

**Report to the Florida Public Service Commission Pursuant to
Rule 25-6.0343, F.A.C.
Calendar Year 2014**

1) Introduction

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2) Number of meters served in calendar year 2014

31792

3) Standards of Construction

- a) National Electric Safety Code Compliance

Construction standards, policies, guidelines, practices, and procedures at Florida Keys Electric Cooperative Association, Inc., comply with the National Electrical Safety Code (ANSI C-2) [NESC]. For electrical facilities constructed on or after February 1, 2007, the 2007 NESC applies. Electrical facilities constructed prior to February 1, 2007, are governed by the edition of the NESC in effect at the time of the facilities initial construction.

- b) Extreme Wind Loading Standards

Florida Keys Electric Association, Inc., facilities were not originally designed to the extreme loading standards on a system wide basis. However, Florida Keys Electric Cooperative Association, Inc. adopted the extreme wind loading standard on April 24, 2007 for:

- a) New construction
- b) Major planned work, including expansion, reconstruction or relocation of existing facilities

c) Flooding or Storm Surges

Florida Keys Electric Cooperative Association, Inc. continues to evaluate and modify our standards, policies, guidelines, practices and procedures that address the effects of flooding and storm surges on underground facilities and supporting overhead facilities. FKEC is participating in the Public Utility Research Center's (PURC) study on the conversion of overhead electric facilities to underground and the effectiveness of undergrounding facilities in preventing storm damage and outages through the Florida Electric Cooperative Association.

d) Safe and Efficient Access of New and Replacement Distribution Poles

Electrical construction standards, policies, practices and procedures at Florida Keys Electric Cooperative Association, Inc., provide for placement of new and replacement distribution facilities so as to facilitate safe and efficient access for installation and maintenance. Wherever new facilities are placed, all facilities are installed so that FKEC facilities are accessible by its crews and vehicles to ensure proper maintenance/repair is performed as expeditiously and safely as possible. FKEC decides on a case-by-case basis whether existing facilities need to be relocated. If it is determined that facilities need to be relocated, they will be placed in the safest, most accessible area available.

e) Attachments by Others

Electrical construction standards, policies, guidelines, practices and procedures at Florida Keys Electric Cooperative Association, Inc., include written safety, pole reliability, pole loading capacity and engineering standards and procedures for attachments by others to the utility's electric transmission and distribution poles. FKEC included inspection of third party contacts in the formal distribution pole inspection which began in 2007 and was completed in 2010. Inspections have resumed in 2015.

4. 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.

Florida Keys Electric Cooperative Association Inc. conducts aerial inspections on all transmission structures annually. Distribution poles are inspected on a four-year cycle. FKEC began a formal distribution pole inspection and treatment program in 2007. The inspection cycle was completed in 2010. Inspections and treatment have resumed in 2015. The system will be completed 2018.

All distribution wood poles (10698) in the system have been tested and treated since 2007. All rejects (1003) have been replaced. The reject rate for the 2007-2010 cycle was 9%.

b) Describe the number and percentage of transmission and distribution inspections planned and completed for 2014.

One hundred percent of FKEC's transmission poles were inspected by helicopter in 2014. The inspection of all distribution poles was completed in 2010.

c) Describe the number and percentage of transmission poles and structures and distribution poles failing inspection in 2014 and the reason for the failure.

No transmission structures failed inspection in 2014. All transmission poles or structures are either steel or concrete. No distribution poles were inspected.

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 2014, including a description of the remediation taken.

No transmission poles were replaced in 2014.

All pole replacements identified in the 2007-2010 Osmose inspections were replaced prior to 2014.

5. 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.

Florida Keys Electric Cooperative Association, Inc. inspects and trims, where necessary, the entire transmission system on an annual basis. Substations are inspected annually and trimmed when vegetation encroaches. The remainder of FKEC's distribution system is trimmed on a three-year cycle. A formal trade-a-tree program was implemented in 2007 to help with the removal of problem trees located within the right of way.

b) Describe the quantity, level, and scope of vegetation management planned and completed for transmission and distribution facilities in 2014.

Annual transmission line right-of-way clearing from mile marker 106 on County Road 905 to the Dade/Monroe County line was completed in the first quarter of 2014. The remainder of the transmission system was spot-trimmed as necessary.

Vegetation surrounding all substations was trimmed prior to April 1, 2014. Approximately 120 circuit miles of distribution lines were trimmed in 2014. Additional distribution spot-trimming was conducted as necessary.