0 |
| Fox Hill 37810 | 37810 | 0 | 0 | 0 |
| Fox Hill 37811 | 37811 | 34 | 0 | 0 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Franklin 14539 | 14539 | 0 | 0 | 0 |
| Freneau 47333 | 47333 | 1 | 8 | 3 |
| Furnace Brook 27534 | 27534 | 120 | 27 | 13 |
| Furnace Brook 27535 | 27535 | 21 | 59 | 4 |
| Gilboa 24587 | 24587 | 24 | 183 | 7 |
| Gillette 37940 | 37940 | 30 | 2 | 2 |
| Gillette 37941 | 37941 | 0 | 7 | 9 |
| Glen Gardner 27592 | 27592 | 2 | 6 | 282 |
| Glen Gardner 27714 | 27714 | 41 | 0 | 155 |
| Gordons Corner 47384 | 47384 | 0 | 0 | 0 |
| Gordons Corner 47385 | 47385 | 0 | 0 | 0 |
| Grandin 27706 | 27706 | 8 | 26 | 0 |
| Great Adventure 67296 | 67296 | 19 | 40 | 0 |
| Great Adventure 67297 | 67297 | 0 | 0 | 0 |
| Green Village 37813 | 37813 | 0 | 0 | 0 |
| Greystone 37758 | 37758 | 0 | 0 | 0 |
| Hackettstown 14560 | 14560 | 0 | 0 | 0 |
| Hamburg 17557 | 17557 | 0 | 0 | 0 |
| Haskell 37823 | 37823 | 0 | 0 | 0 |
| Hawks 27683 | 27683 | 16 | 2 | 561 |
| Hayti 47390 | 47390 | 0 | 0 | 0 |
| Herbertsville 57382 | 57382 | 0 | 0 | 0 |
| Herbertsville 57383 | 57383 | 0 | 0 | 0 |
| Holiday Lakes 17302 | 17302 | 52 | 63 | 81 |
| Hooper Ave 67260 | 67260 | 0 | 0 | 0 |
| Hooper Ave 67262 | 67262 | 0 | 0 | 0 |
| Hopatcong 14635 | 14635 | 3 | 15 | 25 |
| Hopatcong 14636 | 14636 | 0 | 0 | 0 |
| Hopatcong 14637 | 14637 | 0 | 0 | 0 |
| Hornerstown 67292 | 67292 | 0 | 0 | 0 |
| Howell 47085 | 47085 | 0 | 0 | 0 |
| Hurdstown 14614 | 14614 | 0 | 0 | 0 |
| Hurdstown 17785 | 17785 | 0 | 0 | 0 |
| Hurdstown 17786 | 17786 | 0 | 0 | 0 |
| Hyson 67310 | 67310 | 0 | 0 | 0 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Iiff 17203 | 17203 | 10 | 37 | 0 |
| Jacksonville 33827 | 33827 | 0 | 0 | 0 |
| Jerseyville 47483 | 47483 | 0 | 0 | 0 |
| Kenvil 17626 | 17626 | 1 | 77 | 0 |
| King George 37925 | 37925 | 0 | 0 | 0 |
| Lakehurst 64324 | 64324 | 0 | 0 | 0 |
| Landing 17740 | 17740 | 4 | 3 | 40 |
| Landing 17743 | 17743 | 0 | 0 | 0 |
| Lanes Mill 57315 | 57315 | 0 | 0 | 0 |
| Larrabee 67349 | 67349 | 0 | 0 | 0 |
| Laurelton 57041 | 57041 | 0 | 0 | 0 |
| Laurelton 57042 | 57042 | 0 | 0 | 0 |
| Laurelton 57044 | 57044 | 0 | 0 | 0 |
| Lebanon 27411 | 27411 | 0 | 0 | 0 |
| Lincroft 57170 | 57170 | 0 | 0 | 0 |
| Little Silver 57456 | 57456 | 0 | 0 | 0 |
| Lyons 17641 | 17641 | 34 | 12 | 0 |
| Lyons 17642 | 17642 | 0 | 0 | 0 |
| Manalapan 47350 | 47350 | 0 | 0 | 0 |
| Manitou 67502 | 67502 | 0 | 0 | 0 |
| Manitou 69507 | 69507 | 0 | 0 | 0 |
| Marble Hill 24702 | 24702 | 0 | 0 | 0 |
| Mc Guire 67047 | 67047 | 1 | 0 | 0 |
| Mendham 17648 | 17648 | 0 | 0 | 0 |
| Mid Monmouth 57365 | 57365 | 0 | 0 | 0 |
| Millburn 33832 | 33832 | 0 | 0 | 0 |
| Millburn 33834 | 33834 | 0 | 0 | 0 |
| Millburn 33835 | 33835 | 0 | 0 | 0 |
| Millburn 33836 | 33836 | 0 | 0 | 0 |
| Millburn 33838 | 33838 | 0 | 0 | 0 |
| Millhurst 47416 | 47416 | 9 | 0 | 0 |
| Mohawk 14645 | 14645 | 106 | 0 | 0 |
| Monmouth 57122 | 57122 | 0 | 0 | 0 |
| Moore 24588 | 24588 | 4 | 0 | 139 |
