

**Jacksonville, Florida / JEA
Report to the Florida Public Service Commission Pursuant to
Rule 25-6.0343, F.A.C.
Calendar Year 2021**

1) Introduction

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2. Number of meters served in calendar year 2021

JEA served approximately 495,000 electric meters in 2021.

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.**

Distribution - JEA continues to perform a visual inspection on all poles for insulators, arrestors, cross arms, transformers and pole integrity. Ground resistance (ohms) is measured on equipment ground rods and corrective maintenance is initiated as required. JEA uses the NESC standards for wood decay and reject status for the wood poles. Guided by 7 years of accumulated data, wooden poles older than 20 years are inspected at and below ground level with an IML Resistograph micro drill. This process detects unseen decay below ground without damaging the pole. JEA transitioned from using internal staff/line maintainers in the beginning of calendar year 2020 to using contract linemen at the end of 2020 through 2021.

Transmission - JEA owns and maintains 240KV, 138KV and 69KV transmission circuits. Every transmission circuit is inspected on a 5-year cycle with the exception of “critical” N-1, 240KV circuits which are inspected on a 2-year cycle. JEA inspects on average

approximately 20 transmission circuits per year. JEA's transmission circuit inspections are performed in accordance with the JEA "Transmission Circuit Inspection Practices and Procedures" manual. JEA utilized a contractor to perform transmission circuit inspections prior to February 2013. In February 2013 JEA created, equipped, and staffed a five (5) man, one (1) foreman, "Transmission Crew" and self-performed transmission circuit inspections until October 2016 when JEA began utilizing a contractor to perform circuit inspections again.

b) Describe the number and percentage of transmission and distribution inspections planned and completed for 2021.

Distribution - During calendar year 2021, JEA inspected 19,129 poles and identified 2,762 defectives to be replaced. This yielded an overall defect rate of 14% for all of the inspected areas.

Transmission - JEA is currently using a 5 year transmission circuit inspection cycle except for three (3) critical N-1 circuits. JEA completed 28 (1421 structures) circuit inspections in calendar year 2021. 0 of the 28 circuits inspected were critical N-1 circuits.

c) Describe the number and percentage of transmission poles and structures and distribution poles failing inspection in 2021 and the reason for the failure.

Distribution - Based on 2021 inspections: 14% of poles failed inspection. Approximately 38% of the failures are for ground decay, 61% of the failures are for pole top decay or damage and .4% for middle decay or damage.

Transmission - Based on the 2021 inspections, 0 poles were identified requiring replacement. 0- 230 KV (type) poles need repairs, 6 -138 KV (concrete) poles needed repairs due to lightning damage.

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 in 2021, including a description of the remediation taken.

Distribution – Based on 2021 Inspections: The poles listed as emergency poles (approx. 1%) are replaced immediately. The priority 2 poles are put on a list and scheduled for

repair. In 2021, 1442 poles were replaced.

Transmission – Based on previous circuit inspections: JEA replaced 23 poles (approximately .004% of all transmission poles), 11 being 69 KV (wood) transmission poles and 6 being 138 KV (wood) poles and 6 being 230 KV (wood) poles in 2021. 0 poles were identified for replacement in 2021, but 2 of the 23- 69 KV (wood) poles were replaced immediately due to vehicle accidents (approximately 0.0003% of all transmission poles). 0 poles were replaced in 2021 due to 2021 inspections.

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 - JEA maintains transmission line clearances and reporting in accordance with the NERC Reliability Standard FAC-003 requirements.

Distribution - JEA has maintained a 3-year trim cycle on feeder and lateral circuits until FY2007 (October 2006). The cycle was verified by benchmarking and an engineering study performed in 2000. In an effort to improve reliability even further – as requested by our customers – JEA started a 2.5 year trim cycle for the feeder and laterals in FY2007 (October 2006) and completed the first 2.5 year trim cycle in April 2009. FY2022 (October 2021), the 2.5 year trim cycle remains in effect.

- b) Describe the quantity, level, and scope of vegetation management planned and completed for transmission and distribution facilities in 2021.**

JEA fully completed all 2020 vegetation management activities described above. In November 2017 FRCC completed an audit for NERC Standards and FAC-003-4 was identified as the only “Noteworthy” standard audited. In July 2020, SERC/NERC/FERC concluded a successful audit covering the last three years with an excellent report with “No Findings”.