

June 1, 2021

#### **E-PORTAL FILING**

Mr. Adam Teitzman, Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

#### Re: 20210000-OT – Undocketed Filings for 2021.

Dear Mr. Teitzman:

Attached for filing on behalf of Florida Public Utilities Company, please find the Company's 2021 Distribution Reliability Report for the prior period 2020, including the Annual Wood Pole Inspection Report, and updates of FPUC's Storm Hardening Plan and Ten Storm Preparedness Initiatives.

As always, please don't hesitate to let me know if you have any questions. Thank you for your assistance with this filing.

Kind regards,

Beth Keating

Gunster, Yoakley & Stewart, P.A. 215 South Monroe St., Suite 601 Tallahassee, FL 32301 (850) 521-1706

cc:/ Tom Ballinger Penelope Buys



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June 1, 2021

Mr. Thomas Ballinger, Director Division of Engineering Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0868

Dear Mr. Ballinger:

Attached is Florida Public Utilities Company's required 2020 Annual Update. The update includes the Annual Wood Pole Inspection Report required by Order No. PSC-06-0144, and updates of our Storm Hardening Plan and Ten Storm Preparedness Initiatives, as required by Order No. PSC-06-0781. A new SPP update will be included in our June 2022 filing.

If you have any questions, please call (904) 530-7052 or e-mail mcassel@chpk.com.

Sincerely,

Miled Call

Michael Cassel Director, Business Management & Analysis Florida Public Utilities Company

Attachments

Cc: Commission Clerk Jeff Sylvester Martin Cheryl Buddy Shelley Mark Cutshaw Jorge Puentes

# Florida Public Utilities Company

# Wood Pole Inspections, Storm Hardening Plan, and Storm Preparedness Initiatives

## 2020 Annual Update

## June 1, 2021



## Florida Public Utilities Company

#### Reliability, Wood Pole Inspections, Storm Hardening, and Storm Preparedness Initiatives

**Annual Update** 

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## Introduction

This is the FPUC annual update. The update includes the Annual Wood Pole Inspection Report required by Order No. PSC-06-0144, and updates of our Storm Hardening Plan and Ten Storm Preparedness Initiatives, as required by Order No. PSC-06-0781. The update is divided into three primary sections: I. Wood Pole Inspections; II. Storm Hardening; and, III. Storm Preparedness Initiatives. FPUC report forms, research reports, contractor reports, and other available supplemental supporting documentation are incorporated into the appropriate sections of the update. FPSC reliability index report forms have been updated and are also included.

FPUC has two electric divisions, Northwest (NW) Division, also referred to as Marianna, and Northeast (NE) Division, and also referred to as Fernandina Beach. In some cases, each division's results are reported separately. For example, NW has no transmission facilities. Therefore, only NE will be reporting on Storm Preparedness Initiatives #3 (Six Year Transmission Structure Inspections) and #4 (Storm Hardening of Existing Transmission Structures). Also, the two divisions are approximately 250 miles apart and, although they may supply resources to support one another during emergency situations, each division will prepare separate emergency response plans to address Initiative #10 (Natural Disaster Preparedness and Recovery Program). In other cases, consolidated reports or a combination of individual and consolidated reports provide a more complete overview and reports are prepared accordingly.

## I. Wood Pole Inspections

#### **Introduction**

To comply with FPSC Order No. PSC-06-0144, in 2008 Florida Public Utilities Co. (FPUC) implemented an 8-year cycle wood pole inspection program. The most current edition of the National Electric Safety Code (NESC) serves as a basis for the design of replacement poles for wood poles that fail inspection. Grade 'B' construction, as described in Section 24 of the NESC, has been adopted as the standard of construction for designing new pole installations and the replacement of reject poles in each FPUC Electric Division (NE & NW). Extreme wind loading, as specified in rule 250C and figure 250-2(d) of the NESC, has been adopted. Therefore, 130 mph for the NE Division (Fernandina) and 120 mph for NW Division (Marianna) are used for extreme wind loading.

Wood pole inspections are performed by a qualified wood pole inspection contractor. Inspection results are summarized for each division using the Wood Pole Inspection Reports included in this section. Also included are bar charts and tables that show inspection results summary, failure rates, and pole ages.

The number of inspections may vary from year-to-year based upon a variety of factors. FPUC will complete all required wood pole inspections during the eight year wood pole inspection cycle. In 2016 FPUC began the first year of the second cycle for both divisions.

#### **Inspection Process**

The first inspection is a visual inspection to determine if there are any defects that require pole replacement. If the visual inspection indicates that the pole is not suited for continued use, it is rejected by the contractor and reported to FPUC for follow-up.

If the pole passes visual inspection, the pole is sound and bore tested to determine the internal condition of the pole. If the sound and bore inspection indicates that the pole is not suited for continued use, the pole is rejected by the contractor and reported to FPUC for follow-up.

If the pole passes the sound and bore test, the pole is excavated a minimum of 18 inches in depth and tested. If this test indicates the pole is suitable for continued service, the pole is treated and backfilled. If this test indicates the pole is not suited for continued use, it is rejected by the contractor and reported to FPUC for follow-up.

Beginning in 2014, the inspections were performed with modified criteria for CCA pole inspections. CCA poles less than 21 years of age are visually inspected, sounded, and selectively bored. Boring is performed only if internal decay is suspected. Unless a pole failed sound and bore, a full excavation is not performed on these poles.

#### **Strength and Loading Assessment**

The contractor performs Strength Assessment tests on selected poles to compare the current measured circumference to the original circumference of the pole. The effective circumference

of the pole is determined to ensure that the current condition of the pole meets the requirements of NESC Section 26 "Strength Requirements". Beginning in 2010, pole inspection criteria were enhanced to include LoadCalc, a program used by the contractor to determine pole loading, analysis on poles with remaining strength at or below 67%. If the 'required' remaining strength resulting from the combined strength and load analysis indicates that the pole is not suited for continued use, the contractor rejects the pole and reports it to FPUC for follow-up.

Poles having 3<sup>rd</sup> party attachments of <sup>1</sup>/<sub>2</sub>" or larger in diameter are also assessed for loading with LoadCalc by the contractor. When conducting the Loading Assessment, span lengths, attachment heights, wire sizes, and 3<sup>rd</sup> party attachments are analyzed to estimate pole loading. Poles identified by the contractor as being loaded at or above 100% are re-evaluated by FPUC engineers using a program called PoleForeman. NESC Grade B construction & 60 mph winds provide the basis for calculations. Poles loaded at or above 100% following re-evaluation are replaced. Additional discussion about 3<sup>rd</sup> party attachments is provided in Storm Preparedness Initiatives section under Initiative #2, "Joint Use Pole Attachment Audit".

#### Post Inspection Follow-Up

The contractor provides FPUC with follow up reports.

**Poles Needing Maintenance Report:** Maintenance items are provided to FPUC construction employees. The poles are re-inspected and assigned a priority based upon potential hazard to public and employee safety. Repairs are then made in order of priority.

**Reject Poles Report:** FPUC policy is to replace all reject poles in lieu of bracing "restorable" reject poles. Poles are prioritized for replacement using the reject severity level awarded by the inspector as the basis. Each pole is analyzed by FPUC engineers. A computer program called PoleForeman is used to make sure the new poles meet the storm hardening criteria discussed in the first paragraph of this section.

The list of reject poles is provided to 3<sup>rd</sup> party attachers so they may give feedback concerning planned attachments that require increased pole size for added loading.

#### <u>Summary</u>

FPUC collects and stores pole inspection data upon completion of annual wood pole inspections. The contractor provides FPUC with wood pole inspection data that includes pole location, size, class, test results, and general comments. The contractor provides inspection summary data via an On-line Data Center that allows FPUC to create specific reports and view detailed or summary information. The On-line Data Center is essential for post inspection follow up.

The inspection contractor is required to perform quality control assessments of their work to ensure FPUC pole inspection requirements are being met. The contractor provides documentation that these assessments have taken place.

|  | Florida Public Utilities Company - NE Division<br>Annual Wood Pole Inspection Report<br>Year #5 of 2 <sup>nd</sup> 8 Year Cycle<br>(Inspection Year 2020) |   |  |  |                                |                                     |                                     |  |  |   |                                       |   |   |  |  |
|--|---|---|--|--|--------------------------------|-------------------------------------|-------------------------------------|--|--|---|---------------------------------------|---|---|--|--|
| а  | b   | С   | CDefghijklmno                                      |  |                                |                                     |                                     |  |  |   |                                       |   |   |  |  |
| Total # of<br>wood<br>poles in<br>NE<br>Division | # of pole<br>inspections<br>planned<br>for this<br>year   | Backlog<br>included<br>in plans<br>for this<br>year | # of pole<br>inspections<br>completed<br>this year | # of poles<br>failing<br>inspection<br>this year | % failure<br>rate this<br>year | # failures<br>replaced<br>this year | # failures<br>repaired<br>this year | Total # of<br>failures<br>remaining<br>to be<br>replaced | Total # of<br>failures<br>remaining<br>to be<br>repaired | # of poles<br>requiring<br>maint.<br>follow-up<br>this year | # of poles<br>overloaded<br>this year | Total # of<br>poles<br>inspected<br>in 8 yr<br>cycle to<br>date | Total % of<br>poles<br>inspected<br>in 8 yr<br>cycle to<br>date | # of pole<br>inspections<br>planned<br>next year |  |
| 5,083  | 828   | 0   | 855  | 147  | 17%                            | 112                                 | 0                                   | 35   | ο  | 224   | 0                                     | 3,352   | 66%   | 599  |  |
|  | provide<br>nation   |   |  |  |                                |                                     |                                     |  |  |   |                                       |   |   |  |  |
| pro  | h < e,<br>vide<br>nation  | Remaining   | backlog of po                                      | bles due to C                                    | OVID-19 imp                    | oacting work                        | ing schedule                        | s.   |  |   |                                       |   |   |  |  |
|  | Additional<br>Information FPUC is working to complete remaining poles   |   |  |  |                                |                                     |                                     |  |  |   |                                       |   |   |  |  |

|   | Florida Public Utilities Company - NW Division<br>Annual Wood Pole Inspection Report<br>Year #5 of 2 <sup>nd</sup> 8 year Cycle<br>(Inspection Year 2020) |  |  |  |                             |                                     |                                     |   |   |   |                                       |  |   |  |
|---|---|--|--|--|-----------------------------|-------------------------------------|-------------------------------------|---|---|---|---------------------------------------|--|---|--|
| a                                       | a b C d e f g h i j k l m n o   |  |  |  |                             |                                     |                                     |   |   |   |                                       |  |   |  |
| Total # of wood poles<br>in NW Division | # of pole<br>inspections<br>planned for this<br>year  | Backlog<br>included in<br>plans for this<br>year   | # of pole<br>inspections<br>completed<br>this year | # of poles<br>failing<br>inspection<br>this year | % failure rate<br>this year | # failures<br>replaced this<br>year | # failures<br>repaired this<br>year | Total # of<br>failures<br>remaining to<br>be replaced | Total # of<br>failures<br>remaining to<br>be repaired | # of poles<br>requiring<br>maint. follow-<br>up this year | # of poles<br>overloaded<br>this year | Total # of poles<br>inspected in 8 yr<br>cycle to date | Total % of poles inspected<br>in 8 yr cycle to date | # of pole<br>inspections<br>planned<br>next year |
| 26617                                   | 3436  | 77   | 3436   | 245  | 7.13                        | 18                                  | 0                                   | 698   | 0   | 0   | 0                                     | 14,937   | 56.12%  | 3,300  |
| If d < b, provide                       | explanation   |  |  |  |                             |                                     |                                     |   |   |   |                                       |  |   |  |
| If g + h < e,<br>explana                |   | Remaining backlog of poles due to double inspection in 2019 and COVID-19 impacting working schedules |  |  |                             |                                     |                                     |   |   |   |                                       |  |   |  |
| Additional In                           | Additional Information FPUC has hired outside contracting assistance to catch up on backlog.  |  |  |  |                             |                                     |                                     |   |   |   |                                       |  |   |  |

## II. Storm Hardening Update

#### **Introduction**

This is the required annual update of the FPUC Storm Hardening Plan. Wood pole inspection is addressed in more detail in Section II of this update. More extensive updates for the ten storm preparedness initiatives can be found in Section IV.

#### **Compliance with NESC Requirements:**

The National Electric Safety Code (NESC) serves as a basis for the design and construction of new and replacement FPUC facilities. Pursuant to subsection 25-6.0345 (2), F.A.C., all FPUC facilities were installed in accordance with NESC requirements in effect at the time of their installation. To enhance FPUC storm hardening efforts, more stringent Grade 'B' construction, as described in Section 24 of the 2012 edition of the NESC, has been adopted as the standard for the design and installation of all future new and replacement poles in each FPUC Electric Division (NE & NW).

#### **Extreme Wind Loading:**

Extreme wind loading, as specified in rule 250C and figure 250-2(d) of the 2012 edition of the NESC, has been adopted, as follows: 130 mph wind speed for wind loading in NE Division (Amelia Island) and 120 mph wind speed for wind loading in NW Division (Marianna).

#### Mitigation of Damage Due to Storm Surge and Flooding:

FPUC continues to develop specifications for mitigating damage to underground and overhead distribution and transmission facilities caused by flooding and storm surges. Additionally, FPUC is participating along with other investor owned, cooperative, and municipal electric utilities in the Public Utility Research Center (PURC) research regarding hurricane winds and storm surge within the state.

FPUC transmission facilities are located in the Northeast (Florida) Division only. Transmission lines constructed near and across coastal waterways were originally designed to meet, at a minimum, NESC requirements for those applications. Where necessary, foundations and casings were used to stabilize the structures due to the soil conditions.

Some overhead distribution lines in both divisions are subject to storm surges and flooding. Lines located near the coast or inland waterways that are subject to storm surges or flooding are continually evaluated. Additional supporting mechanisms are installed when practicable. This includes storm guys or pole bracing, as needed. Storm guys or bracing are being placed so that additional support is achieved perpendicular to the distribution line. Potentially affected lines that have reclosers, capacitors, or regulators that require electronic controls have associated controls mounted above maximum anticipated surge or flood levels.

Underground distribution lines subject to potential storm surges and flooding are mainly located in Northeast Florida Division. Storm hardening specifications include the use of reinforced concrete pads with legs on each corner that are poured approximately two feet into the ground to provide additional stability. Equipment is securely attached to the pad. Underground distribution lines are placed in conduit but are not typically encased in concrete. Future installations of underground distribution feeders will be evaluated based upon potential exposure to storm surges and flooding. Additional information and conclusions from research performed by the PURC will be included in the evaluation. If it is determined that storm surges could cause excessive damage, the installation may be encased in concrete ducts if feasible and validated by research.

#### **Placement of New and Replacement Facilities:**

Accessible locations are necessary for the efficient and safe installation and maintenance of FPUC facilities. Therefore, facilities are placed along public rights of way or located on private easements that are readily accessible from public streets. Placement of facilities along rear lot lines will not occur except in certain commercial applications were easily accessible concrete or asphalt driveways are located at the rear of the development or in residential neighborhoods with alleyways designed specifically for the purpose of installing utility services behind homes.

#### **Deployment Strategy:**

FPUC has a fully implemented storm hardening strategy. Significant areas of note for 2020 include:

- 1. During 2020, each division complete the fifth year of the second, eight year cycle wood pole inspection program. Specific results are reported in Section I Wood Pole Inspections.
- FPUC continues its Vegetation Management Program that includes trimming main feeders every three years, laterals every six years, and addressing danger trees as soon as possible. Additional information about the FPUC Vegetation Management Program can be found in Section III - Storm Preparedness Initiatives, Initiative #1 - Vegetation Management Program for Distribution Circuits.
- 3. Pole loading inspections and follow up is performed annually in both divisions as part of the Wood Pole Inspection Program. More information about pole loading inspections and follow up can be found in Section I Wood Pole Inspections, and Section III Storm Preparedness Initiatives, Initiative #2 Joint Use Pole Attachment Audit.
- 4. FPUC owned transmission poles are only located in the NE Division. Details about climbing inspections of transmission poles can be found in Section III Storm Preparedness Initiatives, Initiative #3 Six Year Transmission Structure Inspection Program.
- 5. Section III Storm Preparedness Initiatives, Initiative #4 Storm Hardening of Existing Transmission Structures contains additional information about transmission structure storm hardening.
- 6. New underground facilities are designed to mitigate damage from storm surges and flooding.
- 7. FPUC will continue to place facilities on public rights of way and, if this is not possible, will secure private easements to make sure facilities are easily accessible.
- 8. Performed joint use audit during the last quarter of 2016. No audits were scheduled for 2020.

#### **Communities and Areas Affected by Electric Infrastructure Improvements:**

The majority of the items listed in the deployment strategy affect all areas of the FPUC electric service territory. The intent is to make sure both divisions benefit from these strategies. Transmission inspection and transmission storm hardening programs only affect the Northeast Florida Division since there are no FPUC owned transmission facilities in the Northwest Florida Division at this time. Constructing distribution lines to comply with the NESC extreme wind loading standards is beneficial to both divisions and the communities they serve.

#### **Upgrading of Joint Use Facilities**

Both the NE and NW Divisions have continued to replace reject poles. Many of these reject poles have joint use attachments. New replacement poles were designed to accommodate joint use facilities and were installed in accordance with criteria found in the current edition of NESC guidelines for extreme wind loading conditions. The new installations were coordinated with joint users.

## III. Storm Preparedness Initiatives

This is the FPUC required annual update of the ten storm preparedness initiatives.

#### **Initiative #1 - Vegetation Management Programs for Distribution Circuits**

FPUC continues to work towards the accomplishment of a three year vegetation management cycle on main feeders and a six year vegetation management cycle on laterals on the system. FPUC is studying possible changes to its vegetation management cycle to determine if a more efficient and cost saving trim cycle is feasible.

The program includes the following:

- 1. Three year vegetation management cycle on all main feeders.
- 2. Six year vegetation management cycle on all laterals.
- 3. Increased participation with local governments to address improved overall reliability due to tree related outages.
- 4. Information made available to customers regarding the maintenance and placement of trees.

Based upon current tree trimming crew levels, the Company will make reasonable efforts to address the following:

- 1. Annual inspection of main feeders to critical infrastructure prior to the storm season to identify and perform the necessary trimming.
- 2. Address danger trees located outside the normal trim zone and located near main feeders as reported.

<u>Performance Metrics</u>: Adjusted data includes only activities that are budgeted and included in the Company's filed vegetation management plan. Unadjusted (actual) data includes all performance data, such as, hurricane performance and all other vegetation caused outage events FPUC believes to be excludable pursuant to 25-6.0455, F.A.C. The difference between unadjusted data and adjusted data are the storm reliability performance metrics.

In 2020 FPUC initiated a new cycle of its 3 year feeder and 6 year lateral vegetation management program. Data from completed and future cycles will be analyzed to see if there are opportunities for improvements.

#### FPUC Consolidated Vegetation Management Performance Metrics – 2020

|  |             | Feeders     |       |               | Laterals  |          |
|--|-------------|-------------|-------|---------------|-----------|----------|
|  | Unadjusted  | Adjusted    | Diff. | Unadjusted    | Adjusted  | Diff.    |
| (A) Number of Outages                            | 10          | 10          | 0     | 366           | 366       | 0        |
| (B) Customer<br>Interruptions                    | 10,006      | 10,006      | 0     | 13,748        | 13,748    | 0        |
| (C) Miles Cleared                                | 23.11       | 23.11       | 0     | 70.77         | 70.77     | 0        |
| (D) Remaining Miles<br>(Note 1, 2 & 3)           | 133.20      | 133.20      | 0     | 503.80        | 503.80    | 0        |
| (E) Outages per Mile [A÷<br>(C+D)]               | 0.0121      | 0.0121      | 0     | 2.03          | 2.03      | 0.00     |
| (F) Vegetation CI per<br>Mile $[B \div (C + D)]$ | 30.42       | 30.42       | 0     | 50.42         | 50.42     | 0.00     |
| (G) Number of Hotspot<br>trims                   | 50          | 50          | 0     | NA            | NA        | NA       |
| (H) All Vegetation<br>Management Costs           | \$710,720   | \$710,720   | 0     | (Note 4)      | (Note 4)  | (Note 4) |
| (I) Customer Minutes of<br>Interruption          | 746,117     | 746,117     | 0     | 1,158,11<br>3 | 1,158,113 | 0        |
| (J) Outage restoration<br>costs                  | (Note 5)    | (Note 5)    | 0     | NA            | NA        | NA       |
| (K) Vegetation Budget<br>(current year)          | \$1,185,390 | \$1,185,390 | \$-   | NA            | NA        | NA       |
| (L) Vegetation Goal<br>(current year)            | \$1,185,390 | \$1,185,390 | \$-   | NA            | NA        | NA       |
| (M) Vegetation Budget<br>(next year)             | \$1,220,952 | \$1,220,952 | \$-   | NA            | NA        | NA       |
| (N) Vegetation Goal (next year)                  | \$1,220,952 | \$1,220,952 | \$-   | NA            | NA        | NA       |
| (O) Trim-Back Distance                           | (Note 6)    | (Note 6)    | 0     | (Note 6)      | (Note 6)  | NA       |

Danger Trees (FPUC Totals) – Additional Questions

a) Number of danger trees removed 571

b) Expenditures on danger tree removal \$114,200 (Estimated \$200/Tree)

c) Number of request for removals that were denied 0

d) Avoided CI with danger trees removed (estimate) N/A

e) Avoided CMI with danger trees removed (estimate) N/A

Note 1: Miles cleared in 2020 include total miles of main feeders and laterals and hot spot trimming.

Note 2: NE and NW Division uses GIS system to obtain miles of feeders and laterals.

Note 3: Remaining miles negative numbers indicate additional trimming beyond the required 3 and 6 year cycles.

Note 4: Vegetation management costs have not been separated between main feeders and laterals.

Note 5: Outage restoration costs have not been historically documented.

Note 6: Distribution is 10 feet and transmission (138KV is 30 feet and 69KV is 15 feet)

|  |            | Feeders   |       |            | Laterals |          |
|--|------------|-----------|-------|------------|----------|----------|
|  | Unadjusted | Adjusted  | Diff. | Unadjusted | Adjusted | Diff.    |
|  |            |           |       |            |          |          |
|  |            |           |       |            |          |          |
| (A) Number of Outages                            | 3          | 3         | 0     | 88         | 88       | 0        |
| (B) Customer Interruptions                       | 3,409      | 3,409     | 0     | 5,122      | 5,122    | 0        |
| (C) Miles Cleared (Notes 1 & 2)                  | 17.95      | 17.95     | 0     | 15.59      | 15.59    | 0        |
| (D) Remaining Miles<br>(Note 2 & 3)              | 32.46      | 32.46     | 0     | 49.66      | 49.66    | 0        |
| (E) Outages per Mile [A ÷<br>(C + D)]            | 0.0859     | 0.0859    | 0     | 0.6239     | 0.6239   | 0        |
| (F) Vegetation CI per Mile<br>$[B \div (C + D)]$ | 215.72     | 215.72    | 0     | 10.87      | 10.87    | 0        |
| (G) Number of Hotspot                            | 36         | 36        | 0     | NA         | NA       | NA       |
| trims<br>(H) All Vegetation<br>Management Costs  | \$267,242  | \$267,242 | 0     | (Note 4)   | (Note 4) | (Note 4) |
| i(I) Customer Minutes of<br>Interruption         | 319,542    | 319,542   | 0     | 400,618    | 400,618  | 0        |
| (J) Outage restoration costs                     | (Note 5)   | (Note 5)  | NA    | NA         | NA       | NA       |
| (K) Vegetation Budget<br>(current year)          | \$285,390  | \$285,390 | \$-   | NA         | NA       | NA       |
| (L) Vegetation Goal (current year)               | \$285,390  | \$285,390 | \$-   | NA         | NA       | NA       |
| (M) Vegetation Budget<br>(next year)             | \$293,952  | \$293,952 | \$-   | NA         | NA       | NA       |
| (N) Vegetation Goal (next year)                  | \$293,952  | \$293,952 | \$-   | NA         | NA       | NA       |
| (O) Trim-Back Distance                           | (Note 6)   | (Note 6)  | 0     | (Note 6)   | (Note 6) | NA       |

#### **NE Division Vegetation Management Performance Metrics – 2020**

Danger Trees (NE Division) – Additional Questions

a) Number of danger trees removed 8

b) Expenditures on danger tree removal? \$1,600(Estimated \$200/Tree)

c) Number of request for removals that were denied 0

d) Avoided CI with danger trees removed (estimate) N/A

e) Avoided CMI with danger trees removed (estimate) N/A

Note 1: Miles cleared in 2020 include total miles of main feeders and laterals and hot spot trimming.

