

City of Moore Haven
Storm Hardening Report to the Florida Public Service Commission
Pursuant to Rule 25-6.0343, F.A.C.
Calendar Year 2016

1) Introduction

City of Moore Haven
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2) Number of meters served in calendar year 2016:

For calendar year 2016 in the month of December, the City of Moore Haven served 1021 residential customers and 1192 commercial customers for a total of 943 customers.

3) Standards of Construction:

The City of Moore Haven does not officially list standards for our distribution system. We use consulting engineers that follow all current applicable standards in construction of our electric distribution system. Any new large construction project is designed by a Florida registered electrical engineer on a consultant basis. Small projects are designed with assistance from Glades Electric Cooperative engineers.

a) National Electric Safety Code Compliance:

The City of Moore Haven uses consulting engineers; all current NESC requirements are incorporated in to designs for new construction, major rebuilds, or targeted critical infrastructure facilities.

b) Extreme Wind Loading Standards:

The City of Moore Haven uses consulting engineers; all current Extreme Wind Loading Standards are incorporated in to designs for new construction, major rebuilds, or targeted critical infrastructure facilities. At this time the City of Moore Haven facilities are not designed to be guided by the extreme loading standards on a system wide basis. The City is participating in the Public Utility Research Center's granular wind research study through the Florida Municipal Electric Association. We continue to self-audit and evaluate our system to determine immediate needs for system upgrades and hardening in specific areas. The City has performed many "storm hardening" activities during calendar year 2015 such as relocating services from easements to road right-of-ways for easier access, upgrading guy systems, inspecting sag of power lines and resagging as needed, patching and/or replacing power poles, and total tree removal from power lines.

c) Flooding and Storm Surges:

The City of Moore Haven is a non-coastal community, therefore, storm surge or flooding is not a major issue. New construction or major rebuilds that have the possibility of flooding are factored in to the design.

d) Safe and Efficient Access of New and Replacement Distribution Facilities:

Electrical construction guidelines, practices, and procedures at the City of Moore Haven 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 they are accessible by crews and vehicles to ensure proper maintenance/repair can be performed expeditiously and safely as possible. The City decides on a case by case basis whether existing facilities need to be relocated.

e) Attachment by others:

The pole attachment agreement between the City and third-party attachers includes language which specifies that the attacher, not the City, has the burden of assessing the impact on pole strength and safety before they attach to the pole. This language will be negotiated with the attacher.

4. Facility Inspections

- a) The City of Moore Haven continuously inspects distribution lines, poles and structures. As discrepancies are located the electric crew, consisting of two linemen, plan and perform repairs. We perform a visual inspection of all poles within every year. We also perform physical inspections of poles using the sound method. The City inspected and upgraded the system where and when needed. The City has inspected all of the poles and applied pole patch to the top above the crossarms where needed and replaced the poles as needed. The City has also straightened and restabilized leaning poles.
- b) The City of Moore Haven continuously inspected lines, poles, and structures during 2016. The City is one square mile and easily inspected during routine activities. The City replaced four (4) 30' poles, eighteen (18) 35' poles, two (2) 40' poles, and one (1) 45' pole.
- c) The City of Moore Haven is upgrading our 3-phase poles. The City has no transmission lines or poles.
- d) The City of Moore Haven has constantly worked on the rear-of secondary, making them more accessible to the crew. The City has approximately 410 poles in the distribution system and street lighting.

5. Vegetation Management

- a) The City of Moore Haven is continuously trimming trees located in easements and on right-of-ways. 100% of the power distribution system is trimmed every year. The City is monitoring all new construction on private property and communicating with owners the importance of locating vegetation away from all utilities. The City of Moore Haven is a small town of one square mile. Most residents are willing to comply with requests of the City concerning vegetation near utilities.
- b) The City of Moore Haven expended approximately 20% of our Electric Dept. Resources to vegetation management. All vegetation management is performed in-house.

6. Storm Hardening Research

The City of Moore Haven is a member of the Florida Municipal Electric Association (FMEA), which is participating with all of Florida's electric utilities in storm hardening research through the Public Utility Research Center at the University of Florida. Under separate cover, FMEA is providing the FPSC with a report of research activities. For further information, contact Amy Zubaly, Executive Director, FMEA, 850-224-3314, ext. 1, or azubaly@publicpower.com.