

City of Jacksonville Beach, Florida
dba/Beaches Energy Services
Report to the Florida Public Service Commission Pursuant
to Rule 25-6.0343, F.A.C.
Calendar Year 2022

1) Introduction

a) Name of city/utility:

City of Jacksonville Beach, Florida/dba Beaches Energy Services

b) Address, street, city, zip:

1460 Shetter Ave.
Jacksonville Beach, FL 32250

c) Contact information: Name, title, phone, email

Contact person: Allen Putnam
Title: Director, Beaches Energy Services
Phone number: (904) 247-6259
Email: aputnam@beachesenergy.com

Contact person: Don R. Cuevas, PE
Title: Electrical Engineering Supervisor
Phone number: (904) 270-1686
Email: dcuevas@beachesenergy.com

2) Number of meters served in calendar year 2022

As of December, 31st, 2022 the number of electric meters served by Beaches Energy Services was 35,708 or:

| | |
|--------------------------------------|------------|
| Residential Meters | 30,525 |
| General Service Non-Demand Meters | 4,509 |
| General Service Demand Meters | 322 |
| Net Meter (Solar/PV, etc.) | 229 |
| City Accounts (GS Non-Demand Meters) | 103 |
| City Accounts (GS Demand Meters) | 20 |
| Total | 35,708 |

3. Facility Inspections

- a) **Describe the utility’s policies, guidelines, practices, and procedures for inspecting transmission and distribution lines, poles, and structures including, but not limited to, pole inspection cycles and pole selection process.**

Transmission - Beaches Energy Services has 138kV transmission circuits. All of Beaches Energy Services’ transmission structures are spun or cast concrete poles, except for thirteen (13) monotube steel poles and two (2) H-frame steel structures. As a result, there is little structural deterioration. Beaches Energy Services line crews perform the transmission line inspections, which are performed on an annual basis. They typically inspect the transmission structure’s insulators, down guys, grounding and pole integrity.

Distribution - During 2007, Beaches Energy Services contracted with Osmose Utilities Services, Inc., to perform a general pole by pole inspection (sound and bore with excavation) for all distribution wood poles using the NESC standards for decay and reject status. Osmose Utilities Services, Inc., inspected 100% of our distribution wood poles. Poles 10 years and older were also treated at ground level for rot and/or decay. In addition to the required documentation and treatment, Osmose tagged and provided GPS coordinates for all of our wood and concrete distribution structures.

- It has been initially determined that this inspection process by Osmose Utilities Services, Inc., will continue to be performed on a cycle of once every eight (8) years. After (8) years, Osmose was considered again, however, Beaches Energy Services decided to buy the IML inspection equipment and Beaches Energy Services started performing the inspections.
- In 2015 Beaches Energy Services started using the IML PD600 Resistograph for wood pole testing and inspection.

WOOD POLES INSPECTION USING IML

| YEAR | WOOD POLES TESTED AND INSPECTED |
|------|---------------------------------|
| 2015 | 800 |
| 2016 | 300 |
| 2017 | 75 |
| 2018 | 150 |
| 2019 | 165 |
| 2020 | 485 |

| | |
|------|-----|
| 2021 | 100 |
| 2022 | 151 |

Six poles that failed to meet requirements were replaced. Seventeen more that failed to meet requirements are scheduled to be replaced in 2023.

b) Describe the number and percentage of transmission and distribution inspections planned and completed for 2022.

Transmission - 100% of Beaches Energy Services 424 transmission structure inspections were scheduled and completed.

Distribution - 100% of Beaches Energy Services 4,657 distribution wood and concrete pole inspections were scheduled and completed in 2007 (4,021 distribution wood pole inspections and 636 distribution concrete pole inspections).