Note 2: NE Division uses GIS system to obtain miles of feeders and laterals.

Note 3: Remaining miles negative numbers indicate additional trimming beyond the required 3 and 6 year cycles.

Note 4: Vegetation management costs have not been separated between main feeders and laterals.

Note 5: Outage restoration costs have not been historically documented.

Note 6: Distribution is 10 feet and transmission (138KV is 30 feet and 69KV is 15 feet)

|   | F          | eeders    | -     |            | Laterals |       |
|---|------------|-----------|-------|------------|----------|-------|
|   |            |           |       |            |          |       |
|   | Unadjusted | Adjusted  | Diff. | Unadjusted | Adjusted | Diff. |
| (A) Number of Outages                       | 7          | 7         | 0     | 278        | 278      | 0     |
| (B) Customer<br>Interruptions               | 6,597      | 6,597     | 0     | 8,626      | 8,626    | 0     |
| (C) Miles Cleared (note 1<br>& 2)           | 5.16       | 5.16      | 0     | 55.18      | 55.18    | 0     |
| (D) Remaining Miles                         | 100.74     | 100.74    | 0     | 454.14     | 454.14   | 0     |
| (E) Outages per Mile [A ÷<br>(C + D)]       | 0          | 0         | 0     | 3.36       | 3.36     | 0     |
| (F) Vegetation CI per Mile<br>[B ÷ (C + D)] | 0          | 0         | 0     | 87.63      | 87.63    | 0     |
| (G) Number of Hotspot<br>trims              | 14         | 14014     | 0     | NA         | NA       | NA    |
| (H) All Vegetation<br>Management Costs      | \$443,478  | \$443,478 | 0     | (Note 4)   | (Note 4) |       |
| (I) Customer Minutes of<br>Interruption     | 426,575    | 426,575   | 0     | 757,495    | 757,495  | 0     |
| (J) Outage restoration<br>costs             | (Note 5)   | (Note 5)  | NA    | NA         | NA       | NA    |
| (K) Vegetation Budget<br>(current year)     | \$900,000  | \$900,000 | 0     | NA         | NA       | NA    |
| (L) Vegetation Goal<br>(current year)       | \$900,000  | \$900,000 | 0     | NA         | NA       | NA    |
| (M) Vegetation Budget<br>(next year)        | \$927,000  | \$927,000 | 0     | NA         | NA       | NA    |
| (N) Vegetation Goal (next year)             | \$927,000  | \$927,000 | 0     | NA         | NA       | NA    |
| (O) Trim-Back Distance                      | 10         | 10        | NA    | 10         | 10       | NA    |

Danger Trees (NW Division) - Additional Questions

a) Number of danger trees removed 563

b) Expenditures on danger tree removal \$112,600 (Estimated \$200/Tree)

c) Number of request for removals that were denied 0

d) Avoided CI with danger trees removed (estimate) N/A

e) Avoided CMI with danger trees removed (estimate) N/A

Note 1: Miles cleared in 2020 include total miles of main feeders and laterals and hot spot trimming.

Note 2: NW Division uses GIS system to obtain miles of feeders and laterals.

Note 4: Vegetation management costs have not been separated between main feeders and laterals.

Note 5: Outage restoration costs have not been historically documented.

#### NW TREE TRIM SCHEDULE – MAIN FEEDERS 2021 – 2023

- **2021** 1. OCB#9866: Cottondale Feeder
  - 2. OCB#9854: South Street Feeder
  - 3. OCB#9512: Railroad Feeder
  - 4. OCB#9992: HWY 90 East Feeder
  - 5. OCB#9982: College Feeder
  - 6. OCB#9742: Greenwood/Malone Feeder
- **2022** 1. OCB#9972: Blountstown Feeder
  - 2. OCB#9882: Bristol Feeder
  - 3. OCB#9952: Altha Feeder
  - 4. OCB#9872: Hospital Feeder
- 2023 1. OCB#9932: Indian Springs Feeder
  - 2. OCB#9752: Industrial Park Feeder
  - 3. OCB#9922: Dogwood Heights Feeder
  - 4. OCB#9732: Prison Feeder
  - 5. OCB# 9782: HWY 90 West Feeder

#### NW TREE TRIM SCHEDULE – LATERALS 2021 – 2026

- 2021 1. OCB#9982: College Feeder 2. OCB#9942: HWY 90 East Feeder
  - 3. OCB#9512: Railroad Feeder
- **2022** 1. OCB#9782: Family Dollar Feeder 2. OCB#9872: Hospital Feeder
- **2023** 1. OCB#9752: Industrial Park Feeder 2. OCB#9732: Prison Feeder
  - 3. OCB#9782: HWY 90 West Feeder
- 2024 1 OCB#9866: Cottondale Feeder
  2. OCB#9742: Greenwood/Malone Feeder
  3. OCB#9854: South Street Feeder
- **2025** 1. OCB#9972: Blountstown Feeder 2. OCB#9952: Bristol Feeder
- **2026** 1. OCB#9932: Indian Springs Feeder 2. OCB#9722: Dogwood Heights Feeder

#### NE DIVISION - TREE TRIM SCHEDULE – MAIN FEEDERS 2021 – 2023

- **2021** 1. Feeder #211
  - 2. Feeder #313 (69KV)
  - 3. Feeder #201 (69KV)
  - 4. Feeder #315 (69KV)
  - 5. Feeder #202 (69KV)
  - 6. Feeder #212
  - 7. Feeder #310
- **2022** 1. Feeder #311
  - 2. Feeder #104
  - 3. Feeder #210
  - 4. Feeder #215
  - 5. Feeder #214
- **2023** 1. Feeder #802 (138KV)
  - 2. Feeder #803 (138KV)
  - 3. Feeder #209
  - 4. Feeder #102
  - 5. Feeder #110
  - 6. Feeder #111

#### NE DIVISION - TREE TRIM SCHEDULE – LATERALS 2021 – 2026

- **2021** 1. Feeder #214
  - 2. Feeder #102
- **2022** 1. Feeder #209
  - 2. Feeder #104
- 2023 1. Feeder #1102. Feeder #111
- 2024 1. Feeder #2112. Feeder #212
- **2025** 1. Feeder #310 2. Feeder #311
- 2026 1. Feeder #2152. Feeder #210

|              | 20           | 020 FPI      | JC NE [         | Division     | - D&T V       | egetatio      | on Mana       | igement       | *             |               |  |
|--------------|--------------|--------------|-----------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
|              | Main F       | eeder        | Feeder Laterals |              | Main F        | eeder         | Feeder L      | aterals       | TOTALS        |               |  |
| Feeder #     | OH<br>(feet) | UG<br>(feet) | OH<br>(feet)    | UG<br>(feet) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) |  |
| 312          | 5,462        | 11,720       | 1,527           | 33,986       | 1.03          | 2.22          | 0.29          | 6.44          | 1.32          | 8.66          |  |
| 311          | 27,672       | 260          | 45,890          | 102,709      | 5.24          | 0.05          | 8.69          | 19.45         | 13.93         | 19.50         |  |
| 310          | 16,080       | 1,485        | 21,294          | 17,633       | 3.05          | 0.28          | 4.03          | 3.34          | 7.08          | 3.62          |  |
| 209          | 25,423       | 1,062        | 21,303          | 39,035       | 4.81          | 0.20          | 4.03          | 7.39          | 8.85          | 7.59          |  |
| 210          | 9,990        | 2,245        | 19,679          | 5,170        | 1.89          | 0.43          | 3.73          | 0.98          | 5.62          | 1.40          |  |
| 211          | 13,992       | 225          | 60,971          | 28,251       | 2.65          | 0.04          | 11.55         | 5.35          | 14.20         | 5.39          |  |
| 212          | 17,477       | 110          | 62,191          | 11,232       | 3.31          | 0.02          | 11.78         | 2.13          | 15.09         | 2.15          |  |
| 214          | 14,935       | 305          | 25,475          | 4,518        | 2.83          | 0.06          | 4.82          | 0.86          | 7.65          | 0.91          |  |
| 215          | 11,264       | 1,250        | 33,600          | 71,663       | 2.13          | 0.24          | 6.36          | 13.57         | 8.50          | 13.81         |  |
| 102          | 19,249       | 2,207        | 35,222          | 117,110      | 3.65          | 0.42          | 6.67          | 22.18         | 10.32         | 22.60         |  |
| 104          | 1,344        | 6,799        | 895             | 51,015       | 0.25          | 1.29          | 0.17          | 9.66          | 0.42          | 10.95         |  |
| 110          | 10,292       | 0            | 7,537           | 148,104      | 1.95          | 0.00          | 1.43          | 28.05         | 3.38          | 28.05         |  |
| 111          | 10,354       | 6,020        | 8,954           | 93,027       | 1.96          | 1.14          | 1.70          | 17.62         | 3.66          | 18.76         |  |
| Dist. Totals | 183,534      | 33,688       | 344,537         | 723,452      | 34.76         | 6.38          | 65.25         | 137.02        | 100.01        | 143.40        |  |
| 69 KV Line   |              |              |                 |              |               |               |               |               | 12.05         |               |  |
| 138 KV Line  |              |              |                 |              |               |               |               |               | 3.60          |               |  |
| D&T Totals   | 183,534      | 33,688       | 344,537         | 723,452      | 34.76         | 6.38          | 65.25         | 137.02        | 115.66        | 143.40        |  |

\*Basis for tracking and managing 2020 and future tree trimming cycles (3yr. Mains and 6yr Laterals) - Data Source is GIS mapping System

Updated 4/29/2020

|              | Main Feeder  |              | Feeder Laterals |              | Main          | Feeder        | Feeder L      | aterals       | TOTALS        |               |  |
|--------------|--------------|--------------|-----------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| Feeder #     | OH<br>(feet) | UG<br>(feet) | OH<br>(feet)    | UG<br>(feet) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) |  |
| 311          | 12,790       | 0            | 6,555           | 0            | 2.42          | 0.00          | 1.24          | 0.00          | 3.66          | 0.00          |  |
| 310          | 6,290        | 0            | 600             | 0            | 1.19          | 0.00          | 0.11          | 0.00          | 1.30          | 0.00          |  |
| 209          | 6,905        | 0            | 13,685          | 0            | 1.31          | 0.00          | 2.59          | 0.00          | 3.90          | 0.00          |  |
| 210          | 5,425        | 0            | 0               | 0            | 1.03          | 0.00          | 0.00          | 0.00          | 1.03          | 0.00          |  |
| 211          | 4,130        | 0            | 4,964           | 0            | 0.78          | 0.00          | 0.94          | 0.00          | 1.72          | 0.00          |  |
| 212          | 22,171       | 0            | 2,039           | 0            | 4.20          | 0.00          | 0.39          | 0.00          | 4.59          | 0.00          |  |
| 214          | 4,220        | 0            | 6,035           | 0            | 0.80          | 0.00          | 1.14          | 0.00          | 1.94          | 0.00          |  |
| 215          | 2,250        | 0            | 6,600           | 0            | 0.43          | 0.00          | 1.25          | 0.00          | 1.68          | 0.00          |  |
| 102          | 23,348       | 0            | 23,032          | 0            | 4.42          | 0.00          | 4.36          | 0.00          | 8.78          | 0.00          |  |
| 104          | 0            | 0            | 1,295           | 0            | 0.00          | 0.00          | 0.25          | 0.00          | 0.25          | 0.00          |  |
| 110          | 0            | 0            | 10,140          | 0            | 0.00          | 0.00          | 1.92          | 0.00          | 1.92          | 0.00          |  |
| 111          | 7,265        | 0            | 7,385           | 0            | 1.38          | 0.00          | 1.40          | 0.00          | 2.77          | 0.0           |  |
| Dist. Totals | 94,794       | 0            | 82,330          | 0            | 17.95         | 0.00          | 15.59         | 0.00          | 33.55         | 0.0           |  |
| 69 KV Line   | 7,217        | Feet         |                 |              | 1.37          | Miles         |               |               |               |               |  |
| 138 KV Line  | 0            | Feet         |                 |              | 0.00          | Miles         |               |               |               |               |  |

\*\*2020 Trim Totals

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|                       | 2020 FI      | PUC N\       | N Divisio | on - D&      | T Veget       | ation M       | anagem        | ient*         |               |               |
|-----------------------|--------------|--------------|-----------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                       | Main F       | eeder        | Feeder L  | aterals      | Main          | Feeder        | Feeder        | Laterals      | тот           | ALS           |
| Feeder #              | OH<br>(feet) | UG<br>(feet) | OH (feet) | UG<br>(feet) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) |
| 9942 Hwy 90E          | 41,919       | 0            | 53,165    | 9,115        | 7.94          | 0.00          | 10.07         | 1.73          | 18.01         | 1.73          |
| 9992 Hwy 90W          | 22,492       | 0            | 48,745    | 2,881        | 4.26          | 0.00          | 9.23          | 0.55          | 13.49         | 0.55          |
| 9952 Altha            | 16,950       | 0            | 15,728    | 19,940       | 3.21          | 0.00          | 2.98          | 3.78          | 6.19          | 3.78          |
| 9972 Blountstown      | 35,842       | 0            | 281,486   | 9,105        | 6.79          | 0.00          | 53.31         | 1.72          | 60.10         | 1.72          |
| 9882 Bristol          | 18,616       | 0            | 3,629     | 1,229        | 3.53          | 0.00          | 0.69          | 0.23          | 4.21          | 0.23          |
| 9982 College          | 13,609       | 0            | 6,866     | 3,258        | 2.58          | 0.00          | 1.30          | 0.62          | 3.88          | 0.62          |
| 9866 Cottondale       | 38,708       | 0            | 528,101   | 26,737       | 7.33          | 0.00          | 100.02        | 5.06          | 107.35        | 5.06          |
| 9722 Dogwood Heights  | 61,890       | 0            | 357,629   | 11,578       | 11.72         | 0.00          | 67.73         | 2.19          | 79.45         | 2.19          |
| 9872 Hospital         | 16,275       | 365          | 192,659   | 2,373        | 3.08          | 0.07          | 36.49         | 0.45          | 39.57         | 0.52          |
| 9932 Indian Springs   | 60,005       | 0            | 224,757   | 8,257        | 11.36         | 0.00          | 42.57         | 1.56          | 53.93         | 1.56          |
| 9742 Greenwood/Malone | 30,117       | 181          | 140,969   | 42,920       | 5.70          | 0.03          | 26.70         | 8.13          | 32.40         | 8.16          |
| 9512 Railroad         | 59,479       | 0            | 120,913   | 21,056       | 11.26         | 0.00          | 22.90         | 3.99          | 34.17         | 3.99          |
| 9854 South St         | 24,266       | 0            | 399,237   | 13,934       | 4.60          | 0.00          | 75.61         | 2.64          | 80.21         | 2.64          |
| 9872 Family Dollar    | 32,921       | 0            | 40,566    | 2,275        | 6.24          | 0.00          | 7.68          | 0.43          | 13.92         | 0.43          |
| 9732 Prison           | 70,950       | 0            | 207,635   | 41,701       | 13.44         | 0.00          | 39.32         | 7.90          | 52.76         | 7.90          |
| 9752 Industrial Pk    | 15,096       | 0            | 67,136    | 2,708        | 2.86          | 0.00          | 12.72         | 0.51          | 15.57         | 0.51          |
| Dist. Totals          | 559,135      | 546          | 2,689,220 | 219,068      | 105.90        | 0.10          | 509.32        | 41.49         | 615.22        | 41.59         |

\*Basis for tracking and managing 2020 and future trim cycles (3YR Mains & 6YR Laterals) - Data Source is GIS Mapping Updated 4/29/2020

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|                | 202          | 0 FPUC       | CNW D           | ivision      | - D&T Ve      | egetatio      | n Manag       | gement*       | < <b>*</b>    |               |
|----------------|--------------|--------------|-----------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                | Main F       | eeder        | Feeder Laterals |              | Main F        | eeder         | Feeder I      | Laterals      | тот           | ALS           |
| Feeder #       | OH<br>(feet) | UG<br>(feet) | OH<br>(feet)    | UG<br>(feet) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) |
| 90E            | 0            | 0            | 4,820           | 0            | 0.00          | 0.00          | 0.91          | 0.00          | 0.91          | 0.00          |
| 90W            | 482          | 0            | 6,748           | 0            | 0.09          | 0.00          | 1.28          | 0.00          | 1.37          | 0.00          |
| Altha          | 482          | 0            | 4,579           | 0            | 0.09          | 0.00          | 0.87          | 0.00          | 0.96          | 0.00          |
| Blountstown    | 3,856        | 0            | 1,687           | 0            | 0.73          | 0.00          | 0.32          | 0.00          | 1.05          | 0.00          |
| Bristol        | 0            | 0            | 5,784           | 0            | 0.00          | 0.00          | 1.10          | 0.00          | 1.10          | 0.00          |
| College        | 241          | 0            | 8,194           | 0            | 0.05          | 0.00          | 1.55          | 0.00          | 1.60          | 0.00          |
| Cottondale     | 1,928        | 0            | 29,884          | 0            | 0.37          | 0.00          | 5.66          | 0.00          | 6.03          | 0.00          |
| Dogwood        | 0            | 0            | 5,784           | 0            | 0.00          | 0.00          | 1.10          | 0.00          | 1.10          | 0.00          |
| Hospital       | 0            | 0            | 38,560          | 0            | 0.00          | 0.00          | 7.30          | 0.00          | 7.30          | 0.00          |
| Indian Springs | 723          | 0            | 5,302           | 0            | 0.14          | 0.00          | 1.00          | 0.00          | 1.14          | 0.00          |
| Malone         | 15,665       | 0            | 148,697         | 0            | 2.97          | 0.00          | 28.16         | 0.00          | 31.13         | 0.00          |
| Railroad       | 0            | 0            | 7,471           | 0            | 0.00          | 0.00          | 1.41          | 0.00          | 1.41          | 0.00          |
| South St       | 1,205        | 0            | 23,859          | 0            | 0.23          | 0.00          | 4.52          | 0.00          | 4.75          | 0.00          |
| Family Dollar  | 964          | 0            | 0               | 0            | 0.18          | 0.00          | 0.00          | 0.00          | 0.18          | 0.00          |
| Prison         | 964          | 0            | 0               | 0            | 0.18          | 0.00          | 0.00          | 0.00          | 0.18          | 0.00          |
| Industrial Pk  | 723          | 0            | 0               | 0            | 0.14          | 0.00          | 0.00          | 0.00          | 0.14          | 0.00          |
| Dist. Totals   | 27,233       | 0            | 291,369         | 0            | 5.16          | 0.00          | 55.18         | 0.00          | 60.34         | 0.00          |

\*\*2020 Trim Totals

## 2020 - FPUC Feeder Specific Data for Attached Laterals (Vegetation Related)

| Feeder               | Division | Feeder | Main F        | eeder         | Feeder L      | _aterals      | тот           | ALS           | Feeder<br>Lateral<br>Cl | Feeder<br>Lateral<br>CMI | Feeder<br>Circuit<br>Looped? | Feeder<br>Events<br>N |
|----------------------|----------|--------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------------|--------------------------|------------------------------|-----------------------|
|                      | Division | Туре   | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) | OH<br>(miles) | UG<br>(miles) |                         |                          |                              |                       |
| 102 SOUTH FLETCHER   | NE       | Hybrid | 3.65          | 0.42          | 6.67          | 22.18         | 10.32         | 22.60         | 2,243                   | 77,660                   | Yes                          | 18                    |
| 104 PARKWAY SOUTH    | NE       | Hybrid | 0.25          | 1.29          | 0.17          | 9.66          | 0.42          | 10.95         | 131                     | 131                      | Yes                          | 1                     |
| 209 FIFTEENTH STREET | NE       | Hybrid | 4.81          | 0.20          | 4.03          | 7.39          | 8.85          | 7.59          | 114                     | 343                      | Yes                          | 1                     |
| 210 NECTARINE        | NE       | Hybrid | 1.89          | 0.43          | 3.73          | 0.98          | 5.62          | 1.40          | 362                     | 8,502                    | Yes                          | 3                     |
| 211 JASMINE STREET   | NE       | Hybrid | 2.65          | 0.04          | 11.55         | 5.35          | 14.20         | 5.39          | 1,703                   | 323,688                  | Yes                          | 19                    |
| 212 ELEVENTH STREET  | NE       | Hybrid | 3.31          | 0.02          | 11.78         | 2.13          | 15.09         | 2.15          | 1,270                   | 133,755                  | Yes                          | 13                    |
| 214 CLINCH DRIVE     | NE       | Hybrid | 2.83          | 0.06          | 4.82          | 0.86          | 7.65          | 0.91          | 708                     | 57,642                   | Yes                          | 11                    |
| 215 SADLER NECTARIN  | NE       | Hybrid | 2.13          | 0.24          | 6.36          | 13.57         | 8.50          | 13.81         | 158                     | 8,539                    | Yes                          | 2                     |
| 310 BONNIEVIEW       | NE       | Hybrid | 3.05          | 0.28          | 4.03          | 3.34          | 7.08          | 3.62          | 559                     | 2,734                    | Yes                          | 10                    |
| 311 BAILEY           | NE       | Hybrid | 5.24          | 0.05          | 8.69          | 19.45         | 13.93         | 19.50         | 879                     | 74,061                   | Yes                          | 12                    |
| 312 AMELIA ISLAND P  | NE       | Hybrid | 1.03          | 2.22          | 0.29          | 6.44          | 1.32          | 8.66          | 188                     | 33,106                   | Yes                          | 1                     |
| 9952 ALTHA           | NE       | Hybrid | 3.21          | 0.00          | 2.98          | 3.78          | 6.19          | 3.78          | 2,435                   | 138,295                  | No                           | 25                    |
| 9972 BLOUNTSTOWN     | NE       | Hybrid | 6.79          | 0.00          | 53.31         | 1.72          | 60.10         | 1.72          | 224                     | 224                      | Yes                          | 2                     |
| 9882 BRISTOL         | NW       | Hybrid | 3.53          | 0.00          | 0.69          | 0.23          | 4.21          | 0.23          | 1,907                   | 148,226                  | No                           | 18                    |
| 9982 COLLEGE         | NW       | Hybrid | 2.58          | 0.00          | 1.30          | 0.62          | 3.88          | 0.62          | 2,493                   | 115,612                  | Yes                          | 33                    |
| 9866 COTTONDALE      | NW       | Hybrid | 7.33          | 0.00          | 100.02        | 5.06          | 107.35        | 5.06          | 3,615                   | 150,901                  | No                           | 41                    |
| 9722 DOGWOOD HT      | NW       | Hybrid | 11.72         | 0.00          | 67.73         | 2.19          | 79.45         | 2.19          | 811                     | 8,560                    | Yes                          | 7                     |
| 9742 GREENWOOD       | NW       | Hybrid | 5.70          | 0.03          | 26.70         | 8.13          | 32.40         | 8.16          | 2,542                   | 243,537                  | No                           | 27                    |
| 9872 HOSPITAL        | NW       | Hybrid | 3.08          | 0.07          | 36.49         | 0.45          | 39.57         | 0.52          | 1,948                   | 63,377                   | Yes                          | 23                    |
| 9942 HWY 90E         | NW       | Hybrid | 7.94          | 0.00          | 10.07         | 1.73          | 18.01         | 1.73          | 1,785                   | 50,908                   | No                           | 20                    |
| 9992 HWY 90W         | NW       | Hybrid | 4.26          | 0.00          | 9.23          | 0.55          | 13.49         | 0.55          | 556                     | 4,422                    | Yes                          | 9                     |
| 9932 INDIAN SPR      | NW       | Hybrid | 11.36         | 0.00          | 42.57         | 1.56          | 53.93         | 1.56          | 2,239                   | 153,468                  | No                           | 24                    |
| 9752 INDUSTRIAL PARK | NW       | Hybrid | 2.86          | 0.00          | 12.72         | 0.51          | 15.57         | 0.51          | 59                      | 59                       | Yes                          | 1                     |
| 9732 PRISON          | NW       | Hybrid | 13.44         | 0.00          | 39.32         | 7.90          | 52.76         | 7.90          | 174                     | 2,820                    | No                           | 3                     |
| 9512 RAILROAD        | NW       | Hybrid | 11.26         | 0.00          | 22.90         | 3.99          | 34.17         | 3.99          | 884                     | 10,657                   | Yes                          | 7                     |
| 9854 SOUTH ST        | NW       | Hybrid | 4.60          | 0.00          | 75.61         | 2.64          | 80.21         | 2.64          | 4,147                   | 93,004                   | Yes                          | 45                    |
| TOTALS               |          |        | 130.50        | 5.35          | 563.76        | 132.41        | 694.27        | 137.74        | 34,136                  | 1,904,230                |                              | 376                   |

#### **Initiative #2 – Joint Use Pole Attachment Audit**

FPUC has joint use agreements with multiple telecommunication and cable television providers. Some of the current agreements need additional language to add or clarify joint use audit and safety inspection instructions. Both CATV and Telco agreements were rewritten during 2014 to standardize language and to include clearly defined requirements for joint use pole attachment audits and safety inspections. During December 2014, new agreements were mailed to the CATV companies. Telco agreements expired on 12/31/2015 and had a requirement of 12 month advance notice of intent to terminate and replace the agreements. The Telco termination notices were delivered during December 2014. To establish pole ownership, both the new CATV and Telco agreements make provision for an initial joint use pole attachment audit to take place within 12 months of the effective date, upon request of the owner or licensee, and on a five year recurring cycle after the first audit. In addition, the CATV agreements make provision, at the sole discretion of the owner, for a joint safety inspection to take place subsequent to the inventory audit within 2 years of the agreement effective date, and recurring inspections on a five year cycle following the initial safety inspection. The agreements are subject to negotiation and the terms and timing are subject to change.