| Morris 14517 | 14517 | 0 | 0 | 0 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Morris Plains 33843 | 33843 | 0 | 0 | 0 |
| Morris Plains 33845 | 33845 | 0 | 0 | 0 |
| Morristown 37849 | 37849 | 0 | 0 | 0 |
| Morristown 37852 | 37852 | 0 | 0 | 0 |
| Morristown 37853 | 37853 | 0 | 0 | 0 |
| Morristown 37854 | 37854 | 0 | 0 | 0 |
| Morristown 37855 | 37855 | 2 | 0 | 0 |
| Morristown 37934 | 37934 | 0 | 0 | 0 |
| Mount Pleasant 37927 | 37927 | 0 | 0 | 0 |
| Mountain 37640 | 37640 | 9 | 0 | 0 |
| Mountain 37642 | 37642 | 0 | 0 | 0 |
| Mountain 37643 | 37643 | 0 | 0 | 0 |
| Mt Fern 17729 | 17729 | 1 | 5 | 1 |
| N Newton 14550 | 14550 | 8 | 22 | 3 |
| Netcong 17570 | 17570 | 0 | 0 | 0 |
| Netcong 17571 | 17571 | 0 | 0 | 0 |
| New Lisbon 67278 | 67278 | 2 | 9 | 0 |
| New Lisbon 67312 | 67312 | 0 | 0 | 0 |
| New Lisbon 67314 | 67314 | 0 | 0 | 0 |
| North Branch 27606 | 27606 | 0 | 0 | 0 |
| Okner 37871 | 37871 | 0 | 0 | 0 |
| Old York 27801 | 27801 | 0 | 0 | 0 |
| Peapack 17615 | 17615 | 6 | 7 | 510 |
| Peapack 17616 | 17616 | 0 | 0 | 0 |
| Pequest River 27665 | 27665 | 31 | 75 | 6 |
| Pleasant Plains 67006 | 67006 | 0 | 0 | 0 |
| Pompton 33753 | 33753 | 0 | 0 | 0 |
| Port Murray 27730 | 27730 | 89 | 148 | 223 |
| Port Murray 27731 | 27731 | 226 | 73 | 359 |
| Raceway 47425 | 47425 | 0 | 0 | 0 |
| Ridge 17028 | 17028 | 435 | 1 | 592 |
| Ridge 17029 | 17029 | 469 | 46 | 63 |
| Ringoes 24651 | 24651 | 0 | 0 | 0 |
| Ringoes 24653 | 24653 | 14 | 38 | 0 |
| Riverdale 37885 | 37885 | 0 | 0 | 0 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Riverdale 37890 | 37890 | 12 | 0 | 13 |
| Rockaway 14524 | 14524 | 0 | 0 | 0 |
| Rosemont 24625 | 24625 | 151 | 104 | 147 |
| Sayreville 43266 | 43266 | 0 | 0 | 0 |
| Short Hills 33894 | 33894 | 0 | 293 | 0 |
| Short Hills 33895 | 33895 | 0 | 0 | 0 |
| Short Hills 37896 | 37896 | 0 | 0 | 0 |
| Short Hills 37897 | 37897 | 6 | 0 | 0 |
| Somerset 17698 | 17698 | 0 | 0 | 0 |
| Somerset 17700 | 17700 | 0 | 0 | 0 |
| South Lakewood 67491 | 67491 | 0 | 0 | 0 |
| South Lakewood 67492 | 67492 | 0 | 0 | 0 |
| South Lakewood 67495 | 67495 | 0 | 0 | 0 |
| Sparta 17695 | 17695 | 0 | 0 | 0 |
| Sparta 17696 | 17696 | 8 | 62 | 19 |
| Sparta 17751 | 17751 | 8 | 2 | 0 |
| Stanton 24403 | 24403 | 0 | 0 | 0 |
| Stewartsville 24611 | 24611 | 0 | 0 | 0 |
| Stirling 37957 | 37957 | 0 | 0 | 0 |
| Summit 33962 | 33962 | 0 | 0 | 0 |
| Summit 33969 | 33969 | 0 | 0 | 0 |
| Summit 33970 | 33970 | 0 | 0 | 0 |
| Taylor Lane 57037 | 57037 | 0 | 0 | 0 |
| Texas Road 47286 | 47286 | 0 | 0 | 0 |
| Texas Road 47287 | 47287 | 0 | 0 | 0 |
| Traynor 33974 | 33974 | 0 | 0 | 0 |
| Traynor 33978 | 33978 | 0 | 0 | 0 |
| Traynor 33980 | 33980 | 0 | 0 | 0 |
| Traynor 37972 | 37972 | 0 | 0 | 0 |
| Traynor 37973 | 37973 | 0 | 0 | 0 |
| Twin Rivers 47104 | 47104 | 0 | 0 | 0 |
| Upton 67294 | 67294 | 0 | 0 | 0 |
| Upton 67295 | 67295 | 0 | 0 | 0 |
| Upton 67303 | 67303 | 0 | 0 | 0 |
| Valley View 33983 | 33983 | 0 | 0 | 0 |