NEW POLES INSTALLED AND INSPECTED

| YEAR | NEW POLES INSTALLED AND INSPECTED |
|------|-------------------------------------|
| 2008 | 92 concrete poles and 55 wood poles |
| 2009 | 88 concrete poles and 23 wood poles |
| 2010 | 68 concrete poles and 9 wood poles |
| 2011 | 89 concrete poles and 3 wood poles |
| 2012 | 71 concrete poles |
| 2013 | 138 concrete poles |
| 2014 | 34 concrete poles |
| 2015 | 7 concrete poles |
| 2016 | 39 concrete poles |
| 2017 | 38 concrete poles |
| 2018 | 33 concrete poles |
| 2019 | 62 concrete poles |

2020 15 concrete poles
 2021 18 concrete poles
 2022 16 concrete poles

In 2015, Beaches Energy Services started using the IML PD600 Resistograph for wood pole testing and inspection.

PERCENT OF POLES TESTED AND INSPECTED USING IML

| YEAR | TOTAL POLES | POLES TESTED | PERCENT OF POLES TESTED |
|------|-------------|--------------|-------------------------|
| 2015 | 5145 | 800 | 15.55% |
| 2016 | 5354 | 300 | 5.60% |
| 2017 | 5307 | 75 | 1.41% |
| 2018 | 5304 | 150 | 2.83% |
| 2019 | 5266 | 165 | 3.13% |
| 2020 | 5239 | 485 | 9.26% |
| 2021 | 5212 | 100 | 1.92% |
| 2022 | 5209 | 151 | 2.89% |

c) Describe the number and percentage of transmission poles and structures and distribution poles failing inspection in 2022 and the reason for the failure.

Transmission – Three of the Four hundred twenty-four (less than 1%) transmission poles have some structural damage/deterioration. These three poles are included in the planned Transmission Line Hardware Renewal and Replacement Project.

Distribution – Twenty-three of the Five thousand two hundred nine (less than 1%) distribution structures failed inspection due to wood pecker holes.

d) Describe the number and percentage of transmission poles and structures and distribution poles, by pole type and class of structure, replaced or for which remediation was taken after inspection, including a description of the remediation taken.

Transmission – Three of the Four hundred twenty-four or less than 1% of the total transmission poles are included in the planned Transmission Line Hardware Renewal and Replacement Project.

Distribution - 100% of all of our 4,657 distribution wood and concrete pole inspections were scheduled and completed in 2007 (4,021 distribution wood pole inspections and 636 distribution concrete pole inspections). Rather than repair them, all 164 of the distribution wood pole structures that failed inspection in 2007 were replaced. The 164 wood poles that were replaced represent approximately 3.5% of our total distribution poles.

In 2015, three (3) poles were replaced.

In 2016, no pole failed inspection and no pole was replaced.

In 2017, no pole failed inspection and no pole was replaced.

In 2018, no pole failed inspection and no pole was replaced.

In 2019, three (3) poles were replaced.

In 2020, sixteen (16) wood poles were replaced.

In 2021, one (1) wood pole was replaced

In 2022, six wood poles were replaced and seventeen will be replaced in 2023.

4. Vegetation Management

- a) **Describe the utility's policies, guidelines, practices, and procedures for vegetation management, including programs addressing appropriate planting, landscaping, and problem tree removal practices for vegetation management outside of road right-of-ways or easements, and an explanation as to why the utility believes its vegetation management practices are sufficient.**

Transmission - Beaches Energy Services maintains transmission line clearances in accordance with the NERC Reliability Standard FAC-003 requirements.

All transmission lines are inspected and trimmed as needed prior to the start of each hurricane season.

Transmission line Rights-of-Way are mowed and maintained on an annual basis.

Beaches Energy Services believes our vegetation management practices are sufficient since we maintain the NERC standard.

Distribution - Beaches Energy Services has tree trimming crews/contractors, working year-round in our Electric Service Territory. The objective is to maintain a two to three year vegetation management cycle for transmission and distribution lines.

- b) **Describe the quantity, level, and scope of vegetation management planned and completed for transmission and distribution facilities in 2022.**

Beaches Energy Services fully completed all FY2022 vegetation management activities described above. Vegetation management activities for FY2023 are on schedule.