Currently Southern Light, Fairpoint Communications, Crown Castle and Spectra Network agreements have been executed. AT&T has elected to stay with the current agreement and focus on a negotiated amendment. Joint use agreement negotiations are ongoing, and in varying stages of completion with CenturyLink. The Comcast Agreement was completed in 2020.

FPUC completed the joint use pole attachment audit during the last quarter of 2016. The next joint use audit should take place in 2022. The current pole count for each joint user is shown in the table below. Attachment counts are from the 2016 audit.

| Joint Use Attacher | # of Poles Attached to FPU | # of Poles FPU Attached |
|--------------------|----------------------------|-------------------------|
| AT&T               | 3,139                      | 496                     |
| Spectra            | 952                        | 0                       |
| Century Link       | 2,347                      | 5                       |
| Comcast NE         | 3,565                      | 0                       |
| Comcast NW         | 9,003                      | 0                       |
| Crown Castle       | 47                         | 0                       |
| Fairpoint          | 253                        | 12                      |
| Southern Light     | 363                        | 0                       |

#### **Initiative #3 – Six Year Transmission Structure Inspection Program**

Transmission inspections will be completed on all transmission facilities and will include climbing patrols of the 138 KV and 69 KV transmission lines owned by FPUC. This inspection will ensure that all structures have a detailed inspection performed at a minimum of every six years. The inspection will include fifty (50) 138 KV structures and two hundred seventeen (217) 69 KV structures. The inspections will ensure that all transmission towers and other transmission line supporting equipment such as insulators, guying, grounding, conductor splicing, cross-braces, cross-arms, bolts, etc. structurally sound and firmly attached. In addition to the six year climbing inspections mentioned above, wood transmission poles are also included in the 8 year wood pole ground-line condition inspection and treatment program.

Substation equipment will also be inspected annually to document the integrity of the facility and identify any deficiencies that require action. Substations will be inspected to ensure that all structures, buss work, insulators, grounding, bracing, bolts, etc. are structurally sound and firmly attached.

|   | Acti         |              | <b>^ •</b>      | t Budget        |              | t Year          |
|---|--------------|--------------|-----------------|-----------------|--------------|-----------------|
|   | Goal         | Actual       | Budget          | Actual          | Goal         | Budget          |
| (A) Total transmission circuits.  | <u>15.05</u> | <u>15.05</u> | <u>\$17,000</u> | \$17,000        | 15.05        | \$17,000        |
| (B) Planned transmission circuit inspections *                                    | <u>15.05</u> | <u>0</u>     | <u>\$17,000</u> | <u>\$0</u>      | <u>15.05</u> | <u>\$17,000</u> |
| (C) Completed transmission circuit * **<br>inspections.                           | <u>15.05</u> | <u>15.05</u> | <u>\$17,000</u> | <u>\$17,000</u> | <u>15.05</u> | <u>\$1,7000</u> |
| (D) Percent of transmission circuit inspections<br>completed. *                   | <u>100%</u>  | <u>100%</u>  | <u>NA</u>       | <u>NA</u>       | <u>100%</u>  | <u>NA</u>       |
| (E) Planned transmission substation inspections                                   | <u>4</u>     | <u>4</u>     | <u>NA</u>       | <u>NA</u>       | <u>4</u>     | NA              |
| (F) Completed transmission substation * inspections.                              | <u>4</u>     | <u>4</u>     | <u>NA</u>       | <u>NA</u>       | <u>4</u>     | <u>NA</u>       |
| (G) Percent transmission substation inspections completed.*                       | <u>100%</u>  | <u>100%</u>  | <u>NA</u>       | <u>NA</u>       | <u>100%</u>  | <u>NA</u>       |
| (H) Planned transmission equipment inspections (other equipment).                 | NA           | NA           | <u>NA</u>       | <u>NA</u>       | <u>NA</u>    | <u>NA</u>       |
| (I) Completed transmission equipment inspections (other equipment).               | NA           | <u>NA</u>    | <u>NA</u>       | <u>NA</u>       | <u>NA</u>    | <u>NA</u>       |
| (J) Percent of transmission equipment<br>inspections completed (other equipment). | <u>NA</u>    | <u>NA</u>    | <u>NA</u>       | <u>NA</u>       | <u>NA</u>    | <u>NA</u>       |

Transmission Circuit, Substation and Other Equipment Inspections

\* Inspections performed were visual.

\*\* Latest 6 yr. Detailed inspection completed in late 2018.

#### Transmission Tower Structure Inspections

|  | · · · · · · · · · · · · · · · · · · · |           | Current   | Budget**  | Next Year   |           |
|--|---------------------------------------|-----------|-----------|-----------|-------------|-----------|
|  |                                       |           | Budget    | Actual    | Goal        | Budget    |
| (A) Total transmission tower structures.                           | 4                                     | 4         | NA        | NA        | 4           | NA        |
| (B) Planned transmission tower structure<br>Inspections *          | <u>4</u>                              | 0         | <u>NA</u> | <u>NA</u> | <u>4</u>    | <u>NA</u> |
| (C) Completed transmission tower structure inspections. *          | <u>4</u>                              | 0         | <u>NA</u> | <u>NA</u> | <u>4</u>    | <u>NA</u> |
| (D) Percent of transmission tower structure inspections completed. | <u>100%</u>                           | <u>0%</u> | <u>NA</u> | <u>NA</u> | <u>100%</u> | <u>NA</u> |

\* Latest 6 yr. Detailed inspection completed in late 2018. \*\* Current accounting system does not provide data to this level

|   | Activity  |           | Current Budget |           | Next Year |              |
|---|-----------|-----------|----------------|-----------|-----------|--------------|
|   | Goal      | Actual    | Budget         | Actual    | Goal      | Budget       |
| (A) Total number of transmission poles. * **                            | 263       | 263       | <u>NA</u>      | NA        | 263       | <u>NA***</u> |
| (B) Number of transmission poles strength tested.                       | NA        | NA        | NA             | NA        | NA        | <u>NA</u>    |
| (C) Number of transmission poles passing strength test.                 | <u>NA</u> | <u>NA</u> | <u>NA</u>      | <u>NA</u> | <u>NA</u> | <u>NA</u>    |
| (D) Number of transmission poles failing strength test (overloaded).    | <u>NA</u> | <u>NA</u> | <u>NA</u>      | <u>NA</u> | <u>NA</u> | <u>NA</u>    |
| (E) Number of transmission poles failing strength test (other reasons). | <u>NA</u> | <u>NA</u> | <u>NA</u>      | <u>NA</u> | <u>NA</u> | <u>NA</u>    |
| (F) Number of transmission poles corrected (strength failure).          | <u>NA</u> | <u>NA</u> | <u>NA</u>      | <u>NA</u> | <u>NA</u> | <u>NA</u>    |
| (G) Number of transmission poles corrected (other reasons).             | <u>NA</u> | <u>NA</u> | <u>NA</u>      | <u>NA</u> | <u>NA</u> | <u>NA</u>    |
| (H) Total transmission poles replaced.                                  | <u>NA</u> | <u>NA</u> | NA             | <u>NA</u> | NA        | NA           |

#### Transmission Pole Inspections

\*FPUC includes wood transmission poles in the eight year ground-line condition inspection and treatment program.

\*\* 6 yr. Detailed inspection was completed in 2018 \*\*\* Current budget is included in the table above

#### **Initiative #4 – Storm Hardening of Existing Transmission Structures**

NE Division's 138 KV transmission system was constructed using concrete poles, steel poles, and steel towers. The construction generally complies with storm hardening requirements. The structures will continue to be inspected as outlined in Initiative #3 - Six Year Transmission Structure Inspection Program - to ensure the integrity of the system. The latest detailed inspection was completed in December, 2018.

The 69 KV transmission system consists of a total of 217 poles of which 105 are concrete, seven are wood span guys and 105 are wood structures. All installations met the NESC code requirements in effect at the time of construction. A policy of replacing existing wood poles with concrete structures has been in place for some time. This policy requires that when it becomes necessary to replace a wood pole, due to construction requirements or concerns with the integrity of the pole, a concrete pole that meets current NESC codes and storm hardening requirements will be utilized.

NW Division currently has no transmission structures.

|  | 2020 Activity |        | 2020 Budg   | get           | 2021 Next Year |             |  |
|--|---------------|--------|-------------|---------------|----------------|-------------|--|
|  | Goal          | Actual | Budget      | Budget Actual |                | Budget      |  |
| (A)Transmission structures scheduled for hardening.            | 19            | 0      | \$1,000,000 | \$0           | 8              | \$1,450,000 |  |
| (B) Transmission<br>structures hardening<br>completed.         | 0             | 0      | 0           | 0             | 8              | 8           |  |
| (C) Percent transmission<br>structures hardening<br>completed. | 50%           | 48%    | 50%         | 48%           | 52%            | 52%         |  |

Hardening of Existing Transmission Structures

#### **Initiative #5 – Geographic Information System**

FPUC utilizes GIS mapping for both divisions. The systems are ESRI based using ArcGIS to identify the distribution and/or transmission facilities overlaid on a GIS land base. The systems locate the facilities on the land base and allow the users to enter data updates for all existing or new physical assets within the system. The system has proven to be a reliable and valuable tool for the engineering of new construction or existing system maintenance projects.

The system also interfaces with the Customer Information System to function as a Customer Outage Management System (OMS). Implementation of the OMS has resulted in significant improvement in data collection and retrieval capability for analyzing and reporting reliability indices.

The GIS is being used as an integral part of the data collection for many of the programs mentioned in this update. The information, now available in the GIS, is instrumental in conducting pole inspections and joint use audits. In addition, the OMS will serve as a valuable tool for use in post storm forensic analysis.

In 2013 FPUC completed the upgrade and installation of a new GIS mapping system which has integrated multiple utility systems (gas, electric, propane, etc.) into one system. The migration of data began in 2012 and was completed by the end of 2013. In addition, a new and improved version of the OMS system was also installed in 2013. In 2014 FPU began using the new OMS which provided several enhancements that have proven to be beneficial for managing outages. A key feature of the new OMS is the automatic notification of outages to mangers, supervisors and employees via text and/or email.

During 2016 FPUC successfully implemented an OMS enhancement which enabled dispatching of outages directly to the crews via an IPad application.

During 2018 FPUC successfully implemented an OMS enhancement which enabled customers to leave a voice message containing further information that is beneficial for managing outages. In addition, FPUC implemented automatic logging of customer outage calls into the OMS via IVR.

During 2019 FPUC successfully implemented an OMS enhancement which granted managers, supervisors, and directors access to an electric outage webpage to view outages in real-time via smart phone.

During 2020 FPUC successfully implemented an OMS Damage Assessment Module which allows crews to capture infrastructure damage during named storms or other major disasters. This module is available to crews on mobile devices. In addition, FPUC successfully implemented a customer interphase via our website which allows customers to enter outages, see outage map information and number of total customers affected.

In 2020 FPUC made available GIS map information to employees on mobile devices.

#### **Initiative #6 - Post-Storm Data Collection and Forensic Analysis**

FPUC has established a forensics oversight team to coordinate communications, schedule data collection activities, and final reporting requirements. Our plans are to utilize internal resources, outside consultants or teams from Southeastern Electric Exchange (SEE) Members to collect, analyze, and report on field data collected which will be entered into the FPUC Outage Management System (OMS). FPUC will utilize reporting forms for submitting forensic data to the FPSC.

The following is the latest version of the FPUC "FORENSIC DATA COLLECTION AND REPORTING" procedure:

#### FORENSIC DATA COLLECTION AND REPORTING

#### **PURPOSE:**

To set standards and responsibilities for the collection, assessment, and reporting of storm related damage to FPUC transmission, substation, and distribution structures and equipment. To accomplish these tasks in an orderly manner, safely, and with a minimum of interference with the process of system restoration following a storm.

#### **PROCESS:**

A minimum of 72 hours prior to the storm; FPU will initiate the forensic process by alerting team members both in-house and external of the impending event. All contact information will be verified for accuracy and all equipment will be checked to make sure it is in good working order.

48 hours prior to the storm; begin the process of accessing where the storm is most likely to strike and determine the best locations for forensic teams. Inform team members of more specific information as it becomes available.

24 hours prior to the storm; notify all team members of actual crew personnel, mobilization plan, safety procedures, and reporting instructions.

After the storm; perform a forensic investigation at each location or a representative sample of locations encountered that meets reportable criteria. Damage locations to include, but are not limited to poles, wires, cross arms, insulators, transformers, reclosers, capacitor banks, cutouts, any other equipment that is damaged or has caused a customer outage.

Damage areas will be determined and teams dispatched utilizing FPU's outage management system, reports from customers, and reports from restoration crews.

#### **RESPONSIBILITIES:**

An FPUC Forensic Team Leader will be assigned and will be responsible for managing the overall forensic effort. This will include tracking storm progress, selecting areas to be surveyed, coordinating team deployment, and communications with local Operations Centers, review findings and generating final reports.

Florida Public Utilities Company will utilize Internal Employees, Outside Consultants or Southeastern Electric Exchange (SEE) Member Teams to provide forensic investigative teams that will be responsible for safely collecting information on storm damage. Damaged facilities are defined as broken poles, leaning poles, broken or downed wires, damaged line equipment, and any other incident that has caused a customer outage.

#### **REPORTING:**

All post storm forensic data collected will be entered in standard forms. The form allows both overhead and underground damage to be entered and data must be entered separately for each incident. Pictures of damages from multiple views will be taken and included for clarity and additional assessment. The form utilized for the data collection is shown below.

| FPU Post-Storm Forensics Data Collection Sheet  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| Date of Data Gathering  |  |  |  |  |  |  |  |
| Storm Information         A. Storm Name         B. Wind Information         1 predominant direction         2 intensity         3 tornadoes (Y/N)         C. Rain         1 Amount (inches)         2 Duration (hours)         D. Storm         1 Speed (mph)         2 Wind field  |  |  |  |  |  |  |  |
| Location Information         A. Geographic Location of Observation (GIS) / Equipment ID #         B. Soil Type         C. Surface Grade         D. Topology (ditch, hill, etc.)         E. Flood zone? (Y/N)         F. Exposure level (coastal, suburban, inner city, urban, rural)         G. Attach pictures, video? (Y/N)         H. Debris in area (describe)         I. Tree Density (light, medium, heavy) |  |  |  |  |  |  |  |
| Overhead Facilities Information   |  |  |  |  |  |  |  |
| <ul> <li>A. What was the object that failed? (check all that apply)</li> <li>1 Cross arm?</li> <li>2 Pole?</li> <li>3 Span/line?</li> <li>B. Observed cause of failure (check one)</li> </ul>   |  |  |  |  |  |  |  |
| 1     Debris       2     Tree       3     Wind only       4     Cascade       C.     Pole Information   |  |  |  |  |  |  |  |
| 1 Attributes         a. Is the pole a primary feeder? Lateral? (check one)         1) Primary Feeder         2) Lateral         b. Types of trusses (describe)  |  |  |  |  |  |  |  |
| c. Owner (name) d. Contruction Type of pole (check one) 1) Tangent 2) Angle 3) Right angle 4) Dead end  |  |  |  |  |  |  |  |

| 2 | 2 Pre-wind condition                        |          |
|---|---|----------|
|   | a. Wind grade                               |          |
|   | b. Class                                    |          |
|   | c. Height (feet)                            |          |
|   | d. Birth Year                               |          |
|   | e. Type of pole (CCA, Penta, Creasote)      |          |
|   | f. Span length (approximate, in feet)       |          |
|   | g. Decay or deterioration? (Y/N)            |          |
|   | 1) Circumference at decay (inches)          |          |
|   | h. Last inspected                           |          |
|   | 1) Year                                     |          |
|   | 2) Receive treatment? (butt wrap, chemical, | unknown) |
|   | i. Braced? (Y/N)                            |          |
|   | j. Guyed? (Y/N)                             |          |
| 3 | 3 Break? (Y/N)                              |          |
|   | a. Height measurement at break (check one)  |          |
|   | 1) Lower 1/3                                |          |
|   | 2) Middle 1/3                               |          |
|   | 3) Upper 1/3                                |          |
|   | b. Circumference at break (inches)          |          |
|   | c. Break at foreign attachments? (Y/N)      |          |
|   | d. Break at own attachments? (Y/N)          |          |
|   | e. Direction of break                       |          |
| 4 | 4 Is pole leaning? (Y/N)                    |          |
|   | a. Direction                                |          |
|   | b. Angle from vertical                      |          |
| 5 | 5 Own conductors                            | _        |
|   | a. Number primary                           |          |
|   | b. Number secondary                         |          |
|   | c. Horizontal or vertical (H/V)             |          |
| 6 | 6 Attached equipment                        |          |
|   | a. Transformer (Y/N)                        |          |
|   | b. Arrestor (Y/N)                           |          |
|   | c. Cap bank (Y/N)                           |          |
|   | d. Disconnect (Y/N)<br>e. Re-closer (Y/N)   |          |
|   | f. Fuse (Y/N)                               |          |
|   |   |          |
|   | g. Regulator (Y/N)<br>h. Other (describe)   |          |
| 7 | 7 Per third party attachment                |          |
|   | a. Owner (name)                             |          |
|   | b. Type (coax, telephone, fiber, antenna)   |          |
|   | c. Number of cables                         |          |
|   | d. Size (diameter in inches)                |          |
|   | e. Location on pole (height in feet)        |          |
|   | f. Guiding (Y/N)                            |          |
|   | g. Authorized or unauthorized?              |          |
|   | h. Over-lashed? (Y/N)                       |          |
| 8 | 8 Cascade                                   |          |
|   | a. Is this an endpoint? (Y/N)               |          |
|   | b. What started cascade? (describe)         |          |
|   | c. What stopped cascade? (describe)         |          |
|   | d. Direction of lean/down?                  |          |
|   | e. Type of guiding (describe)               |          |
| 9 | 9 What wasn't damaged? (describe)           |          |
|   |   |          |
|   |   |          |

|   | Undergro   | und Facilities Information |
|---|--|----------------------------|
| A | A. What was the object that failed?  |                            |
|   | 1 Equipment (check one)  |                            |
|   | a. Transformer   |                            |
|   | b. Switchgear  |                            |
|   | c. Load break cabinet  |                            |
|   | d. Capacitor bank  |                            |
|   | e. Other (please describe)   |                            |
|   | 2 Enclosure type (check one)   |                            |
|   | a. Stainless steel   |                            |
|   | b. Aluminun  |                            |
|   | c. Mild steel  |                            |
|   | d. Other (please describe)   |                            |
|   | 3 Conduit? (Y/N)   |                            |
|   | 4 Direct buried cable? (Y/N)   |                            |
|   | 5 Underground vault? (Y/N)   |                            |
| В | B. Attributes of facilities  |                            |
|   | 1 Type (check one)   |                            |
|   | a. Feeder  |                            |
|   | b. Lateral   |                            |
|   | 2 Anchoring equipment  |                            |
|   | a. Type of pad (describe)  |                            |
|   | b. Type of attachment to pad (describe)  |                            |
|   | 3 Age of facilities (years)  |                            |
|   | 4 Pre-storm condition  |                            |
|   | <ul> <li>a. Date of last inspection (year)</li> <li>4) Description transformation (description)</li> </ul> |                            |
|   | 1) Receive treatment? (describe)   | at)                        |
|   | b. Cable depth relative to surrounding area (fe  |                            |
|   | c. Hardened? (Y/N)<br>d. Installer (name)  |                            |
|   | C. Observed cause of failure? (Y/N)  |                            |
| ľ | 1 Source of water (check all that apply)   |                            |
|   | a. Storm surge   |                            |
|   | b. Flood water   |                            |
|   | 2 Type of water (check one)  |                            |
|   | a. Fresh water   |                            |
|   | b. Salt water  |                            |
|   | 3 Tree uprooting? (Y/N)  |                            |
|   |  | ]                          |
|   |  |                            |
|   |  |                            |
|   |  |                            |

#### **Forensics' Data From 2020**

There were no significant storms that impacted FPUC service territories to the extent that the collection of forensics data was necessary. Hurricane Sally and Zeta did impact the FPUC service territory but both resulted in minimal damage.

|                 | Dama                | ge Assessir | nent Summar  | y |  |  |  |
|-----------------|---------------------|-------------|--------------|---|--|--|--|
| Circuit #       | ALTHA               |             | Patrolled By |   |  |  |  |
| Map #           | 9952                |             |              |   |  |  |  |
| -<br>use #      |                     |             | Phone #      |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
| Poles           |                     | Sum         |              |   |  |  |  |
| 30 c 6          | (Secondary)         |             |              |   |  |  |  |
| 35 c 6          | (Secondary)         |             |              |   |  |  |  |
| 40 c 1          | (Single Phase)      |             |              |   |  |  |  |
| 45 c 1          | (two/three phase)   |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
| Guys/Anchors    |                     |             |              |   |  |  |  |
| 2g/1a           | (Single Phase)      |             |              |   |  |  |  |
| 2g/1a           | (Two Phase)         |             |              |   |  |  |  |
| 3g/2a           | (Three Phase)       |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
| Framing         | (Dala Tau Dia)      |             |              |   |  |  |  |
| Single Phase    | (Pole Top Pin)      |             |              |   |  |  |  |
| Two Phase       | (Mod-Triangular)    |             |              |   |  |  |  |
| Three Phase     | (Triangular)        |             |              |   |  |  |  |
| Single Phase    | (Dead End)          |             |              |   |  |  |  |
| Two Phase       | (Dead End)          |             |              |   |  |  |  |
| Three Phase     | (Dead End)          |             |              |   |  |  |  |
| Transformers    |                     |             |              |   |  |  |  |
| LO kva          |                     |             |              |   |  |  |  |
| 15 kva          |                     |             |              |   |  |  |  |
| 25 kva          |                     |             |              |   |  |  |  |
| 50 kva          |                     |             |              |   |  |  |  |
| other           |                     |             |              |   |  |  |  |
| Juici           |                     |             |              |   |  |  |  |
| Conductor       |                     |             |              |   |  |  |  |
| Splices         | (Locations)         |             |              |   |  |  |  |
| L/O AL          | (Lateral)           |             |              |   |  |  |  |
| 336/477         | (Feeder)            |             |              |   |  |  |  |
| 1/0 Triplex     | (Service/Secondary) |             |              |   |  |  |  |
| · .             | ,,                  |             |              |   |  |  |  |
| Tree Trimming   |                     |             |              |   |  |  |  |
| Spot Trim       | (Individual Trees)  |             |              |   |  |  |  |
| Frim/Clear      | (Spans)             |             |              |   |  |  |  |
| R/W Clearing    | (Spans)             |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
| Additional (Not | tes):               |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |
|                 |                     |             |              |   |  |  |  |

#### **Initiative #7 – Reliability Performance of Overhead vs Underground Systems**

FPUC collects outage data attributed to overhead or underground equipment failure in order to evaluate the associated reliability indices. OH & UG adjusted reliability indices are reported for each Division and for FPUC system total.