Vegetation Management Circuit Performance Program Report

| 2022 (through July 31, 2022) | | | | |
|------------------------------|---------|-----------------------------|---------------------------------------|---------------------------------|
| Substation Circuit | Circuit | SAIDI Blue-Sky ¹ | SAIDI Minor Weather Days ² | SAIDI Major Events ³ |
| Valley View 33984 | 33984 | 0 | 0 | 0 |
| Valley View 33985 | 33985 | 0 | 0 | 0 |
| Valley View 33986 | 33986 | 0 | 0 | 0 |
| Valley View 33987 | 33987 | 0 | 0 | 0 |
| Vanhiseville 67316 | 67316 | 0 | 0 | 0 |
| Vanhiseville 67319 | 67319 | 1 | 130 | 0 |
| Vermont Ave 67611 | 67611 | 0 | 0 | 0 |
| W Wharton 19201 | 19201 | 0 | 0 | 0 |
| Wall Church 57600 | 57600 | 0 | 0 | 0 |
| Washington 24571 | 24571 | 0 | 0 | 0 |
| Waverly 37990 | 37990 | 0 | 0 | 0 |
| Waverly 37993 | 37993 | 0 | 0 | 0 |
| West Flemington 24532 | 24532 | 0 | 0 | 0 |
| Whitesville 53349 | 53349 | 0 | 0 | 0 |
| Whitney 37736 | 37736 | 0 | 0 | 0 |
| Whitney 37737 | 37737 | 0 | 0 | 0 |
| Woodruffs Gap 14545 | 14545 | 0 | 0 | 0 |
| Wyckoff 47193 | 47193 | 0 | 0 | 0 |
| Wyckoff 47194 | 47194 | 0 | 0 | 0 |
| Wyckoff 47195 | 47195 | 0 | 0 | 0 |

¹ “Blue-Sky” refers to any day other than a Minor Weather Day or a Major Event.