During 2020 there were no projects converting OH to UG on FPUC's system.

| 2020 - Reliability Indicators By UG & OH - FPUC Total (Adjusted) |   |                                |        |  |  |                                    |        | )     |
|--|---|--------------------------------|--------|--|--|------------------------------------|--------|-------|
| Construction   | Number<br>of<br>Outage<br>Events<br>(N) | Average<br>Duration<br>(L-Bar) | CAIDI  | Sum of all<br>Customer<br>Min.<br>Interrupted<br>(CMI) | Total<br>Customer<br>Interruptions<br>(CI) | Total<br>Outage<br>Duration<br>(L) | SAIDI  | SAIFI |
| ОН   | 1,036                                   | 92.43                          | 89.23  | 4,410,475  | 49,429                                     | 95,761                             |        |       |
| UG   | 66                                      | 143.70                         | 131.88 | 219,843  | 1,667                                      | 9,484                              |        |       |
| Grand Total  | 1,102                                   | 95.50                          | 90.62  | 4,630,318  | 51,096                                     | 105,245                            | 157.60 | 1.74  |

Total # of Customers at end of 2020 ==>

29,380

| 2020 - (                       | 2020 - OH Reliability by Feeder - FPUC NE (Adjusted) |                             |        |   |                                   |                           |        |       |
|--------------------------------|--|-----------------------------|--------|---|-----------------------------------|---------------------------|--------|-------|
| FEEDER                         | Outage<br>Events<br>(N)                              | Ave.<br>Duration<br>(L Bar) | CAIDI  | Customer<br>Min.<br>Interrupt<br>ed (CMI) | Customer<br>Interruptions<br>(CI) | Outage<br>Duration<br>(L) | SAIDI  | SAIFI |
| AMELIA ISLAND PARKWAY (312)    | 14   | 112.18                      | 209.65 | 88,473                                    | 422                               | 1,570                     |        |       |
| BAILEY (311)                   | 59   | 70.63                       | 37.10  | 265,519                                   | 7,157                             | 4,167                     |        |       |
| BONNIEVIEW (310)               | 22   | 67.92                       | 101.34 | 63,335                                    | 625                               | 1,494                     |        |       |
| CLINCH DRIVE (214)             | 29   | 75.54                       | 94.75  | 70,208                                    | 741                               | 2,191                     |        |       |
| ELEVEN STREET (212)            | 45   | 132.63                      | 116.55 | 304,662                                   | 2,614                             | 5,968                     |        |       |
| FIFTEENTH STREET (209)         | 19   | 103.73                      | 94.95  | 12,153                                    | 128                               | 1,971                     |        |       |
| JASMINE STREET (211)           | 63   | 94.61                       | 90.08  | 914,443                                   | 10,151                            | 5,960                     |        |       |
| NECTARINE (210)                | 16   | 74.39                       | 72.12  | 23,801                                    | 330                               | 1,190                     |        |       |
| PLANTATION FIELDSIDE (111)     | 8  | 128.38                      | 62.01  | 6,201                                     | 100                               | 1,027                     |        |       |
| PLANTATION ROADSIDE (110)      | 4  | 68.33                       | 105.18 | 2,840                                     | 27                                | 273                       |        |       |
| SADLER NECTARINE SO.14TH (215) | 14   | 74.19                       | 93.61  | 24,901                                    | 266                               | 1,039                     |        |       |
| SOUTH FLETCHER (102)           | 54   | 87.88                       | 142.05 | 93,471                                    | 658                               | 4,745                     |        |       |
| Grand Total                    | 347  | 91.06                       | 80.54  | 1,870,008                                 | 23,219                            | 31,597                    | 109.11 | 1.35  |

Total # of NE Customers in 2020:17,138

| 2020 - UG Reliability by Feeder - FPUC NE (Adjusted) |                         |                          |        |  |                                   |                           |       |       |
|--|-------------------------|--------------------------|--------|--|-----------------------------------|---------------------------|-------|-------|
| FEEDER   | Outage<br>Events<br>(N) | Ave. Duration<br>(L Bar) | CAIDI  | Customer<br>Min.<br>Interrupted<br>(CMI) | Customer<br>Interruptions<br>(CI) | Outage<br>Duration<br>(L) | SAIDI | SAIFI |
| AMELIA ISLAND PARKWAY (312)                          | 3                       | 122.17                   | 48.81  | 38,416                                   | 787                               | 366                       |       |       |
| BAILEY (311)   | 2                       | 68.37                    | 84.22  | 1,937                                    | 23                                | 137                       |       |       |
| BONNIEVIEW (310)                                     | 1                       | 189.00                   | 189.00 | 189                                      | 1                                 | 189                       |       |       |
| CLINCH DRIVE (214)                                   | 4                       | 66.50                    | 50.58  | 1,214                                    | 24                                | 266                       |       |       |
| FIFTEENTH STREET (209)                               | 4                       | 128.26                   | 123.59 | 742                                      | 6                                 | 513                       |       |       |
| JASMINE STREET (211)                                 | 6                       | 108.42                   | 108.42 | 651                                      | 6                                 | 651                       |       |       |
| NECTARINE (210)                                      | 1                       | 222.30                   | 222.30 | 222                                      | 1                                 | 222                       |       |       |
| PARKWAY SOUTH (104)                                  | 1                       | 131.10                   | 131.10 | 131                                      | 1                                 | 131                       |       |       |
| PLANTATION FIELDSIDE (111)                           | 4                       | 144.39                   | 121.05 | 14,768                                   | 122                               | 578                       |       |       |
| PLANTATION ROADSIDE (110)                            | 11                      | 152.90                   | 312.73 | 96,634                                   | 309                               | 1,682                     |       |       |
| SADLER NECTARINE SO.14TH (215)                       | 3                       | 159.55                   | 155.63 | 2,334                                    | 15                                | 479                       |       |       |
| SOUTH FLETCHER (102)                                 | 8                       | 142.24                   | 136.99 | 39,179                                   | 286                               | 1,138                     |       |       |
| Grand Total  | 48                      | 132.32                   | 124.24 | 196,417                                  | 1,581                             | 6,351                     | 11.46 | 0.09  |

Total # of NE Customers in 2020:

17,138

| FEEDER                 | Outage<br>Events<br>(N) | Ave. Duration<br>(L Bar) | CAIDI  | Customer Min.<br>Interrupted<br>(CMI) | Customer<br>Interruptions<br>(CI) | Outage<br>Duration (L) | SAIDI  | SAIF |
|------------------------|-------------------------|--------------------------|--------|---------------------------------------|-----------------------------------|------------------------|--------|------|
| ALTHA (9952)           | 61                      | 102.10                   | 65.55  | 182,110                               | 2,778                             | 6,228                  |        |      |
| BLOUNTSTOWN (9972)     | 11                      | 99.49                    | 45.31  | 13,413                                | 296                               | 1,094                  |        |      |
| BRISTOL (9882)         | 61                      | 96.20                    | 104.73 | 303,505                               | 2,898                             | 5,868                  |        |      |
| COLLEGE (9982)         | 74                      | 80.19                    | 58.07  | 151,397                               | 2,607                             | 5,934                  |        |      |
| COTTONDALE (9866)      | 97                      | 100.02                   | 121.48 | 545,810                               | 4,493                             | 9,702                  |        |      |
| DOGWOOD HEIGHTS (9722) | 17                      | 90.66                    | 91.22  | 16,238                                | 178                               | 1,541                  |        |      |
| FAMILY DOLLAR (9782)   | 2                       | 102.38                   | 77.11  | 2,005                                 | 26                                | 205                    |        |      |
| GREENWOOD (9742)       | 67                      | 104.24                   | 85.50  | 367,833                               | 4,302                             | 6,984                  |        |      |
| HOSPITAL (9872)        | 57                      | 93.15                    | 102.37 | 190,201                               | 1,858                             | 5,310                  |        |      |
| HWY 90E (9942)         | 36                      | 87.34                    | 89.06  | 65,191                                | 732                               | 3,144                  |        |      |
| HWY 90W (9992)         | 36                      | 68.50                    | 109.07 | 195,896                               | 1,796                             | 2,466                  |        |      |
| INDIAN SPRINGS (9932)  | 47                      | 104.75                   | 165.63 | 344,845                               | 2,082                             | 4,923                  |        |      |
| INDUSTRIAL PARK (9752) | 5                       | 118.99                   | 118.99 | 595                                   | 5                                 | 595                    |        |      |
| PRISON (9732)          | 8                       | 68.08                    | 46.53  | 3,257                                 | 70                                | 545                    |        |      |
| RAILROAD (9512)        | 19                      | 96.31                    | 92.76  | 27,179                                | 293                               | 1,830                  |        |      |
| SOUTH STREET (9854)    | 91                      | 85.65                    | 72.94  | 130,992                               | 1,796                             | 7,794                  |        |      |
| Grand Total            | 689                     | 93.13                    | 96.93  | 2,540,467                             | 26,210                            | 64,164                 | 207.52 | 2.14 |

12,242

Total # of NW Customers in 2020:

| 20                    | )20 - UG R              | eliability by            | Feeder - F | PUC NW (                                 | Adjusted)                         |                           |       |       |
|-----------------------|-------------------------|--------------------------|------------|--|-----------------------------------|---------------------------|-------|-------|
| FEEDER                | Outage<br>Events<br>(N) | Ave. Duration<br>(L Bar) | CAIDI      | Customer<br>Min.<br>Interrupted<br>(CMI) | Customer<br>Interruptions<br>(CI) | Outage<br>Duration<br>(L) | SAIDI | SAIFI |
| ALTHA (9952)          | 1                       | 301.93                   | 301.93     | 604                                      | 2                                 | 302                       |       |       |
| COLLEGE (9982)        | 4                       | 121.39                   | 123.26     | 616                                      | 5                                 | 486                       |       |       |
| COTTONDALE (9866)     | 1                       | 75.00                    | 75.00      | 75                                       | 1                                 | 75                        |       | 1     |
| HWY 90E (9942)        | 5                       | 241.59                   | 389.57     | 14,414                                   | 37                                | 1,208                     |       |       |
| HWY 90W (9992)        | 1                       | 191.00                   | 191.00     | 191                                      | 1                                 | 191                       |       |       |
| INDIAN SPRINGS (9932) | 4                       | 176.12                   | 199.24     | 7,173                                    | 36                                | 704                       |       |       |
| PRISON (9732)         | 1                       | 92.78                    | 92.78      | 278                                      | 3                                 | 93                        |       |       |
| SOUTH STREET (9854)   | 1                       | 74.60                    | 74.60      | 75                                       | 1                                 | 75                        |       |       |
|                       |                         |                          |            |  |                                   |                           |       |       |
| Grand Total           | 18                      | 174.07                   | 272.40     | 23,426                                   | 86                                | 3,133                     | 1.91  | 0.01  |

Total # of NW Customers in 2020:12,242

# **Initiative #8 – Utility Company Coordination with Local Governments**

FPUC actively participates with local governments in pre-planning for emergency situations and in coordinating activities during emergency situations. Current practice is to have FPUC personnel located at the county EOC's on a 24 hour basis and at the State EOC as needed during emergency situations to ensure good communications.

FPUC has continued involvement with local governments regarding reliability issues with emphasis on both undergrounding and vegetation management. All parties have continued to cooperate in order to address vegetation management issues in a cost effective manner when possible so that overall reliability impacts are minimized.

FPUC has a dedicated Manager of Government Relations that is responsible for maintaining relationships with local and state government officials/staff, business and community leaders. This employee responds quickly to customer issues referred by elected and governmental officials and their representatives.

# **Initiative #9 – Collaborative Research**

FPUC is participating with the Public Utility Research Center (PURC) along with other investor owned, cooperative, and municipal electric utilities in order to perform beneficial research regarding hurricane winds and storm surge within the state. PURC has demonstrated the ability to lead and coordinate multiple groups in research activities. FPUC will continue to support this effort but does not intend to conduct any additional research at this time.

The benefits of the research work among the utilities and PURC include increased and sustained collaboration and discussion among the members of the Steering Committee, greater knowledge of the determinants of damage during storm and non-storm times, greater knowledge and data from wind collection stations and post-hurricane forensics in the State of Florida, and continued state-to-state collaboration with others in the Atlantic Basin Hurricane Zone.

The 2021 report regarding activities in 2020 follows on the next page.

# **Report on Collaborative Research for Hurricane Hardening**

Provided by

The Public Utility Research Center University of Florida

To the

Utility Sponsor Steering Committee

Final Report dated February 2021

# I. Introduction

The Florida Public Service Commission (FPSC) issued Order No. PSC-06-00351-PAA-EI on April 25, 2006 (Order 06-0351) directing each investor-owned electric utility (IOU) to establish a plan that increases collaborative research to further the development of storm resilient electric utility infrastructure and technologies that reduce storm restoration costs and outages to customers. This order directed IOUs to solicit participation from municipal electric utilities and rural electric cooperatives in addition to available educational and research organizations. As a means of accomplishing this task, the IOUs joined with the municipal electric utilities and rural electric cooperatives in the state (collectively referred to as the Research Collaboration Partners) to form a Steering Committee of representatives from each utility and entered into a Memorandum of Understanding (MOU) with the University of Florida's Public Utility Research Center (PURC). In 2018 the Research Collaboration MOU was renewed for an initial term of two years, effective January 1, 2019, and will be automatically extended for successive two-year terms.

PURC performs the administration function for research collaboration, including financial management, logistics, production and distribution of documents, and preparation of reports. PURC also coordinates and performs research as agreed upon with the Steering Committee by facilitating the exchange of information from the Research Collaboration Partners with individuals conducting research projects and facilitating the progress of each research project. The collaborative research has focused on undergrounding, vegetation management, hurricane-wind speeds at granular levels, and improved materials for distribution facilities.

This report provides an update on the activities of the Steering Committee since the previous report dated February 2020.

# II. Undergrounding

The collaborative research on undergrounding has been focused on understanding the existing research on the economics and effects of hardening strategies, including undergrounding, so that informed decisions can be made about undergrounding policies and specific undergrounding projects.

The collaborative has refined the computer model developed by Quanta Technologies and there has been a collective effort to learn more about the function and functionality of the computer code.

In addition, PURC has worked with doctoral and master's candidates in the University of Florida Department of Civil and Coastal Engineering to assess some of the inter-relationships between wind speed and other environmental factors on utility equipment damage. PURC has also been contacted by engineering researchers at the University of Wisconsin and North Carolina State University with an interest in the model, though no additional relationships have been established. In addition to universities, PURC has been in contact with stakeholders in Puerto Rico in light of PURC Director Mark Jamison's appointment to the Southern States Energy Board Blue Ribbon Task Force on the future of Puerto Rico's energy system. The stakeholders, government and task force are concerned with strategies to make Puerto Rico's system more resilient and are interested in the role that the model could play. PURC has been contacted by California stakeholders interested in applying the principles of the model to the mitigation of the interactions between the electricity grid and the surrounding vegetation, potentially reducing the risk of wildfires. Finally, PURC has been contacted by stakeholders in New York with interest to model the impact of storm hardening to winter storms. Despite the outside interest, there are no concrete plans to expand the scope of the model at this time. Every researcher that contacts PURC cites the model as the only non-proprietary model of its kind.

# **III. Wind Data Collection**

The Project Sponsors entered into a wind monitoring agreement with WeatherFlow, Inc., in 2007. Under the agreement, Florida Sponsors agreed to provide WeatherFlow with access to their properties and to allow WeatherFlow to install, maintain and operate portions of their wind monitoring network facilities on utility-owned properties under certain conditions in exchange for access to wind monitoring data generated by WeatherFlow's wind monitoring network in Florida. WeatherFlow's Florida wind monitoring network includes 50 permanent wind monitoring stations around the coast of Florida, including one or more stations located on utility-owned property. The wind monitoring agreement expired in early 2012; however, it was renewed in April 2017 and will renew automatically annually on the effective date for an additional one year period, unless terminated by the parties to the agreement.

# **IV. Public Outreach**

We have previously discussed the impact of increasingly severe storms and the increased population and utility infrastructure along the coast on greater interest in storm preparedness. PURC researchers continue to discuss the collaborative effort in Florida with the engineering departments of the state regulators in New York, New Jersey, and Pennsylvania, and regulators in Jamaica, Grenada, Curacao, St. Lucia, the Bahamas, Samoa, and the Philippines. In 2019, stakeholders in Puerto Rico and California also showed interest in the collaborative's efforts. While all of the regulators and policymakers showed great interest in the genesis of the collaborative effort, and the results of that effort, they have not, at this point, shown further interest in participating in the research effort. In 2020, there continued to be considerable interest in Florida's hardening efforts from the popular media in California, in light of continued wildfire problems in the state and their aftermath. Interest in Florida's storm hardening efforts continued in the popular media with PURC Director of Energy Studies Ted Kury featured in segments on NY1 in New York City and The Weather Channel, where he discussed Florida's Hurricane Season Preparation Workshops and collaborative efforts.

# **VI.** Conclusion

In response to the FPSC's Order 06-0351, IOUs, municipal electric utilities, and rural electric cooperatives joined together and retained PURC to coordinate research on electric infrastructure hardening. The steering committee has taken steps to extend the research collaboration MOU so that the industry will be in a position to focus its research efforts on undergrounding research, granular wind research and vegetation management when significant storm activity affects the state.

# **Initiative #10 – Natural Disaster Preparedness and Recovery Program**

FPUC utilizes these plans to prepare for storms annually and to ensure all employees are aware of their responsibilities. The primary objective of the Disaster Preparedness and Recovery Plan is to provide guidelines under which Florida Public Utilities Company will operate in emergency situations. These Procedures do not include the additional steps we have implemented in case of a Pandemic occurrence at the time of a natural disaster recovery. The information contained within the Emergency Procedures are updated on an annual basis. The following objectives are included to ensure orderly and efficient service restoration.

- 1. The safety of employees, contractors and the general public will have the highest priority.
- 2. Early damage assessment is required in order to develop manpower requirements.
- 3. Request additional manpower as soon as conditions and information indicate the need.
- 4. Provide for orderly restoration activities in order to provide efficient and rapid restoration.
- 5. Provide all logistical needs for employees and contractors.
- 6. Provide ongoing preparation of our employees, buildings, equipment and support function in advance of an emergency.
- 7. Provide support and additional resources for employees and their families should they need assistance to address injury or damage as a result of the emergency situation.

Based on the location of the storm, the division office in that area will be designated as the operations center and all restoration and logistical activities will be coordinated from that location. Restoration activities will be handled in the following manner:

- 1. During the early stages of the emergency, restoration will be handled in a coordinated manner that results in all services restored as soon as possible.
- 2. As the storm intensifies and trouble reaches major proportions, the main restoration activities will be limited to keeping main feeders energized by clearing trouble without making repairs.
- 3. When the intensity of the storm is such that work can no longer be done safely, all work will cease and personnel will report to the office or other safe locations.
- 4. When the storm has subsided to a reasonable level and it is safe to begin restoration activities damage assessment and restoration of main feeders to critical customers will begin.
- 5. Restoration activities will continue in an effort to restore service in the following manner:
  - a) Transmission
  - b) Substations
  - c) Main feeders to critical customers
  - d) Other main feeders
  - e) Undamaged primary
  - f) Damaged primary, secondary, service, street lights, security lights

These guidelines are not intended to prevent responding to emergency situations. Any life threatening emergency will be handled immediately, in such a manner as to not endanger the lives of others.

Communication efforts with local governments, County and State EOC's and the media will be a key in ensuring a safe and efficient restoration effort. Key personnel will be designated as the media liaison and will ensure that communications regarding the status of the restoration activities are available on a scheduled basis.

2020 Emergency Procedures for both divisions along with any changes are as listed below.

# **NORTHEAST DIVISION CHANGES**

General Update Information

**Revisions**:

- Miscellaneous changes to employee names and titles
- Revised General Procedures to correct language and provide some commonality between Divisions
- Revised storm materials
- Updated contacts and phone numbers were appropriate

# **NORTHWEST DIVISION CHANGES**

General Update Information

**Revisions**:

- Miscellaneous changes to employee names and titles
- Revised General Procedures to correct language and provide some commonality between Divisions
- Added Propane/ Natural Gas to storm procedures
- Revised storm Materials
- Updated contacts and phone numbers were appropriate



# FLORIDA PUBLIC UTILITIES COMPANY

# **NORTHEAST FLORIDA DIVISION**

# 2020

# EMERGENCY PROCEDURES NATURAL DISASTER & RECOVERY

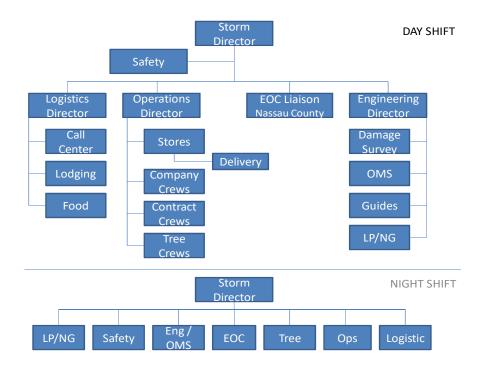
Florida Public Utilities Company

# 1. <u>OBJECTIVE</u>

The primary objective of the procedure is to provide guidelines under which the Northeast Florida Division of Florida Public Utilities Company will operate in emergency conditions. The following objectives will ensure orderly and efficient service restoration.

- A. The safety of employees, contractors and the general public will have the highest priority.
- B. Early damage assessment is required in order to develop manpower requirements.
- C. Request additional manpower as soon as conditions and information indicate the need.
- D. Provide for orderly restoration activities in order to provide efficient and rapid restoration.
- E. Provide all logistical needs for employees and contractors.
- F. Provide ongoing preparation of our employees, buildings, equipment and support function in advance of an emergency.
- G. Provide support and additional resources for employees and their families should they need assistance to address injury or damage as a result of the emergency situation.

# 2. <u>STORM MODE ORGANIZATIONAL CHART</u>



# \*NOTE: NIGHT SHIFT MAY OR MAY NOT BE UTILIZED

# 3. <u>EMERGENCY PERSONNEL POLICY</u>

As a public utility we provide essential services for our customers and the general public. Therefore, the purpose of the Company's Emergency Personnel Policy is to encourage employees to make every reasonable effort to report to work. Each employee performs an essential role in the Company's operation and it's important that you report to duty as scheduled during an emergency. Restoring and maintaining services after a major storm is a difficult job and requires everyone's best efforts. If necessity, employees may be required to assist other departments or perform functions outside of their normal daily work assignment. It will take every employee's cooperation before, during and after an emergency.

- A. If you are on the job when the storm approaches, your supervisor will inform you of your storm assignment. Employees not directly involved in maintaining services <u>may</u> be released to go home before the storm threatens safe travel.
- B. If you are off-duty, call your immediate supervisor as soon as possible after an emergency condition is announced. An Emergency Condition Warning is usually given within 24 hours of occurrence. Your supervisor will inform you as to where and when you'll be needed prior to, during, and after the storm. If your supervisor is not available call his/her immediate supervisor or the Northeast Florida Office. This requirement applies to all Northeast division employees when an emergency threatens any of the Company's service areas.

- C. During an emergency, the company will maintain a small workforce to monitor the emergency and address emergency conditions that may exists. This workforce will be located at a safe location and work closely with the Counties served EOCs. The company will determine what workforce is required and will consider utilizing those employees who volunteer for this type of work. Local Management will form the basis of this group. Other employees will be included based on the severity and timing of the emergency.
- D. All employees are strongly encouraged to have a personal evacuation plan and know what to do during an emergency condition that impacts the service area. The plan should take into consideration the magnitude of the emergency and the significance of the actions that may be necessary. The plan should ensure that the employee and their family are safely out of harm's way while still allowing the employee to respond as required when the emergency conditions subside to a manageable level.
- E. The company plans to move much of the transportation equipment to separate locations to ensure one event does not cause damage to the fleet. Employees are encouraged to volunteer to take certain vehicles with them prior to the emergency and use them to return to work as soon as possible after the emergency conditions subside to a manageable level. The company will determine how the transportation equipment is distributed among the volunteer employees.
- F. After the emergency passes, all personnel not on duty during the storm will report as soon as possible to their supervisor or his/her designate by telephone. In the event the telephones are not working or you are unable to communicate with your supervisor or the company office, report in person to your regular work station as soon as possible during daylight hours.
- G. EMPLOYEES ARE TO MAKE EVERY <u>REASONABLE</u> EFFORT TO REPORT TO WORK. IT'S UNDERSTOOD THAT THERE WILL BE INSTANCES WHERE EMPLOYEES JUST CAN'T GET TO WORK. IF YOU ARE UNABLE TO REPORT TO WORK MAKE EVERY EFFORT TO CONTACT YOUR SUPERVISOR TO REPORT YOUR ABSENCE.
- H. Personal emergencies are common results of a major hurricane but, unless approved by your Supervisor, will not be acceptable as an excuse for not reporting to work. Evacuation from a hurricane threatened area to a remote location from which you cannot promptly return to your home is also not acceptable as a reason for not reporting to work.
- I. The Company will endeavor to provide assistance to employees and their immediate families should an employee need or request assistance.
- J. Unless emergency conditions warrant, employees will not be allowed to work in excess of sixteen (16) hours during a 24 hour period.

The success of the emergency plan requires the cooperation and efforts of all of our employees. Employees may be required to return from their vacation or Company sponsored travel. Therefore, it will be the responsibility of each supervisor to determine the location of each of their employees on Company sponsored trips to facilitate their recall if conditions warrant their return when the emergency plan is implemented. Employees who are on vacation will notify, by telephone, their supervisors of their location and availability when an emergency threatens to strike our service area. Supervisors will consult with their department head to determine the feasibility and need to recall employees from vacation or Company sponsored trips. All employees are essential for the continued operation of the Company obligations and Company objectives.

The Company will develop information which will assist employees and their families before, during and after the storm. Management will be responsible for obtaining the information and communicating this information to the employees. The Company will attempt to provide as much assistance as practical to the employees and their families during emergency situations if needed

# 4. <u>GENERAL RESTORATION GUIDELINES</u>

These general guidelines are issued to provide overall guidance as to emergency system restoration activities. These guidelines will be followed as much as practical in emergencies caused by hurricanes, tornadoes, ice storms and other natural disasters.

These guidelines are not intended to nor will they put in jeopardy the safety of any employee or their family. Dependent upon the intensity of the storm as determined by the company's management, employees will be required to report to work as instructed. If the intensity of the storm is such that weather conditions will be extremely severe, only a skeleton crew will be present at the work location. All others will report for duty as soon as conditions subside to a reasonable level. Those on vacation will be expected to report for duty.

The Northeast Florida operations building was designed to withstand 160 mph sustained winds. If winds are expected to significantly exceed these ratings, alternative locations will be identified and restoration will be relocated to an alternate Facility.

These guidelines are not intended to prevent responding to emergency situations. Any life threatening emergency will be handled immediately, in such a manner as to not endanger the lives of others.

Each employee and contractor should maintain good customer relations during restoration activities. Customer service will continue to be a high priority and every reasonable effort should be made to satisfy our customers.

Press releases and public announcements should be made only by designated company management personnel.

Restoration activities will be handled in the following manner:

- A. During the early stages of the emergency, restoration will be handled in the usual manner. All service will be restored as soon as possible.
- B. As the storm intensifies and trouble reaches major proportions, the main restoration activities will be limited to keeping main feeders energized by clearing trouble without making repairs.
- C. When the intensity of the storm is such that work can no longer be done safely, all work will cease and personnel will report to the office or other safe location. Aerial work will not be conducted when wind speed reach 35 miles per hour.
- D. When the storm has subsided to a reasonable level and it is safe to begin restoration activities damage assessment and restoration of main feeders to critical customers will begin.
- E. Restoration activities will continue in an effort to restore service in the following manner:
  - 1) Transmission
  - 2) Substations
  - 3) Main feeders to critical customers
  - 4) Other main feeders
  - 5) Undamaged primary
  - 6) Damaged primary, secondary, service, street lights, security lights

These guidelines are not intended to prevent responding to emergency situations. Any life threatening emergency will be handled immediately, in such a manner as to not endanger the lives of others.

Each employee and contractor should maintain good customer relations during restoration activities. Customer service will continue to be a high priority and every reasonable effort should be made to satisfy our customers.

Press releases and public announcements should be made only by designated company management personnel.

# 5. <u>EMERGENCY ELECTRIC SAFETY PRECAUTIONS</u>

<u>All Rules in the Safety Manual shall be observed.</u> However, in order to point out some particular precautions which should be observed during storms, the following instructions listed below should receive special emphasis:

ALL incoming crews must have a safety briefing as soon as practical upon arrival and prior to starting any work. This will be to introduce them to our system and inform them of our expectations. Pole bands at open points shall be used to identify the work zone. The responding Company's safety rules SHALL be observed as well as our rubber glove, ground to ground rule during the storm and restoration period.

Be advised that NET metering is present on our system and can be identified by a green stripe around meter glass.

# A. EVALUATING THE WORK:

Before undertaking any job, a job briefing shall be thoroughly discussed and documented so all personnel shall understand what is to be done, how it is to be done, and the following:

- 1. Voltage and position of all wires, or cables, and the sources or source of energy.
- 2. All grounding, cover up and switching procedures shall be observed.
- 3. That the work at hand can be done safely.
- 4. That there is a sufficient amount of each kind of protective equipment on hand to thoroughly protect the working position and the work man.
- 5. They should consider the ground and traffic conditions and arrange to protect and guard these against all hazards.

### B. **INSULATION:**

In cases of trouble following storms, all wires, regardless of normal voltage, are to be considered as being at primary voltage and are not to be handled except with protective equipment because of danger of crosses between primary and secondary circuits. (This is a ground to ground statement) This may be modified on a case by case basis by the joint agreement of the Operations Manager and Safety Coordinator.

#### C. DISTRIBUTION CIRCUITS ON OR NEAR TRANSMISSION POLES:

If it is necessary to work on the conductors of a distribution circuit carried on or near transmission line poles with the transmission circuit energized and normal, any work on the conductors of the distribution circuits must be done between sets of grounds or else the distribution circuit must be worked and treated as an energized circuit. To determine positively that the lines to be worked are de-energized, test or investigation must be made before grounds are applied.

If the transmission line is also out of service, it must be considered as a possible source from which the distribution circuit may be energized, and it must be definitely determined that the transmission circuit as well as the distribution circuit is de-energized and grounded and the source or sources of supply are open and proper clearance obtained before the distribution circuit may be worked as de-energized.

# D. STREET LIGHTING WIRES:

Street lighting wires shall be considered energized at all times and the workman shall protect himself against them with proper protective equipment even when circuits are normally de-energized. Such a line can become

energized by accidental induction or lightning and sometimes street lighting wires become crossed with other energized wires.

# E. <u>FUSE CUT-OUT CLEARANCE:</u>

When a distribution circuit is to be de-energized and cleared for working on conductors or other equipment by the opening of a fuse cut-out, either of the enclosed or open type, the fuse holder or tube is to be removed completely from the fuse assembly. The removed fuse holder or tube is to be placed at a safe and conspicuous location away from the fuse cut-out as an indication to other employees. The fuse cut-out shall continue in this open position until the work is completed. In addition, a red "hold" switch tag (with Lineman's name) should be attached to the pole in a conspicuous location and then removed when work is completed.

A pole band SHALL be used to identify who is working beyond the open point.

## F. <u>REQUIREMENTS FOR USE OF RUBBER PROTECTIVE APPARATUS:</u>

In case of trouble following storms, all wires, regardless of normal voltage, are to be considered as being at primary voltage and are not to be handled except with protective equipment because of danger of crosses between primary and secondary circuits.

- 1. Energized Conductors Rubber gloves must always be worn when working on energized lines or energized conductors or equipment up to 15,000 volts between conductors.
- 2. Working position Rubber gloves must be put on before coming in reach of energized conductors when work is done on conductors or protective equipment is to be installed.

Because of the possibility of high voltage existing, rubber gloves must be worn until the conductor is grounded on primary circuits and on street lighting circuits.

<u>Care of Rubber Protective Apparatus</u> - At each job, before a workman puts on his rubber gloves, he should test each glove mechanically for cuts and weak spots by rolling it up tightly, beginning at the gauntlet. All of this type equipment, when not in use, must be stored in dry proper containers or compartment provided for this purpose.

# G. <u>SWITCHING ORDERS:</u>

All feeder switching and switching orders shall be communicated to the Operations Manager.\_In all switching orders, the switches shall be referred to by their <u>numbers</u> and not by the name of the circuit which they control. The sequence, in which the switch numbers are given, in the order, shall indicate the sequence of the switching operation. For example, an order given: "open switches 502-509 and close switches 511-502" shall be executed as follows: first, open switch 502; second, open switch 509; third, close switch 511; fourth, close switch 502.

#### NO DEVIATION FROM THIS RULE WILL BE PERMITTED.

To avoid misunderstandings and to prevent accidents, all orders concerning switching operation or the handling of lines and equipment must be repeated to the person giving name, and <u>identity</u> of person giving order secured. Likewise, the operator giving an order must secure <u>identity</u> of person to whom it is given. (Three part communication)

All switching orders must be written on a piece of paper by the person receiving same, and this written order must be carried by the person while doing the switching. *In no case shall anyone attempt to execute a switching order from memory.* All switching orders and tags shall be turned into the Safety Coordinator as soon as practical.

# H. <u>HIGH WATER:</u>

During periods of high water involving lines or equipment, patrolmen shall not attempt to swim sections of the patrol which may be submerged. Necessary patrols over flooded areas must be done with boats and in such instances men engaged in these patrols shall wear suitable life belts or jackets.

# I. BROKEN CONDUCTORS:

Before climbing pole, check for broken conductors, which may be in contact with pole. Clear before climbing.

# 6. <u>ANNUAL PREPARATIONS</u>

## **Storm Director**

- A. Review emergency procedure prior to May 1 and update as necessary.
- B. Develop employee assignments with all personnel prior to June 1.
- C. Update status of emergency crew assistance (Contractors, NW Florida, SEE, etc.).
- D. Ensure storm shutters, laundry facilities and cooking facilities are available.
- E. Ensure that Safety, Logistics, Operations and Engineering have completed pre-storm preparations.

#### **Electric Operations Manager**

- A. Check all communication equipment for proper operation. Check spare equipment and parts.
- B. Check material quantities and emergency stock prior to June 1. Communicate material requests to Stores Manager to purchase the emergency stock approved for purchase prior to an emergency.
- C. Have necessary emergency material delivered prior to June 1.
- D. Review status of all transportation equipment and have repairs made.
- E. Update status of remote storeroom site and trailer(s).
- F. Update status of emergency fuel suppliers, on site fuel and mobile fuel suppliers.
- G. Update status of vehicle repair facilities.

# <u>Safety</u>

- A. Review safety precautions with all line crew personnel prior to June 1.
- B. Schedule and conduct half day emergency procedure training sessions prior to June 1. Written documentation is to be retained when training is complete.
- C. Review assignments with each department by June 1.

# **Propane/ Natural Gas Operations Manager**

- A. Check all communication equipment for proper operation. Check spare equipment and parts.
- B. Check material quantities and emergency stock prior to June 1. Begin necessary purchasing of emergency stock approved for purchase prior to an emergency.
- C. Review safety precautions with all propane and natural gas personnel prior to June 1.
- D. Have necessary emergency material delivered prior to June 1.
- E. Review status of all transportation equipment and have repairs made.
- F. Update status of emergency fuel suppliers, on site fuel and mobile fuel suppliers.
- G. Update status of vehicle repair facilities.

## Customer Care / Logistics

- A. Update the list of critical customers by town/county and provide updates to the Storm Director by June 1. Group the critical customers by town/county by classification:
  - 1) Hospitals and clinics
  - 2) Public utilities
  - 3) Municipal and state emergency service
  - 4) Communication and broadcasting services
  - 5) Major food storage/processing facilities
  - 6) Disaster shelter and motels
  - 7) Correctional facilities
  - 8) Airport
- B. Update phone list for employees, law enforcement, emergency management, city/towns, utilities, contractors, tree trimming, personnel, news media, PSC, DCA, EDC, GEO, etc. and provide updates to the Storm Director by June 1.
- C. Review emergency telephone arrangements and make additional preliminary arrangements.
- D. Update status of motel rooms necessary for emergency/contract crews.
- E. Locate sources of food/water for crews and office personnel. Identify local and out of town caterers.
- F. Locate sources for provision of the following Division office supplies.
- G. Update status of cellular phones.
- H. Update the procedure of the Office Operation.

#### Engineering

- A. Update and have on hand the following:
  - 1. Storm safety precautions
  - 2. General operating instructions
  - 3. Distribution maps
  - 4. Single line switching maps
  - 5. City and county maps

- B. Have control room and all necessary information and equipment ready for prompt setup. Phone jacks, internet connection and distribution map are minimum requirements.
- C. Conduct annual refresher training for personnel required to operate the Outage Management System (OMS).

# Crew Leaders

- A. Review status of all transportation equipment and have repairs made
- **B.** Verify all vehicles kept filled with fuel
- C. Assist with annual refresher training

## **Warehouse**

- **A.** Check material quantities and emergency stock prior to June 1. Begin necessary purchasing of emergency stock approved for purchase prior to an emergency.
- **B.** Have necessary emergency material delivered prior to June 1.

# 7. <u>INITIATE STORM MODE PLAN</u>

#### **Storm Director**

- A. Monitor the emergency.
- B. Begin making preparations for obtaining emergency assistance from other utilities and contractors.
- C. Check the status of personnel on vacation.
- D. Handle all media request by relaying contact information to Marketing or Management.
- E. Inform all employees as to assignments and emergency information.
- F. Consult with the Executive Team concerning activation of Division Emergency Procedures.
- G. Consult with Executive Team concerning assistance from other divisions (i.e. mechanics, storeroom, media, family assistance, IT/Communications). Personnel from other divisions will be identified and mobilized. They will move as close as practical to Northeast Florida and then proceed to the office as soon after the emergency as travel can be accomplished safely. This location may change dependent upon the situation.
- H. Obtain special job number for all emergency related work.
- I. Make determination on when to release personnel to go home and provide instructions to employees.
- J. Ensure contact with FPL is established.

# **Electric Operations Manager**

- A. Have all vehicles stocked with all necessary emergency materials and fuel.
- B. Monitor time/material needs of contractors.

- C. Check emergency stock levels and fuel supplies.
- D. Review plan to supply power to office and warehouse facility.
- E. Check all communication equipment.
- F. Review safety precautions with all personnel.
- G. Review job assignments with personnel and pass out necessary forms, information.
- H. Have all hazardous conditions corrected and construction jobs stabilized.
- I. Verify fuel supplier availability.
- J. Make arrangements for a boat and trailer suitable for construction.
- K. Ensure all vehicle repairs are made and final arrangements with vehicle repair facilities confirmed.
- L. Check on emergency generators and secure additional generators if needed.
- M. Secure all material in the warehouse yard.

# **Safety**

- A. Monitor the Storm.
- B. Check and verify that yard and buildings are safe and secure.

#### **Propane/Natural Gas Operations Manager**

- A. Have all vehicles stocked with all necessary emergency materials and fuel.
- B. Monitor time/material needs of contractors.
- C. Check emergency stock levels and fuel supplies.
- D. Review plan to supply power to bulk plant using backup power supplies.
- E. Check all communication equipment.
- F. Review safety precautions with all personnel.
- G. Review job assignments with personnel and pass out necessary forms, information.
- H. Have all hazardous conditions corrected and construction jobs stabilized.
- I. Ensure all vehicle repairs are made and final arrangements with vehicle repair facilities confirmed.
- J. Secure all material in the warehouse yard.
- K. Install Storm Shutters on all offices with the help of natural gas.
- L. Place plastic covering over all electronic or sensitive equipment and secure as necessary.

# Florida Public Utilities Company

## **Customer Care/Logistics**

- A. Arrange for additional petty cash and cash advances (if necessary).
- B. Arrange with telephone company additional lines if necessary.
- C. Review assignments with personnel.
- D. Ensure all computers are backed up and secured.
- E. Ensure all paperwork/documents are filed and secured properly.
- F. Provide control room with customer list, addresses, phone numbers and account numbers.
- G. Work with HR department and personnel from other divisions to provide assistance to employees and their families. Assistance may include work to prevent further damage to homes, care for children, to work with contractors or insurance companies and provide food/lodging/clothing, etc.
- H. Make definite arrangements for contract crew lodging.
- I. Make definite arrangements for food/water/drinks for all personnel.
- J. Purchase food supply for office/warehouse prior to storm (if the severity of the storm warrants this).
- K. Run the hurricane report fromECIS40.
- L. Make arrangements for an abundant supply of ice.
- M. Make definite arrangements for building security.
- N. Make definite arrangements for Division Office supplies (See Annual Preparations, Logistics Manager, and Item E.)
- O. Place plastic covering over all electronic or sensitive equipment and secure as necessary.

#### Engineering

- A. Provide distribution maps, procedures, etc. as necessary.
- B. Ensure OMS is backed up and operating.
- C. Begin constant monitoring customer outages.
- D. Review the contents of the damage assessment kits.

# 8. <u>INITIAL STAGE OF THE EMERGENCY</u>

# **Storm Director**

A. Activate the control room located Northeast Florida and constantly monitor the situation and restoration process.

- B. Keep internal media sources informed.
- C. Plan for additional services that will be needed during the restoration process to include damage assessment teams and mutual assistance crews.
- D. Communicate with Nassau County and State EOC on their operations schedule.

## **Electric Operations Manager**

- A. Be located at the Northeast Florida Operations Center (if possible) and constantly monitor the situation and restoration process.
- B. Coordinate overall restoration process.
- C. Begin analyzing trouble.
- D. Ensure employees that may be working are secure when wind gusts reach 35 miles per hour.
- E. Work with Storm Director to determine restoration requirements.

#### <u>Safety</u>

- A. Prepare for arrival of external crews. Onboarding of external crews as they arrive and time allows
- B. Prepare daily safety briefing to be delivered to internal and external crews.

#### **Propane/Natural Gas Operations Manager**

- A. Be located at the Northeast Florida Operations Center (if possible) and constantly monitor the situation and restoration process.
- B. Activate propane restoration process.
- C. Coordinate with Engineering.

# Customer Care/Logistics

- A. Be located at the Northeast Florida Operations Center (if possible) and coordinate the answering and processing of telephone calls.
- B. Coordinate assistance to employees and their families.
- C. Have food and drinks available to all employees.
- D. Work with Operations Manager and begin making final logistical arrangements for outside crews.

# Engineering

- A. Be located at the Northeast Florida Operations Center (if possible) and Continue processing customer outage system analysis and monitoring system to determine outage locations.
- B. Work with Operations Manager to determine restoration requirements.

C. Provide periodic outage updates to the PSC and Nassau County EOC.

# 9. LOCAL STORM MODE

# **Storm Director**

- A. Determine manpower requirement from information provided by Operations Director and Engineering Director. Contact the Executive Team concerning the situation, if possible, and advise whether or not the additional personnel should continue to the Northeast Florida office. If communications are not possible, the Vice President will determine whether or not the team should continue to Northeast Florida or will return home.
- B. Activate additional services that will be needed during the restoration process to include damage assessment teams and mutual assistance crews.
- C. Keep the media informed until such time that the Manager of Communications is available. At that time, the Manager of Communications will work with the Storm Director to keep the Media informed.

#### **Electric Operations Manager**

- A. Initiate damage assessment teams.
- B. Prioritize and schedule the restoration process.
- C. Make assignments and dispatch crews as necessary in order to ensure orderly and efficient restoration.
- D. Provide damage assessment to Storm Director.
- E. Provide updates to Storm Director as needed concerning restoration progress.
- F. Monitor manpower and equipment requirements and update Storm Director as required.
- G. Keep a list of all company and outside crews and their locations.
- H. Determine and assign appropriate manpower and equipment for each outage situation.
- I. Provide outside crews with all necessary information and safety information.
- J. Monitor storeroom and remote storeroom for proper operation and inventory. Analyze manpower requirements.
- K. Ensure all documents are completed prior to material leaving the storeroom and storeroom yard.
- L. Monitor and provide assistance in repairing vehicles.

#### **Safety**

- A. Daily safety briefings for internal and external crews. Onboarding of external crews as they arrive and time allows
- B. Incident investigations.

C. Field observations.

#### **Propane/Natural Gas Operations Manager**

- A. Make assignments and dispatch crews as necessary in order to ensure orderly and efficient restoration.
- B. Provide damage assessment to Storm Director.
- C. Provide updates to Storm Director as needed concerning restoration progress.
- D. Monitor manpower and equipment requirements and update Storm Director as required.
- E. Keep a list of all company and outside crews and their locations.
- F. Determine and assign appropriate manpower and equipment for each situation.
- G. Provide outside crews with all necessary information and safety information.
- L. Monitor and provide assistance in repairing vehicles.