² “Minor Weather Day” refers to any day that meets the minimum criteria used by FirstEnergy in-house meteorologists to trigger the issuance of a weather alert, which includes: (A) Winter precipitation, meaning (i) ice or freezing rain of 0.25 inch or more within a 24-hour period; and (ii) four inches or more of snow within a 24-hour period (wet or dry snow); (B) Wind speeds 40 mph or higher; and/or (C) Lightning strikes greater than or equal to ten strikes.

³ “Major Event” has the defined meaning set forth in N.J.A.C. 14:5-1.2.

Vegetation Management Circuit Performance Program Report

Appendix C

17 Circuits With Tree-Related SAIDI Reliability Performance In The Bottom 12% For Two of the Last Four Consecutive Years (2018 - 2021) Compared To The Four Year Rolling Average (2018 – 2021) Tree-Related SAIDI Performance as of July 31, 2021

| Substation | Circuit | Status of Assessment of Tree-Related Outages ¹ | Vegetation Management Activities ² | | | Off ROW Assessment ³ | | |
|----------------|---------|---|---|-------------------------|-------------------------|---------------------------------|-------------------------------------|-------------------------------------|
| | | | Status | Circuit Miles Completed | Circuit Miles Remaining | Status | Hazard Trees Identified for Removal | Danger Trees Identified for Removal |
| Applegarth | 47357 | Complete | Complete | 25.59 | 0 | Complete | 7 | 327 |
| Elberon | 53149 | Complete | Complete | 4.78 | 0 | Complete | 0 | 19 |
| Hornerstown | 67291 | Complete | In Progress | 67.91 | 2.04 | Complete | 4 | 269 |
| Branchville | 17631 | Complete | In Progress | 2.98 | 6.84 | Complete | 164 | 126 |
| Denville | 14625 | Complete | In Progress | 6.21 | 5.64 | Complete | 145 | 89 |
| Greater Xroads | 17594 | Complete | In Progress | 17 | 0.15 | Complete | 129 | 201 |
| Greater Xroads | 17595 | Complete | In Progress | 23.88 | 12.99 | Complete | 274 | 195 |
| Holiday Lakes | 17301 | Complete | In Progress | 29.13 | 6.73 | Complete | 41 | 77 |
| Landing | 17742 | Complete | In Progress | 9.7 | 3.41 | Complete | 65 | 0 |
| Lebanon | 24597 | Complete | Complete | 22.79 | 0 | Complete | 65 | 168 |
| Mendham | 17647 | Complete | In Progress | 0.4 | 25.01 | In Progress | 0 | 0 |
| Mendham | 17649 | Complete | In Progress | 3.2 | 17.4 | In Progress | 0 | 0 |
| MT Arlington | 14604 | Complete | In Progress | 0.34 | 3.13 | In Progress | 15 | 18 |
| MT Arlington | 17603 | Complete | In Progress | 2.56 | 17.77 | In Progress | 28 | 15 |
| Neshanic | 24580 | Complete | In Progress | 30.46 | 4.65 | In Progress | 24 | 185 |
| Neshanic | 27451 | Complete | In Progress | 15.07 | 6.95 | In Progress | 7 | 37 |
| Rocktown Rd | 24583 | Complete | Complete | 16.6 | 0 | Complete | 61 | 160 |

¹The assessment of tree-related outages includes a physical inspection of the circuit by a forester and an analysis of tree-related outages, including tree-related SAIDI performance in Zone 1 and Zone 2, to determine trees downstream of protective devices that have operated, that may be trimmed or removed to address tree-related outages. This assessment is performed to determine a work plan for enhanced on-cycle work to improve the circuit’s tree-related SAIDI performance.

²Vegetation management activities include on-cycle tree trimming and/or removal and herbicide application as necessary.

³The off-ROW assessment includes the identification of Hazard and Danger trees to be removed.

In the Matter of the Verified Petition of Jersey Central Power & Light Company for Review and Approval of Increases in and Other Adjustments to Its Rates and Charges For Electric Service, and For Approval of Other Proposed Tariff Revisions in Connection Therewith (“2020 Base Rate Filing”) BPU Docket No. ER20020146 Vegetation Management Circuit Performance Report- Compliance Filing

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