#### **Customer Care/Logistics**

- A. Coordinate the answering of telephone calls.
- B. Provide petty cash and pay bills as needed.
- C. Contact critical customer if the restoration time will be lengthy.
- D. Provide assistance and serve as liaison to employees and their families.
- E. Make final and definite arrangements for lodging, fuel, meals, snacks, coffee, drinks, etc. for all employees and contract employees.
- F. Check-in all outside crews and log the personnel and equipment included. Provide assistance with lodging, meals, etc. and keep up with crew locations.
- G. Provide assistance as needed.
- H. Ensure building security firm is operating at office.
- I. Ensure Division office supplies are in place if needed.
- J. Ensure caters are available as needed.

#### Engineering

- A. Continue processing customer outage system analysis and monitoring the system to determine outage locations.
- B. Work with Storm Director and Operations Director to determine restoration requirements.
- C. Provide periodic outage updates to the PSC and Nassau County EOC.

## 10. <u>Operating Procedure</u>

These instructions are intended to give the employee working on the line information as to the general procedure to be followed under hurricane conditions.

The Electric Operations Manager and Safety will review these instructions with employees each year so that they may become familiar with the details. This should be done before June 1of each year.

# A. <u>BEFORE THE STORM</u>

All operating personnel should be instructed as to:

- 1. Safety and operating procedures to be followed during the storm.
- 2. Where and when materials and supplies will be available.
- 3. Their assigned areas and supervisor.
- 4. Any provisions made for feeding and lodging.
- 5. Work days will normally be two shifts. Each shift will consist of at least 12 hours but could be 16 hours.
- 6. The necessity of dividing line crews for clearing and minor repairs.
- 7. Internet and telephone communication procedures with appropriate list of telephone numbers.

## B. <u>DURING THE STORM</u>

1) First Stage - Repairing All Cases Reported

In order to reduce the over-all outage time to customers who may be interrupted at the beginning of the storm, trouble will be handled in a normal manner during the early stages.

#### 2) <u>Second Stage - Clearing Trouble From the Lines</u>

In order to maintain service to essential customers and feeders; when the volume of trouble increases to the point where large areas are interrupted, the Operations Manager will instruct crews to clear trouble from the lines without making repairs.

- a. Secondary or service wires may be cleared by cutting the conductor away from energized lines or by opening the transformer cut-out.
- b. Damaged primary conductors may be cleared by cutting and <u>rolling back</u>, a primary jumper or conductor at the cross arm or by sectionalizing switching, if applicable.
- 3) <u>Third Stage De-energizing Main Lines</u>

When the winds reach the point where it is no longer safe for crews to continue clearing operations all restoration activities will cease. The Operations Manager may instruct crews to de-energize main line feeders at substations if necessary to clear extremely hazardous conditions.

# C. <u>AFTER THE STORM</u>

The sequence of restoration after the winds subside to a safe working level will be as follows:

- 1) Check substations (Investigation) Asses Damages
  - a. Verify Transmission Service
  - b. Asses Equipment Damage

- c. Identify Feeder Lockouts
- 2) <u>Transmission Line Patrols</u>
  - a. FPL/JEA switch yards to Step-down
  - b. Step-down to AIP
  - c. Step-down to JLT
  - d. JLT to Eight Flags CHP and both mills

# 3) Isolate & Restore Process

This phase will be occurring immediately following the passing of the storm and the area has been designated as being safe. The Storm Director will identify feeders that are out and prioritizing them for the *isolate and restore* process based upon the priority feeder list and observed outages. Feeder patrols shall be performed by two man crews.

# 4) <u>Damage Assessments</u>

After the isolate and restore phase, the damage assessment (DA) teams will patrol the backbone portion of the feeders that *have been isolated and restored first*.

# 5) <u>Restoration Order</u>

- A. Feeders
- B. Undamaged primaries (fuse replacement only)
- C. Damaged primaries
- D. Secondary's
- E. Services
- F. Street lights

# 11. <u>TELEPHONE OPERATORS GUIDE</u>

During any major interruption our customers will naturally be concerned about falling wires, burning wires, defrosting refrigeration and even their daily routines in which electricity plays a part. The most important test we have is maintaining good relations during these emergencies. Those employees answering telephones must keep this in mind - be calm, pleasant and sympathetic with the customer and at the same time getting the necessary information needed to clear dangerous conditions and restore service as soon as possible, giving as much information to the customer that is available.

Outlined below is a suggested procedure to be used during three different phases of an interruption (Management will determine when Phase 1 begins and when movement to Phase 2 and 3 is indicated):

<u>Phase 1</u> - will be in effect until the time of the first trouble calls are worked or until it is evident that there is a widespread damage in that area.

<u>Phase 2</u> - will be in effect following Phase 1 until damage evaluations have been made and estimate of the time required for making major repairs.

<u>Phase 3</u> - will begin in an area where an estimate of the time required to make major repairs is available and will continue until all trouble is clear.

Your supervisor will advise you when conditions change from one phase to another in accordance with the routines outlined below:

## Suggested Answering Routine to be used by All Operators

#### Phase 1 - Early Trouble Prior to Extensive Damage

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What is your name, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"
    - 3) "We hope to be able to make repairs shortly. Thank you very much for calling."

# Phase 2 - Extensive Damage Evident But Estimate of Repair Time Not Available

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What your name is, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"
    - 3) "Our electric system has suffered considerable damage in your area and we haven't been able to make an estimate of the time required for repairs. Our crews are working now and if your service has not been restored by (morning/afternoon) please call again. Thank you."

#### Phase 3 - Damage Evaluated and Repair Time Estimated

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What your name is, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"

3) "We have crews working on the lines which serve your area and repairs should be made by (<u>time</u>). If your electricity us not on by that time, please call again. Thank you."

# Call Operators Guide (if needed)

Remember a properly handled telephone conversation with a customer can create an immeasurable amount of good will. When conversing with customers, keep the following points in mind:

1. Be courteous to each customer.

- 2. Give him/her as much information as is available of the restoration work.
- 3. Record each call and report the information vital to restoring the customer's service.
- 4. Handle each call as briefly as possible.
- 5. Thank the customer for calling.
- 6. Do not give the news media information. If a request for new information is received, record the name of the individual, news organization, telephone number and specific request. Inform the caller that a company representative will return the call. The information should be sent immediately to the Electric Operations Manager, Northeast Florida.
- 7. During an emergency condition, some customers will contact the company for reasons that do not pertain to the emergency. These calls should be recorded and the exact customer needs should be stated in the remarks column. These calls may include disconnections, reconnections, etc., or may be a personal call to an employee. After the contact has been recorded, the completed form should be given directly to the supervisor.

## Entering Outages

Each customer call will be recorded in the Outage Management System (OMS). The information entered should be entered accurately to ensure the system operates properly. The information entered will be stored as a permanent record and will be used to analyze the nature of the outages.

Should emergency situations come to your attention, please notify a supervisor. The method of this documentation will be determined.

# 12. <u>MEDIA/PUBLIC INFORMATION GUIDE</u>

In order to monitor all information given to media and public sources, only Upper Management, Northeast Florida, Manager of Communications or their designee will make press releases. If other employees are asked by media or public agencies for information, politely ask them to call (888) 843-5121 for the latest information.

# 13. <u>WAREHOUSE PROCEDURE</u>

During an emergency, material is vital to promptly and efficiently restore service to all customers. It is therefore important to monitor all stock levels to ensure adequate supplies are on-hand and if stock levels get low, be able to quickly order additional materials.

All material taken from the storeroom or remote storeroom will have the appropriate documentation completed before being removed from the stores area. The stores personnel will ensure this is followed.

Only authorized personnel should be in the stores area. Stores personnel will monitor those in the stores area to ensure compliance.

# 14. OFFICE PROCEDURE

This section will involve that information and other procedures necessary to ensure that the Office operation continues to operate during any emergency that may occur.

#### Annual

1. The Customer Service Manager will update information regarding the Office operations.

2 Information about the contingency plan will be updated by the Customer Service Manager each year.

## Prior to the Emergency

- 1. The Electric Operations Manager and Customer Service Manager will decide on the appropriate contingency plan necessary based on the emergency situation and begin contingency operations.
- 2. The Customer Service Manager will ensure that protective covering is available and installed on all Office equipment and server to ensure damage, if any, is minimized.

## After the Emergency

Contingency Plan #1

- 1. Due to the damage to the NE FL facilities, all mail and payments will go directly to the Northwest Florida office. This may not be the best alternative due to the issues with the USPS but is the most practical.
- 2. NW Florida personnel will process the mail using personnel as needed. Deposits will be made normally on a daily basis.
- 3. As soon as NE FL is capable of processing payments normally, payment processing will be handled normally.

## Contingency Plan #2

- 1. Due to the inability of the Corporate Office to accept updated information from the Office, it will be necessary to send payment information to a remote location.
- 2. NE FL will continue to process payments normally and make deposits accordingly.
- 3. The IT Director will provide NE FL with the appropriate directions on where to send the information concerning payments. This information will be added to this procedure when it becomes available.
- 4. All information on payments will be saved to a CD on a daily basis and stored in a safe place. If possible a hard copy of the information should also be printed and stored in a safe place

## 15. <u>Personnel Backup Contingencies</u>

Should the following personnel not be available during the emergencies, personnel in the positions listed below that position will fill in as needed.

<u>AVP of Electric</u> Director, Electric Operations

Director, Electric Operations Manager, Electric Operations

<u>Propane Operations Manager</u> Natural Gas Operations Supervisor

Engineering Technical Projects Manager

<u>Customer Care Director</u> Customer Care Manager

# 17. <u>EMERGENCY ASSISTANCE LIST</u> up-dated 2-4-15

| Company                             |              | Contact                               | Telephone                             | Available Resources                        |
|-------------------------------------|--------------|---------------------------------------|---------------------------------------|--|
| Southeast Electric Exchar           | ıge          | Scott Smith                           | (404) 233-1188<br>(404) 357-6800 cell | Crews                                      |
| FPU-Marianna                        | FPU-Marianna |                                       | (850)557-6490 cell                    | Crews, Tree Crews, Support                 |
| ATT                                 |              | Marvin Fisher                         | (904) 727-1544<br>(904) 403-1894      | Engineering                                |
|                                     |              | Scott Miller                          | (904) 407-2569<br>(904) 238-8263 cell | Engineering                                |
| Comcast                             |              | Mike Jackson                          | (904) 626-2400<br>1-855-962-852531HFC | Day contact<br>After hours answering serv. |
| Quantas/Dillard Smith               |              | Brian Imsand                          | (423) 490-2206                        | Crews                                      |
| Pike Electric Coop                  |              | Barry McCarthy                        | (912) 258-0645 cell                   | Crews                                      |
|                                     |              | bmccarty@pike.com                     | (850) 632-5769 home                   |  |
| Public Service Commissi             | on           | Robert Graves (EOC)                   | (850) 431- 7009                       | Primary contact                            |
|                                     |              |                                       | (850) 408-4757 cell                   |  |
| PSC                                 |              | Tom Ballinger                         | (850) 413-6680                        | Backup contact                             |
| Florida Electric Power Coordination | Group        | Stacy Dochoda                         | (813) 207-7960                        | Crews                                      |
| Mastec                              |              | Ron Martin VP                         | (850) 519-0639 cell                   | Crews                                      |
| C & C Powerline                     |              | Rick Springer<br>rick@ccpowerline.com | (904) 751-6020<br>(904) 759-4703      | Crews                                      |
| Davey                               | Davey        |                                       | (407) 383-0648 mobile                 | Tree Crews                                 |
| Asplundh                            |              | Ronnie Collins                        | (352) 256-2370 cell                   | Tree Crews                                 |
| FPL                                 | Dispatcher   |                                       | (904) 665-7152                        | Power Supply                               |
| LE Myers                            | RJ           |                                       | (407) 466-4663                        | Crews                                      |
| Vehicle Repairs Assistance          |              |                                       |                                       |  |
| Company                             | Cont         | act                                   | Telephone                             | Available Resources                        |
| Altec                               |              | y Knittel                             | (352) 303-3894                        | Service Technician Supervis                |
| Altec                               |              | y.knittle@altec.com                   | 1-877-462-5832                        |  |
| Altec                               | Danie        |                                       | (904) 404-6458                        | Mobile Service Tech                        |
| 1 1100                              | Dum          |                                       | (229) 375-9696                        |  |
| Dickinson Fleet                     | Aaro         | n                                     | (321)872-4187                         |  |
| First Coast Fab.                    |              | Wolf                                  | (904) 849-7426                        | Welding And Machine Worl                   |
| Maudlin International Trucks        |              |                                       | (904)509-0012                         | Truck repairs and Parts                    |
|                                     |              | Brozek                                | (904) 783-9822                        | Asst. Service Manager                      |
| Moeller                             |              | ge Moeller                            | (904) 415-2094                        | Vehicle Repairs and Weldin                 |
| Napa                                |              | Davis (Manager)                       | (904) 261-4044                        | Parts and Tools                            |
| Power Pro-Tech                      |              | y Evans                               | (800) 437 4474                        | Generator Repairs                          |
| RingPower                           |              | Kilgore                               | (904) 237-9400                        | Mobile/Vehicle Repairs                     |
| Generator & HVAC Service            |              | s Stamper                             | 1-800-437-4474                        |  |
|                                     |              | 1                                     | 321-274-8578                          | 780 Amelia Island Pkwy                     |
|                                     | Onsi         | te Emergency                          | 888-218-0298                          |  |
|                                     |              | ~ •                                   | 678-566-2439                          |  |
| Tiresoles                           |              | Shannon                               | (904) 378-0090                        | Main Office                                |
|                                     | Pat D        | Demianenko                            | Cell (904) 536-6460                   | Operations Manager                         |

# 18. EMERGENCY STOCK REQUIREMENTS

See next 4 pages

| Bin#    | Description                                    | Qty<br>Required |
|---------|--|-----------------|
| EWC04S  | WIRE,#4 CU SD SOLID POLY,TX RISER WIRE (SPOOL) | 1000            |
| EWC04   | WIRE,#4 BARE SOL CU SD OH (SPOOL)              | 1000            |
| EWA04S  | WIRE,#4 AL OH SOFT TIE (SPOOL)                 | 1000            |
| EWB010  | WIRE,1/0 BARE STD AL OH (AZUSA)                | 1000            |
| EWB040  | WIRE,4/0 BARE STD AL OH (ALLIANCE)             | 1000            |
| EWB396  | WIRE,396.4 BARE STD AL OH (CANTON)             | 1000            |
| EWB477  | WIRE,#477 BARE STD AL OH (COSMOS)              | 1000            |
| EWB636  | WIRE,#636 BARE STD AL OH (ORCHID)              | 1000            |
| EWD02   | WIRE,#2 AL DUPLEX OH (DOBERMAN/XLP)            | 1000            |
| EWD06   | WIRE,#6 AL DUPLEX OH (COIL)(SHEPPARD)          | 600             |
| EWT010C | WIRE,1/0 TRIPLEX OH (COIL)(GAMMARUS)           | 1000            |
| EWT010R | WIRE,1/0 TRIPLEX OH (REEL)(GAMMARUS)           | 1000            |
| EWT040  | WIRE,4/0 STD TRIPLEX AL OH (LAPAS)             | 500             |
| EWQ01   | WIRE,1/0 QUAD AL OH (SHETLAND)                 | 200             |
| EWG38   | WIRE,GUY 3/8 BEZINAL COATED                    | 1000            |
| EWA02   | WIRE,#2 AL URD 15KV                            | 3000            |
| EW040   | WIRE,4/0 INS STD AL URD 15KV                   | 6000            |
| EW750   | WIRE,750MCM AL URD 15 KV                       | 3000            |
| EW1000  | WIRE, 1000KCM AL URD 15KV                      | 1000            |
| EFAS510 | ANCHOR SCREW 5' X 10"                          | 10              |
| EFAS810 | ANCHOR SCREW 8' X 10"                          | 10              |
| EARL9   | ARRESTOR,LIGHTNING,SILICONE 9 KV               | 20              |
| EARL69  | ARRESTOR, LIGHTNING, PROTECTA*LITE,MCOV 69KV   | 20              |
| EBRA    | BRACKET MOUNT AL "SINGLE"                      | 10              |
| EBRA1   | BRACKET MOUNT AL "T"                           | 10              |
| EBRF15  | BRACKET, SINGLE INSUL, FIBERGLASS, HORIZ       | 20              |
| EBRAHD  | BRACKET, MOUNTING, AL HEAVY DUTY               | 10              |
| ECGR63  | CLAMP,GROUND ROD 5/8"                          | 20              |
| EFCGR63 | COUPLING GROUND ROD 5/8, CU CLAD(NON-THREAD)   | 50              |
| ECHTC7  | COVER,H-TAP #C7                                | 200             |
| ECOSS   | CUTOUT,SILICONE,SEACOAST                       | 50              |
| ECOF200 | FUSEHOLDER,200A CUTOUT                         | 20              |
| ECOF100 | FUSEHOLDER,100A CUTOUT                         | 10              |
| EGA336  | GUARD,LINE 336.4 MCM AL OR ACSR                | 30              |

| EGA477  | GUARD,LINE 477 MCM AL OR ACSR                | 30  |
|---------|--|-----|
| EGSQ    | GUARD,SQUIRREL                               | 10  |
| EIS35   | INSULATOR, UPRIGHT 35 KV SILICONE            | 30  |
| EIH35   | INSULATOR,HORIZ MOUNT 35KV SILICONE INT BASE | 60  |
| EISS25  | INSULATOR, SUSPENSION SILICONE 25 KV         | 20  |
| EIGB8   | INSULATOR,GUY STRAIN 8 FT                    | 10  |
| EIGB8HD | INSULATOR,GUY STRAIN 8 FT 36000 LB           | 10  |
| EMBRSP  | MOUNT,TX,BRACKET, SINGLE PHASE               | 10  |
| EMCL4   | MOUNT,TX CLUSTER AL ABOVE 3-50KVA            | 4   |
| EPW304  | POLE,30 CL 4                                 | 15  |
| EPW351  | POLE,35 CL 1                                 | 10  |
| EPW401  | POLE,40 CL 1                                 | 20  |
| EPW451  | POLE,45 CL 1                                 | 20  |
| EPW45H1 | POLE,45 CL H1                                | 3   |
| EPW501  | POLE,50 CL 1                                 | 3   |
| EPW55H1 | POLE,55 CLH1                                 | 1   |
| EPW70H3 | POLE,70 CLH3                                 | 5   |
| ERG638  | ROD-GROUND COPPER CLAD 5/8" X 8' NON-THRD    | 30  |
| EESU    | SWITCH,UNDERSLUNG                            | 6   |
| ECLDE   | CLAMP, DEADEND, #6-#4 AL SERVICE WEDGE       | 20  |
| ECLDE2  | CLAMP, DEADEND, #2-1/0 AL SERVICE WEDGE      | 40  |
| ECLDE4  | CLAMP,DEADEND,4/0 AL SERVICE WEDGE           | 40  |
| ЕСОНА   | CONN,H-TYPE (WR9)                            | 50  |
| ЕСОНА   | CONN,H-TYPE (WR159)                          | 100 |
| ЕСОНА   | CONN,H-TYPE (WR189)                          | 100 |
| ЕСОНА   | CONN,H-TYPE (WR259)                          | 100 |
| ECOHA   | CONN,H-TYPE (WR379)                          | 100 |
| ЕСОНА   | CONN,H-TYPE (WR399)                          | 100 |
| ЕСОНА   | CONN,H-TYPE (WR419)                          | 100 |
| ЕСОНА   | CONN,H-TYPE (NB500-40)                       | 30  |
| ЕСОНА   | CONN,H-TYPE (NB500)                          | 30  |
| ECOVA4  | CONN,VISE ACTION #4 CU                       | 100 |
| ECOVA2  | CONN,VISE ACTION #2 SOL CU                   | 100 |
| ECOVA2  | CONN,VISE ACTION -#2 STD CU                  | 100 |
| ECOVA10 | CONNECT-VISE ACTION 1/0 STD CU               | 100 |
| ECOVA40 | CONN,VISE ACTION -4/0 STD CU                 | 100 |
| ECOFS4  | CONN,URD FLOOD SEAL 4 POSITION               | 30  |
| ECOOH6  | CONN,TX,OH,6 POSITION                        | 25  |

| EDEC02    | DEADEND,AUTOMATIC SS #2 STD CU               | 20  |
|-----------|--|-----|
| EDEC010   | DEADEND,AUTOMATIC SS 1/0 STD CU              | 20  |
| EDEC020   | DEADEND,AUTOMATIC SS 2/0 STD CU              | 10  |
| EDEC040   | DEADEND,AUTOMATIC SS 4/0 STD CU              | 20  |
| EDEC477   | DEADEND,FULL TENSION,COMP477 AL W/2 HOLE LUG | 15  |
| EDEC636   | DEADEND, FULL TENSION, COMPRESSION 636       | 15  |
| ELUGT0202 | LUG,TERM,URD 2/0 AL 2-HOLE                   | 50  |
| ELUGT0401 | LUG,TERM,URD 4/0 AL 1-HOLE                   | 50  |
| ESLA8CU   | SLEEVE,AUTO SPLICE -#6 SOL CU                | 20  |
| ESLA6CU   | SLEEVE,AUTO SPLICE -#4 SOL CU                | 20  |
| ESLA4CU   | SLEEVE,AUTO SPLICE -2 SOL CU                 | 20  |
| ESLA2CU   | SLEEVE,AUTO SPLICE #2 STD CU                 | 20  |
| ESLA10CU  | SLEEVE,AUTO SPLICE 1/0 CU                    | 20  |
| ESLA40CU  | SLEEVE,AUTO SPLICE 4/0 STR CU                | 20  |
| ESLS020   | SLEEVE,SERVICE 2/0-2/0 AL/ACSR (IKL47)       | 100 |
| ESLS040   | SLEEVE,SERVICE 4/0-1/0 AL (IKL66)            | 100 |
| ESLS040   | SLEEVE,SERVICE 4/0-2/0 AL (IKL67)            | 100 |
| ESLS040   | SLEEVE,SERVICE 4/0-4/0 AL (IKL69)            | 100 |
| ESLS350   | SLEEVE,SERVICE 350-350 AL                    | 50  |
| ESLT2A    | SLEEVE,FULL TENSION #2 STD AL                | 20  |
| ESLTE10A  | SLEEVE,SERVICE FULL TENSION 1/0 STD AL       | 20  |
| ESLTE40   | SLEEVE, PRIMARY FULL TENSION 4/0 AL          | 20  |
| ESLTE396  | SLEEVE, PRIMARY FULL TENSION 397.5(396.4)    | 20  |
| ESLTE477  | SLEEVE, PRIMARY FULL TENSION 477 AL          | 20  |
| ESLTE636  | SLEEVE, PRIMARY FULL TENSION 636 AAC         | 20  |
| ESP2AL    | SPLICE KIT,URD 15KV #2 STD AL                | 12  |
| ESP40AL   | SPLICE KIT,URD 15KV-4/0 AL                   | 12  |
| ESKC1000  | SPLICE KIT, 500-1000                         | 12  |
| EPT02A    | TERMINAL,PIN #2STD AL                        | 50  |
| EPT010A   | TERMINAL,PIN 1/0 STD AL                      | 50  |
| EPT020A   | TERMINAL,PIN 2/0 STD AL                      | 50  |
| EPT040A   | TERMINAL,PIN 4/0 STD AL                      | 50  |
| EPT350A   | TERMINAL,PIN 350 AL                          | 10  |
| EPT500A   | TERMINAL,PIN 500 AL                          | 10  |
| EFULI007  | FUSE LINK 7 AMP QA                           | 75  |
| EFULI015  | FUSE LINK 15 AMP QA                          | 50  |
| EFULI025  | FUSE LINK 25 AMP QA                          | 50  |
| EFULI030  | FUSE LINK 30 AMP QA                          | 75  |

| EFULI050   | FUSE LINK 50 AMP QA                            | 75  |
|------------|--|-----|
| EFULI075   | FUSE LINK 75 AMP QA                            | 25  |
| EFULI100   | FUSE LINK 100 AMP QA                           | 25  |
| EKTA2      | KITS,TERM OH FOR #2 AL POTHEAD                 | 20  |
| EKTA250    | KIT,TERM SILICONE FOR #2 AL -4/0 URD           | 10  |
| EKTA40     | KIT,TERM OH,SILICONE FOR 4/0 AL POTHEAD        | 20  |
| ELBT2      | ELBOW,LOAD BREAK TERMINATOR #2 W/TEST POINT    | 20  |
| ELBT40     | TERMINATOR,LOAD BREAK 4/0 W/TEST POINT         | 20  |
| EVSPE      | VAULT,SECONDARY,PEDESTAL                       | 6   |
| N/S        | #2 Extended Repair Elbows                      | 12  |
| N/S        | #2/0 Extended Repair Elbows                    | 12  |
| N/S        | #4/0 Extended Repair Elbows                    | 12  |
| NS 35-1185 | ATTACHMENT, DOWN GUY                           | 20  |
| NS 35-1186 | ATTACHMENT,DOWN GUY (POLE PLATE) WOOD<br>35MLB | 10  |
| NS 35-1187 | ATTACHMENT, DOWN GUY CONCRETE 35MLB            | 10  |
| NS 35-1350 | BOLT,DOUBLE ARMING,GALV 5/8 X 18               | 30  |
| NS 35-1360 | BOLT,DOUBLE ARMING,GALV 5/8 X 20               | 20  |
| NS 35-1430 | BOLT,DOUBLE ARMING,GALV 3/4 X 22               | 20  |
| NS 35-1480 | BOLT,DOUBLE UPSET,GALV 5/8 X 12                | 20  |
| NS 35-1640 | BOLT,MACHINE,GALV 5/8 X 10                     | 100 |
| NS 35-1650 | BOLT,MACHINE,GALV 5/8 X 12                     | 100 |
| NS 35-1660 | BOLT,MACHINE,GALV 5/8 X 14                     | 100 |
| NS 35-1800 | BOLT,MACHINE,GALV 3/4 X 20                     | 50  |
| NS 35-1810 | BOLT,MACHINE,GALV 3/4 X 22                     | 50  |
| NS 35-1820 | BOLT,MACHINE,GALV 3/4 X 24                     | 50  |
| NS 35-1850 | EYELET, 3/4" HOLE                              | 50  |
| NS 35-2245 | CLAMP SUPPORT FOR #2,1/0,4/0 CU                | 50  |
| NS 35-2255 | CLAMP SUPPORT FOR #2,1/0,4/0 AL                | 50  |
| NS 35-2265 | CLAMP SUPPORT 394.6-477 AL                     | 50  |
| NS 35-2375 | CLEVIS,SECONDARY EXTENSION                     | 20  |
| NS 35-2780 | EYELET, THIMBLE ANGLE 5/8"                     | 20  |
| NS 35-2895 | GUY GRIP,3/8", BEZINAL COATED (352895)         | 100 |
| NS 35-3130 | LAG SCREW - 1/2"X4" GALV.                      | 150 |
| NS 35-3290 | NUT EYE,GALV 5/8                               | 30  |
| NS 35-3300 | NUT EYE,GALV 3/4                               | 30  |
| NS 35-3320 | NUT,THIMBLE EYE 5/8                            | 20  |
| NS 35-3881 | STRAP,CONDUIT OR PIPE 2" STAINLESS STEEL       | 40  |
| NS 35-3886 | STRAP,CONDUIT OR PIPE 3" STAINLESS STEEL       | 40  |

| NS 35-3970 | TAPE,SCOTCH #23-2                      | 20  |
|------------|--|-----|
| NS 35-4020 | TAPE,VINYL                             | 50  |
| NS 35-4030 | THIMBLE,GUY WIRE 3/8                   | 200 |
| NS 35-4335 | WASHER,DOUBLE COIL 5/8"                | 200 |
| NS         | DEADEND, #4-4/0 MACHANICAL             | 50  |
| NS         | DEADEND, 4/0-600 MACHANICAL            | 50  |
|            | Transformer, Pad Mount 100 KVA 120/240 | 7   |
|            | Transformer, Pad Mount 50 KVA 120/240  | 7   |
|            | Transformer, Pad Mount 75 KVA 120/240  | 7   |
|            | Transformer, Pad Mount 167 KVA 120/240 | 2   |
|            | Transformer, Pad Mount 150 KVA 120/208 | 4   |
|            | Transformer, Pad Mount 300 KVA 120/208 | 3   |
|            | Transformer, Pad Mount 500 KVA 120/208 | 3   |
|            | Transformer, Pad Mount 150 KVA 277/480 | 3   |
|            | Transformer, Pad Mount 300 KVA 277/480 | 3   |
|            | Transformer, Pad Mount 500 KVA 277/480 | 3   |

## 20. CRITICAL CUSTOMER LIST

#### A. Hospitals, Clinics, Nursing Homes

| Name                            | Address                      | Telephone                | Contact Person      |
|---------------------------------|------------------------------|--------------------------|---------------------|
| Baptist Medical Center - Nassau | 1700 East Lime St            | 321-3500 (main)          | Wayne Arnold        |
| Care Centers of Nassau          | 95146 Hendrix                | 261-5518                 | Patrick Kennedy     |
|                                 |                              | 753-3575 Home            |                     |
| Quality Health                  | 1625 Lime St                 | 261-0771                 | Steve Jordan        |
|                                 |                              | 225-2351 (Answer service | )                   |
| DaVita (Dialysis)               | 1525 Lime St, Ste 120        | 491-1998                 | Jackie Pelfrey      |
| Nassau County Health Dept       | 30 South 4 <sup>th</sup> St. | 548-1860 or 548-1800     |                     |
| Savannah Grand                  | 1900 Amelia Trace Ct.        | 321-0898 Cell 206-2774   | Renee Stoffel       |
| Home 321-3478                   |                              |                          |                     |
| Osprey Village                  | 76 Osprey Village Dr.        | 277-3337 x11 Cell 75     | 3-2435 Dana Sargent |
|                                 |                              |                          |                     |
| Jane Adams House                | 1550 Nectarine St            | 261-9494 Cell 583-3526   | 5 Jeanett Adams     |

## B. Public Utilities & Major Resorts

| Name                     | Address                             | Tele              | ephone          | Contact Person  |
|--------------------------|-------------------------------------|-------------------|-----------------|-----------------|
| Fernandina Waste Water/W | Vater 1007 South 5 <sup>th</sup> St | 277-7380 Ext. 224 | 753-1412 (cell) | John Mandrick   |
| Nassau Utilities         | 5390 First Coast Hwy                | 530-6450          | 753-2989        | Danny White     |
|                          |                                     | 261-9452 After Ho | ours            |                 |
| JEA Dispatch             |                                     | 904-665-7152      |                 |                 |
| Florida Power and Light  |                                     | (305) 442-5739    |                 | Dispatch Number |
| Comcast                  |                                     | 904-374-7600      |                 |                 |
| ATT                      | 1910 S. 8 <sup>th</sup> St          | 727-1544 (904) 4  | 03-1894         | Marvin Fisher   |
|                          |                                     | 407-2569 (904) 23 | 8-8263(cell)    | Scott Miller    |
| AIP – Security           |                                     | 277-5914          | 491-4445        | Alan Barker     |
| Ritz Carlton             |                                     | 277-1100          | 491-6799        | Will Wiest      |

## C. Major Disaster Shelters & Hotels

| Name                                       | Address               | Telephone | Contact Person |
|--|-----------------------|-----------|----------------|
| Yulee Elementary                           | 86083 Felmore Rd.     | 225-5192  |                |
| Yulee High School                          | 85375 Miner Rd.       | 225-8641  |                |
| Yulee Middle School                        | 85439 Miner Rd.       | 491-7944  |                |
| Yulee Primary                              | Goodbread Road        | 491-7945  |                |
| Hilliard Schools                           |                       |           |                |
| Callahan Schools                           |                       |           |                |
| Bryceville Elementary School               |                       |           |                |
| See page 34 of this document for a storm s | helter map.           |           |                |
| Nassau Holiday                             | Hwy 17, Yulee         | 225-2397  |                |
| Amelia Hotel                               | 1997 So. Fletcher Ave | 261-5735  |                |
| Amelia South Condo's                       | 3350 So. Fletcher Ave | 261-7991  |                |
| Beachside Motel                            | 3172 So. Fletcher Ave | 261-4236  |                |
| Elizabeth Pointe Lodge                     | 98 So. Fletcher Ave.  | 277-4851  |                |
| Days Inn                                   | 2707 Sadler Road      | 277-2300  |                |
| Hampton Inn                                | 2549 Sadler Road      | 321-1111  |                |
| Residence Inn                              | 2301 Sadler Road      | 2772440   |                |
| Holiday Inn                                | 76071 Sidney Place    | 849-0200  |                |
| Hampton Inn (downtown)                     | 19 South 2nd St       | 491-4911  |                |

#### D. Municipal and State Emergency Services

| Name                              | Address      | Telephone      | Contact Person |
|-----------------------------------|--------------|----------------|----------------|
| Florida Highway Patrol            | Jacksonville | 695-4115       | Keith Gaston   |
| American Red Cross                | NE Chapter   | 358-8091       |                |
| Fernandina Police Dept.           | Lime St.     | 277-7342       | Dispatcher     |
| Dept. of Transportation           | Jacksonville | 360.5400       |                |
| HAZ MAT – Chemtrec (free hotline) |              | 800-424-9300   |                |
| Chlorine Institute                |              | 1-703-741-5760 |                |

#### E. Communication and Broadcasting Services

| Name       | Address |      | Telephone   | Contact Person |
|------------|---------|------|-------------|----------------|
| WOKV Radio |         |      | 245-8866    |                |
|            |         | Cell | 718-7503    |                |
| WQIK Radio |         |      | 636-0507    |                |
| WAPE Radio |         |      | 245-8500/01 |                |

#### F. Major Food Storage/Processing Facilities

| Name                | Address            | Telephone | Contact Person |
|---------------------|--------------------|-----------|----------------|
| Publix Super Market | 1421 So. 14th St   | 277-4911  |                |
| Winn Dixie Stores   | 1722 So. 8th St    | 277-2539  |                |
| Hedges Meat Shoppe  | Hwy 17 South       | 225-9709  |                |
| Winn Dixie (Yulee)  | 22 Lofton Sq       | 261-6100  |                |
| Harris Teeter       | 4800 1st Coast Hwy | 491-1213  |                |
| Super Wal Mart      | SR 200             | 261-9410  |                |

#### G. Correction Facilities

| Name         | Address        | Telephone | Contact Person |
|--------------|----------------|-----------|----------------|
| Nassau House | 1781 Lisa Ave. | 277-4244  |                |

#### H. Airports

| Name                 | Address      | Telephone | Contact Person |
|----------------------|--------------|-----------|----------------|
| McGill Aviation Inc. | F.B. Airport | 261-7890  | Sean McGill    |

#### G. News Media

| Name                   | Address | Telephone | Contact Person |
|------------------------|---------|-----------|----------------|
| Fernandina News Leader |         | 261-3696  | Fax 261-3698   |

## 21. <u>Emergency Telephone List</u>

| A. | <u>Telephone Repair</u>                       |                     |                                  |
|----|---|---------------------|----------------------------------|
|    | AT & T  | (904) 403-1894      | Marvin Fisher                    |
|    |   | (904) 238-8263      | Scott Miller                     |
|    | Comcast (Cabling & repair)                    | (904) 626-2400 cell | (Day) Mike Jackson               |
| р  |   | 855-962-8525        | (After hours)                    |
| В. | <u>Cell Phones</u><br>IT                      | (302) 363-7112      | Ed Rees                          |
|    | 11  | (302) 303-7112      | Ed Rees                          |
| C. | Jacksonville Electric Authority               | 800-683-5542        |                                  |
|    | Dispatcher                                    | (904) 665-4806      |                                  |
|    | Dispatcher Supervisor                         | (904) 887-1811      | Matt Seeley                      |
|    | Storm Coordinator                             | (904) 665-7145      | Garry Baker                      |
|    |   | (904) 665-7110      | Ricky Erixton                    |
|    | SOC (System Operation Center)                 | (904) 665-4806      |                                  |
| Б  | SWITCHING ACTIVITY (all)                      | (904) 277-1478      | TURBINE OPERATOR                 |
| D. | Emergency Management                          | (904)548-4980       | Dill Esten                       |
|    | Nassau County                                 | (904)348-4980       | Bill Estep                       |
| E. | <u>Law Enforcement - 911</u>                  |                     |                                  |
|    | Nassau County                                 | 225-0331            | Sheriff – Bill Leeper            |
|    | F.B. City                                     | 277-7342            | City Police Chief – James Hurley |
| F. | Ambulance - 911                               |                     |                                  |
| G. | <u>News Media</u>                             |                     |                                  |
|    | WJWB-Channel 17 Jacksonville                  | 641-1700            | Fax 642-7201                     |
|    | WJXT-Channel 4 Jacksonville                   | 399-4000            | Fax 393-9822                     |
|    | WTLV-Channel 12 Jacksonville                  | 633-8808            | Fax 633-8899                     |
|    | WTEV-Channel 47 Jacksonville                  | 564-1599            | Fax 642-5665                     |
| H. | Nessey County Officials                       |                     |                                  |
| п. | <u>Nassau County Officials</u><br>Billy Estep | 548-0900            | Nassau County EOC Director       |
|    | Michael Mullin - County Manager               | 530-6010            | Nassau County                    |
|    | Nassau County Office                          | 530-6010            |                                  |
|    | Aaron Bell                                    |                     | County Commissioner              |
|    | Thomas Ford                                   |                     | County Commissioner              |
|    | Danny Leeper                                  |                     | County Commissioner              |
|    | Justin Taylor                                 |                     | County Commissioner              |
|    | Pat Edwards                                   |                     | County Commissioner              |
| I. | Fernandina Beach Officials                    |                     |                                  |
| 1. | Johnny Miller – City Mayor                    | (W) 556-3299        |                                  |
|    | Dale Martin - City Manager                    | (W) 277-7305 o      | r 310-3100                       |
|    | Ty Silcox - City Fire Chief                   | (W) 904-277-73      |                                  |
|    | James Hurley - City Police Chief              | (W) 277-7344        |                                  |
|    | Johnny Miller                                 | 556-3299            | Mayor (City FB)                  |
|    | Philip Chapman III                            | 624-5590            | City Commissioner                |
|    | Ronald Ross                                   | 410-394-0220        | City Commissioner                |
|    | Len Kreger                                    | 432-8389            | Vice Mayor                       |
|    | Mike Lednovich                                | 502-0650            | City Commissioner                |

| J. | Generator Repair                          |
|----|---|
|    | See Emergency Assistance List Section 17. |

| К. | <u>FPUC NE Substations</u>       |                   |
|----|----------------------------------|-------------------|
|    | Stepdown                         | 277-1974          |
|    | JL Terry                         | 277-1973          |
|    | AIP                              | 277-1975          |
| L. | <u>Florida Power &amp; Light</u> |                   |
|    | Northern Area Dispatch           | 305-442-5739      |
|    | Tom Gwaltney                     | 954-439-0112 Cell |

## 22. LOGISTICS

| Motels:                       |                      |                                   |   |
|-------------------------------|----------------------|-----------------------------------|---|
| Amelia Hotel                  | 261-5735             | 1997 South Fletcher Av            | e.                                      |
| Nassau Holiday Motel          | 225-2397             | U.S. 17 South                     | -,                                      |
| Amelia South Condo.           | 261-7991             | 3350 So. Fletcher Ave.            |   |
| Elizabeth Point Lodge         | 277-4851             | 98 So. Fletcher Ave.              |   |
| Days Inn                      | 277-2300             | 2707 Sadler Road                  |   |
| Hampton Inn                   | 321-1111             | 2630 Sadler Road                  |   |
| Hampton Inn Downtown          | 491-4911             | 19 South 2 <sup>nd</sup> Street   |   |
| Comfort Inn                   | 261-0193             | 2801 Atlantic Ave.                |   |
| Country Inn                   | 225-5855             | 462577 SR 200                     |   |
| Residence Inn                 | 277-2440             | 2301 Sadler                       |   |
| Restaurants:                  |                      |                                   |   |
| Baxter's                      | 277-4503             | 4919 1 <sup>st</sup> Coast Hwy    |   |
| Beach Diner                   | 310-3748             | 2006 South 8 <sup>th</sup> Street |   |
| Florida House                 | 491-3322             | 22 South 3 <sup>rd</sup> Street   |   |
| Chili's                       | 225-8666             | SR 200                            |   |
|                               |                      |                                   |   |
| Food Stores:                  |                      |                                   |   |
| Harris Teeter's               | 491-1213             |                                   |   |
| Publix                        | 277-4911             |                                   |   |
| Winn Dixie                    | 277-2539             |                                   |   |
| Winn Dixie (Yulee)            | 261-6100             |                                   |   |
| Super Walmart                 | 261-9410             |                                   |   |
| Cellular Phones:              |                      |                                   |   |
| Verizon c                     | call IT              |                                   |   |
| Water Supply:                 |                      | Ice Supply:                       |   |
| City of Fernandina Water      |                      | Winn Dixie                        | 277-2539                                |
| Nantze Springs Water Co. 800- | 239-7873             | Publix                            | 277-4911                                |
|                               | 6 (Island) or 261-94 |                                   |   |
| Service Stations:             |                      | Vehicle Repair Faciliti           | es:                                     |
|                               | 6563                 | Continental Auto Truck            |   |
|                               |                      | Altec Industries Inc              | (561) 686-8550 West Palm Beach          |
|                               |                      |                                   |   |
| Rental Equipment              |                      |                                   |   |
| United Rental (904            | )404-7471            |                                   |   |
| Flashlights (20 w/batteries): |                      | Quantity on hand                  |   |
| Portable AM/FM Radios w/ba    | tteries:             | Walmart (Additional               | ) 261-5306 (Island) or 261-9410 (Yulee) |
|                               |                      |                                   | ,                                       |

## 23. <u>SERVICE PLAN TO SUPPLY POWER TO FPU OFFICES</u>

During an emergency it is imperative that power be restored to the office/complexes located at 780 Amelia Island Parkway as soon as possible. Also of the utmost importance is to ensure the feeder to the building is maintained in optimum working order at all times.

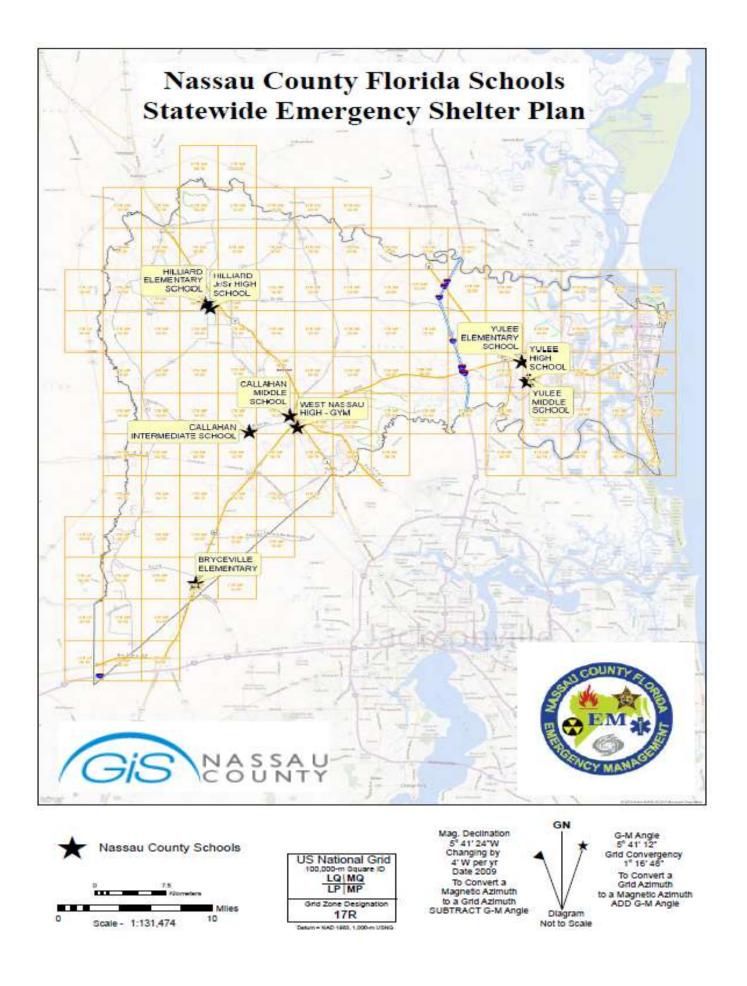
The Operations Center at 780 Amelia Island Pkwy is served from an underground feeder #312 from Stepdown Substation. If power is lost, a natural gas powered total building generator will provide backup service until the problem is resolved. If required, All down-stream switches should be opened so that power may be restored to the office as soon as possible.

## 24. <u>POST-STORM DATA COLLECTION AND FORENSIC ANALYSIS</u>

FPUC will employ contractors to perform both the post-storm data collection and forensics analysis should a significant storm occur. The contractors will be provided with system mapping information and requested to collect post-storm damage information on areas as defined by the company. The areas will be selected in order to survey the areas in which the most damage occurs in order to gain the most information.

Damage will be identified so that the cause of the outage is identified as it relates to trees, wind, debris, conductor failure, pole failure, etc. which will be identified on the map. Depending upon the degree of damage, forensic analysis may be collected during this process. However, if the damage is extensive the forensics analysis will be performed as soon as possible after the post-storm data collection is completed.

Data collected during the collection process will be analyzed after completion of all storm related work has been completed. This analysis will summarize the type damage and failure modes of outages in order to determine methods to improve reliability in the future.







# NORTHWEST FLORIDA DIVISION

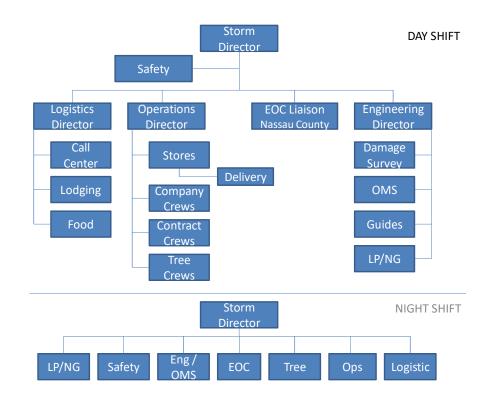
# 2020 EMERGENCY PROCEDURES Natural Disaster & Recovery

## 1. <u>OBJECTIVE</u>

The primary objective of the procedure is to provide guidelines under which the Northwest Florida Division of Florida Public Utilities Company will operate in emergency conditions. The following objectives will ensure orderly and efficient service restoration.

- A. The <u>safety</u> of employees, contractors and the general public will have the highest priority.
- B. Early damage assessment is required in order to develop manpower requirements.
- C. Request additional manpower as soon as conditions and information indicate the need.
- D. Provide for orderly restoration activities in order to provide efficient and rapid restoration.
- E. Provide all logistical needs for employees and contractors.
- F. Provide ongoing preparation of our employees, buildings, equipment and support function in advance of an emergency.
- G. Provide support and additional resources for employees and their families should they need assistance to address injury or damage as a result of the emergency situation.

## 2. ORGANIZATIONAL CHART



## \*NOTE: NIGHT SHIFT MAY OR MAY NOT BE UTILIZED

## 3. <u>EMERGENCY PERSONNEL POLICY</u>

As a public utility we provide essential services for our customers and the general public. Therefore, the purpose of the Company's Emergency Personnel Policy is to encourage employees to make every reasonable effort to report to work. Each employee performs an essential role in the Company's operation and it's important that you report to duty as scheduled during an emergency. Restoring and maintaining services after a major storm is a difficult job and requires everyone's best efforts. Of necessity, employees may be required to assist other departments or perform functions outside of their normal daily work assignment. It will take every employee's cooperation before, during and after an emergency.

A. If you are on the job when the storm approaches, your supervisor will inform you of your storm assignment. Employees not directly involved in maintaining services <u>may</u> be released to go home before the storm threatens safe travel.

- B. If you are off-duty, call your immediate supervisor as soon as possible after an emergency condition is announced. An Emergency Condition Warning is usually given within 24 hours of occurrence. Your supervisor will inform you as to where and when you'll be needed prior to, during, and after the storm. If your supervisor is not available call his/her immediate supervisor or the Northwest Florida Office. This requirement applies to all Northwest division employees when an emergency threatens any of the Company's service area.
- C. During an emergency, the company will maintain a small workforce to monitor the emergency and address emergency conditions that may exists. This workforce will be located at a safe location and work closely with the Counties served EOCs. The company will determine what workforce is required and will consider utilizing those employees who volunteer for this type of work. Local Management will form the basis of this group. Other employees will be included based on the severity and timing of the emergency.
- D. All employees are strongly encouraged to have a personal evacuation plan and know what to do during an emergency condition that impacts the service area. The plan should take into consideration the magnitude of the emergency and the significance of the actions that may be necessary. The plan should ensure that the employee and their family are safely out of harm's way while still allowing the employee to respond as required when the emergency conditions subside to a manageable level.
- E. The company plans to move much of the transportation equipment to separate locations to ensure one event does not cause damage to the fleet. Employees are encouraged to volunteer to take certain vehicles with them prior to the emergency and use them to return to work as soon as possible after the emergency conditions subside to a manageable level. The company will determine how the transportation equipment is distributed among the volunteer employees.
- F. After the emergency passes, all personnel not on duty during the storm will report as soon as possible to their supervisor or his/her designate by telephone. In the event the telephones are not working or you are unable to communicate with your supervisor or the company office, report in person to your regular work station as soon as possible during daylight hours.
- G. EMPLOYEES ARE TO MAKE EVERY <u>REASONABLE</u> EFFORT TO REPORT TO WORK. IT'S UNDERSTOOD THAT THERE WILL BE INSTANCES WHERE EMPLOYEES JUST CAN'T GET TO WORK. IF YOU ARE UNABLE TO REPORT TO WORK MAKE EVERY EFFORT TO CONTACT YOUR SUPERVISOR TO REPORT YOUR ABSENCE.
- H. Personal emergencies are a common result of a major hurricane, but unless approved by your Supervisor, will not be acceptable as an excuse for not reporting to work. Evacuation from a hurricane threatened area to a remote location from which you cannot promptly return to your home is also not acceptable as a reason for not reporting to work.
- I. The Company will endeavor to provide assistance to employees and their immediate families should an employee need or request assistance.
- J. Unless emergency conditions warrant, employees will not be required to work in excess of sixteen (16) consecutive hours.

The success of the emergency plan requires the cooperation and efforts of all of our employees. Employees may be required to return from their vacation or Company sponsored travel. Therefore, it will be the responsibility of each supervisor to determine the location of each of their employees on Company sponsored trips to facilitate their recall if conditions warrant their return when the emergency plan is implemented. Employees who are on vacation will notify, by telephone, their supervisors of their location and availability when an emergency threatens to strike our service area. Supervisors will consult with their department head to determine the feasibility and need to recall employees from vacation or Company sponsored trips. All employees are essential for the continued operation of the Company obligations and Company objectives.

The Company will develop information which will assist employees and their families before, during and after the storm. The General Manager, Northwest Florida will be responsible for obtaining the information and communicating this information to the employees. The Company will attempt to provide assistance to the employees and their families during emergency situations if needed.

## 4. <u>GENERAL RESTORATION GUIDELINES</u>

These general guidelines are issued to provide overall guidance as to emergency system restoration activities. These guidelines will be followed as much as practical in emergencies caused by hurricanes, tornadoes, ice storms and other natural disasters.

These guidelines are not intended to nor will they put in jeopardy the <u>safety</u> of any employee or their family. Dependent upon the intensity of the storm as determined by the company's management, employees will be required to report to work as instructed. If the intensity of the storm is such that weather conditions will be extremely severe, only a skeleton crew will be present at the work location. All others will report for duty as soon as conditions subside to a reasonable level. Those on vacation will be expected to report for duty.

The Northwest Florida office building was designed to withstand 100 mph sustained winds. If winds are expected to significantly exceed these ratings, alternative locations will be identified and restoration activities will be relocated to an alternate Facility.

These guidelines are not intended to prevent responding to emergency situations. Any life threatening emergency will be handled immediately, in such a manner as to not endanger the lives of others.

Each employee and contractor should maintain good customer relations during restoration activities. Customer service will continue to be a high priority and every reasonable effort should be made to satisfy our customers.

Press releases and public announcements should be made only by designated company management personnel.

Restoration activities will be handled in the following manner:

- A. During the early stages of the emergency, restoration will be handled in the usual manner. All service will be restored as soon as possible.
- **B**. As the storm intensifies and trouble reaches major proportions, the main restoration activities will be limited to keeping main feeder energized by clearing trouble without making repairs.
- C. When the intensity of the storm is such that work can no longer be done safely, all work will cease and personnel will report to the office or other safe location. Aerial work will not be conducted when wind speed reach 35 miles per hour.
- **D**. When the storm has subsided to a reasonable level and it is safe to begin restoration activities damage assessment and restoration of main feeders to critical customers will begin.
- E. Restoration activities will continue in an effort to restore service in the following manner:
  - 1) Substations
  - 2) Main feeders to critical customers
  - 3) Other main feeders
  - 4) Undamaged primary
  - 5) Damaged primary, secondary, service, street lights, security lights

## 5. <u>EMERGENCY SAFETY PRECAUTIONS</u>

<u>All Rules in the Safe Practices Manual Shall be observed.</u> However, in order to point out some particular precautions which should be observed during storms, the following instructions listed below should receive special emphasis:

ALL incoming crews must have a safety briefing as soon as practical upon arrival and prior to starting any work. This will be to introduce them to our system and inform them of our expectations. Pole bands at open points shall be used to identify the work zone. The responding Company's safety rules SHALL be observed as well as our rubber glove, ground to ground rule during the storm and restoration period.

Be advised that NET metering is present on our system and can be identified by a green stripe around meter glass.

#### A. <u>SIZING UP WORK:</u>

Before undertaking any job, a job briefing shall be thoroughly discussed and documented so all personnel shall understand what is to be done, how it is to be done, and the following:

- 1) Voltage and position of all wires, or cables, and the sources or source of energy.
- 2) That the work in hand can be done safely.
- 3) All grounding, cover up and switching procedures shall be observed.
- 4) That there is a sufficient amount of each kind of protective equipment on hand to thoroughly protect the work man.
- 5) They should consider the ground traffic conditions and arrange to protect and guard these against all hazards.

#### B. <u>INSULATION:</u>

In cases of trouble following storms, all wires, regardless of normal voltage, are to be considered as being at primary voltage and are not to be handled except with protective equipment because of the danger of crosses between primary and secondary circuits. (This is a ground to ground statement) This may be modified on a case by case basis by the joint agreement of the Operations Manager and Safety Coordinator.

#### C. <u>DISTRIBUTION CIRCUITS ON OR NEAR TRANSMISSION POLES:</u>

If it is necessary to work on the conductors of a distribution circuit carried on or near transmission line poles with the transmission circuit energized and normal, any work on the conductors of the distribution circuits must be done between sets of grounds or else the distribution circuit must be worked and treated as an energized circuit. To determine positively that the lines to be worked are deenergized, test or investigation must be made before grounds are applied.

If the transmission line is also out of service and apparently in trouble, it must be considered as a possible source from which the distribution circuit may be energized, and it must be definitely determined that the transmission circuit as well as the distribution circuit is de-energized and grounded and the source or sources of supply are open and proper clearance obtained before the distribution circuit may be worked as de-energized.

## D. <u>STREET LIGHTING WIRES:</u>

Street lighting wires shall be considered energized at all times and the workman shall protect himself against them with proper protective equipment even when circuits are normally de-energized. Such a line is liable to become energized by accidental induction or lightning and sometimes street lighting wires become crossed with other energized wires.

#### E. <u>FUSE CUT-OUT CLEARANCE:</u>

When a distribution circuit is to be de-energized and cleared for working on conductors or other equipment by the opening of a fuse cut-out, either of the enclosed or open type, the fuse holder or tube is to be removed completely from the fuse assembly. The removed fuse holder or tube is to be placed at a safe and conspicuous location away from the fuse cut-out as an indication to other employees. The fuse cut-out shall continue in this open position until the work is completed. In addition, a red "hold" switch tag (with Lineman's name) should be attached to the pole in a conspicuous location and then removed when work is completed.

A pole band SHALL be used to identify who is working beyond the open point.

#### F. REQUIREMENTS FOR USE OF RUBBER PROTECTIVE APPARATUS:

In case of trouble following storms, all wires, regardless of normal voltage, are to be considered as being at primary voltage and are not to be handled except with protective equipment because of danger of crosses between primary and secondary circuits.

- 1) Energized Conductors Rubber gloves must always be worn when working on energized lines or energized conductors or equipment up to 15,000 volts between conductors.
- 2) Working position Rubber gloves must be put on before coming in reach of energized conductors when work is done on conductors or protective equipment is to be installed.

Because of the possibility of high voltage existing, rubber gloves must be worn until the conductor is grounded on primary circuits and on street lighting circuits.

Care of Rubber Protective Apparatus - At each job, before a workman puts on his rubber gloves, he should test each glove mechanically for cuts and weak spots by rolling it up tightly, beginning at the gauntlet. All of this type equipment, when not in use, must be stored in dry proper containers or compartment provided for this purpose.

#### G. <u>SWITCHING ORDERS:</u>

In all switching orders, the switches shall be referred to by their <u>numbers</u> and not by the name of the circuit which they control. The sequence in which the switch numbers are given, in the order, shall indicate the sequence of the switching operation. For example, an order given: "open switches 502-509 and close switches 511-502" shall be executed as follows: first, open switch 502; second, open switch 509; third, close switch 511; fourth, close switch 502.

#### **NO DEVIATION FROM THIS RULE WILL BE PERMITTED.**

To avoid misunderstandings and to prevent accidents, all orders concerning switching operations, or the handling of lines and equipment must be repeated to the person giving name, and <u>identity</u> of person giving order secured. Likewise, the operator giving an order must secure <u>identity</u> of person to whom it is given.

All switching orders must be written on a piece of paper by the person receiving same, and this written order must be carried by the person while doing the switching. *In no case shall anyone attempt to* 

*execute a switching order from memory.* All switching orders and tags shall be turned into the Safety Coordinator as soon as practical.

#### H. HIGH WATER:

During periods of high water involving lines or equipment, patrolmen shall not attempt to swim sections of the patrol which may be submerged. Necessary patrols over flooded areas must be done with boats and in such instances men engaged in these patrols shall wear suitable life belts or jackets.

#### I. <u>BROKEN CONDUCTORS:</u>

Before climbing pole, check for broken conductors which may be in contact with pole. Clear before climbing.

## 6. <u>ANNUAL PREPARATIONS</u>

#### **Storm Director**

- A. Review emergency procedure prior to May 1 and update as necessary.
- B. Develop employee assignments with all personnel prior to June 1.
- C. Update status of emergency crew assistance (Contractors, NE Florida, SEE, etc.).
- D. Ensure storm shutters, laundry facilities and cooking facilities are available.
- E. Ensure that Safety, Logistics, Operations and Engineering have completed pre-storm preparations.

#### **Electric Operations Manager**

- A. Check all communication equipment for proper operation. Check spare equipment and parts.
- B. Check material quantities and emergency stock prior to June 1. Communicate material requests to Stores Manager to purchase the emergency stock approved for purchase prior to an emergency.
- C. Have necessary emergency material delivered prior to June 1.
- D. Review status of all transportation equipment and have repairs made.
- E. Update status of remote storeroom site and trailer(s).
- F. Update status of emergency fuel suppliers, on site fuel and mobile fuel suppliers.
- G. Update status of vehicle repair facilities.

#### <u>Safety</u>

- A. Review safety precautions with all line crew personnel prior to June 1.
- B. Schedule and conduct half day emergency procedure training sessions prior to June 1. Written documentation is to be retained when training is complete.

C. Review assignments with each department by June 1.

#### Engineering

- A. Check all communication equipment for proper operation. Check spare equipment and parts.
- **B.** Update and have on hand the following:
  - 1) Storm safety precautions
  - 2) General operating instructions
  - 3) Distribution maps
  - 4) Single line switching maps
  - 5) City and county maps
- C. Conduct annual refresher training for personnel required to operate the Outage Management System (OMS).

#### **Propane/ Natural Gas Operations Manager**

- A. Check all communication equipment for proper operation. Check spare equipment and parts.
- B. Check material quantities and emergency stock prior to June 1. Begin necessary purchasing of emergency stock approved for purchase prior to an emergency.
- C. Review safety precautions with all propane and natural gas personnel prior to June 1.
- D. Have necessary emergency material delivered prior to June 1.
- E. Review status of all transportation equipment and have repairs made.
- F. Update status of emergency fuel suppliers, on site fuel and mobile fuel suppliers.
  - H. Update status of vehicle repair facilities.

#### Logistics/ Customer Care

- A. Update the list of critical customers by town/county and provide updates to the Storm Director by June 1. Group the critical customers by town/county by classification:
  - 1) Hospitals and clinics
  - 2) Public utilities
  - 3) Municipal and state emergency service
  - 4) Communication and broadcasting services
  - 5) Major food storage/processing facilities
  - 6) Disaster shelter and motels
  - 7) Correctional facilities
  - 8) Airport

- B. Update phone list for employees, law enforcement, emergency management, city/towns, utilities, contractors, tree trimming, personnel, news media, PSC, DCA, EDC, GEO, etc. and provide updates to the Storm Director by June 1.
- C. Update phone list for employees, law enforcement, emergency management, city/towns, utilities, contractors, tree trimming, personnel, etc.
- D. Review emergency telephone arrangements and make additional preliminary arrangements.
- E. Update status of motel rooms necessary for emergency/contract crews.
- F. Locate sources of food/water for crews and office personnel. Identify local and out of town caterers.
- G. Update status of building security firm.
- H. Ensure storm shutters, laundry facilities and cooking facilities are available
- **I.** Locate sources for provision for the Division office supplies.

#### **Crew Leaders**

- A. Review status of all transportation equipment and have repairs made
- **B.** Verify all vehicles kept filled with fuel
- C. Assist with annual refresher training

#### Warehouse

- **A.** Check material quantities and emergency stock prior to June 1. Begin necessary purchasing of emergency stock approved for purchase prior to an emergency.
- **B.** Have necessary emergency material delivered prior to June 1.

## 7. <u>PREPARATION JUST PROIR TO THE EMERGENCY</u>

#### **Storm Director**

- **A.** Monitor the emergency.
- **B.** Begin making preparations for obtaining emergency assistance from other utilities and contractors.
- C. Handle all media request.
- **D.** Inform all employees as to assignments and emergency information.
- E. Consult with FPUC Upper Management concerning activation of Division Emergency Procedures.
- **F.** Consult with Senior Staff concerning assistance from other divisions (i.e. mechanics, storeroom, media, family assistance, IT/Communications. Personnel from other divisions will be identified and mobilized. They will move as close as practical to Northwest Florida and then proceed to the office as

soon after the emergency as travel can be accomplished safely. This location may change depending upon the situation.

G. Obtain special job number for all emergency related work.

#### **Electric Operations Manager**

- A. Have all vehicles stocked with all necessary emergency materials and fuel.
- **B.** Check emergency stock levels and fuel supplies.
- C. Review plan to supply power to office and warehouse facility.
- **D.** Check all communication equipment.
- **E.** Review safety precautions with all personnel.
- F. Review line department job assignments with personnel and pass out necessary forms, information.
- G. Have all hazardous conditions corrected and construction jobs stabilized.
- H. Verify emergency generator is fully fueled and operable with back-up fuel available.
- I. Make arrangements for a suitable boat and trailer.
- J. Ensure all vehicle repairs are made and final arrangements with vehicle repair facilities confirmed.
- K. Check on emergency generators and secure additional generators if needed.
- L. Check the status of personnel on vacation.

#### **Propane/Natural Gas Operations Manager**

- A. Have all vehicles stocked with all necessary emergency materials and fuel.
- B. Monitor time/material needs of contractors.
- C. Check emergency stock levels and fuel supplies.
- D. Review plan to supply power to bulk plant using backup power supplies

#### Logistics / Customer Care

- A. Arrange for additional petty cash and cash advances (if necessary).
- **B.** Work with HR department and personnel from other divisions to provide assistance to employees and their families. Assistance may include work to prevent further damage to homes, care for children; work with contractors or insurance companies and provide food/lodging/clothing, etc.
- C. Make definite arrangements for contract crew lodging.
- **D.** Make definite arrangements for food/water/drinks for all personnel.

- E. Purchase food supply for office/warehouse prior to storm (if the severity of the storm warrants this).
- F. Make arrangements for an abundant supply of ice.
- **G.** Make definite arrangements for building security.
- **H.** Make definite arrangements for Division Office supplies (See Annual Preparations, Logistics Manager, and Item E.)

#### **Engineering**

- A. Provide distribution maps, procedures, etc. as necessary.
- **B.** Begin constant monitoring customer outages.
- C. Monitor time/material needs of contractors.

#### **Safety**

- A. Prepare for arrival of external crews. Onboarding of external crews as they arrive and time allows.
- B. Prepare daily safety briefing to be delivered to internal and external crews.

## 8. <u>DURING THE EMERGENCY</u>

#### **Director Electric Operations**

- A. Be located at the Northwest Florida office and constantly monitor the situation and restoration process.
- B. Keep media sources informed.
- C. Begin activating additional services that will be needed during the restoration process.

#### Senior Engineer

- A. Be located at the Northwest Florida office and constantly monitor the situation and restoration process.
- B. Coordinate OMS activities.
- C. Process customer outage system analysis to determine outage locations.
- D. Activate control room.

## **Propane/Natural Gas Operations Manager**

- A. Be located at the Northeast Florida Operations Center (if possible) and constantly monitor the situation and restoration process.
- B. Activate propane restoration process.
- C. Coordinate with Engineering.

#### Logistics / Customer Care

- A. Be located at the Northwest Florida office
- B. Coordinate assistance to employees and their families.
- C. Have food and drinks available to all employees.
- D. Work with Operations Manager and begin making final logistical arrangements for outside crews.

#### **Electric Operations Manager**

- A. Be located at the Northwest Florida office
- B. Work with Senior Engineer to determine restoration requirements.
- C. Coordinate and manage all restoration efforts
- D. Keep all employees informed of when to report to work

#### Safety

A. Daily safety briefings for internal and external crews. Onboarding of external crews as they arrive and time allows.

- B. Incident investigations.
- C. Field observations.

## 9. LOCAL STORM MODE

#### **Director Electric Operations**

- A. Determine manpower requirement from information provided by others. Contact Upper Management concerning the situation, if possible, and advise whether or not the additional personnel should continue to Northwest Florida.
- B. Begin making request for additional manpower contractors.
- C. Keep the media informed until such time that the Manager of Communications is on site. At that time, the Manager of Communications will keep the Media informed.

#### Engineering

- A. Provide damage assessment to Operations Manager.
- B. Provide updates to Operations Manager as needed concerning restoration progress.
- C. Work with Operations Manager to determine restoration requirements.
- D. Provide periodic outage updates to the PSC and Local County EOC's.

#### **Propane/Natural Gas Operations Manager**

- A. Make assignments and dispatch crews as necessary in order to ensure orderly and efficient restoration.
- B. Provide damage assessment to Storm Director.
- C. Provide updates to Storm Director as needed concerning restoration progress.
- D. Monitor manpower and equipment requirements and update Storm Director as required.
- E. Keep a list of all company and outside crews and their locations.
- F. Determine and assign appropriate manpower and equipment for each situation.
- G. Provide outside crews with all necessary information and safety information.
- L. Monitor and provide assistance in repairing vehicles.

#### Logistics / Customer Care

- A. Provide assistance and serve as liaison to employees and their families.
- B. Make final and definite arrangements for lodging, fuel, meals, snacks, coffee, drinks, etc. for all employees and contract employees.
- C. Check-in all outside crews and log the personnel and equipment included. Provide assistance with lodging, meals, etc. and keep up with crew locations.
- D. Provide assistance as needed.
- E. Ensure building security is operating at office.
- F. Ensure Division office supplies are in place if needed.
- G Ensure caterers are available as needed.

#### **Electric Operations Manager**

- A. Determine and assign appropriate manpower and equipment for each outage situation.
- B. Work with Senior Engineer to determine restoration requirements.

- C. Provide outside crews with all necessary information and SAFETY INFORMATION.
- D. Ensure all documents are completed prior to material leaving the storeroom and storeroom yard.
- E. Monitor and provide assistance in repairing vehicles.
- F. Initiate damage assessment teams.
- G. Prioritize and schedule the restoration process.
- H. Make assignments and dispatch crews as necessary in order to ensure orderly and efficient restoration.

## 10. <u>OPERATING PROCEDURE</u>

These instructions are intended to give the employee working on the line information as to the general procedure to be followed under hurricane conditions.

The Operations Manager and Safety Coordinator will review these instructions with employees each year so that they may become familiar with the details. This should be done before July 1, each year.

#### A. <u>Before the Storm</u>

All operating personnel should be instructed as to:

- 1) Safety and operating procedures to be followed during the storm.
- 2) Where and when materials and supplies will be available.
- 3) Their assigned areas and supervisor.
- 4) Any provisions made for feeding and lodging.
- 5) Work days will normally be two shifts. Each shift will consist of at least 12 hours but could be 16 hours.
- 6) The necessity of dividing line crews for clearing and minor repairs.
- 7) Telephone communication procedures with appropriate list of numbers.
- B. <u>During the Storm</u>
  - 1) First Stage Repairing All Cases Reported

In order to reduce the over-all outage time to customers who may be interrupted at the beginning of the storm, trouble will be handled in a normal manner during the early stages.

2) <u>Second Stage - Clearing Trouble From Lines</u>

When the volume of trouble increases to the point where large areas are interrupted, the Operations Manager will instruct crews to clear trouble from the lines without making repairs in order to maintain service to essential customers and feeders.

- a. Secondary or service wires may be cleared by cutting the conductor away from energized lines or by opening the transformer cut-out.
- b. Damaged primary conductors may be cleared by cutting and <u>rolling back</u> a primary jumper or conductor at the cross arm or by sectionalizing switching if applicable.

#### 3) <u>Third Stage - De-energizing Main Lines</u>

When the winds reach the point where it is no longer safe for crews to continue working all restoration activities will cease. The Operations Manager may instruct crews to de-energize main line feeders at substations if necessary to clear extremely hazardous conditions.

#### C. <u>After the Storm</u>

#### 1) <u>Sequence of Restoration</u>

The sequence of restoration after the winds subside to a safe working level will be as follows:

- a. Substations
- b. Essential customers
- c. Feeders
- d. Undamaged primaries (fuse replacement only)
- e. Damaged primaries
- f. Secondary's
- g. Services
- h. Street lights

#### 2) <u>Line Patrols</u>

All distribution lines which have "locked out" due to storm to prevent further damage must not be re-energized until patrolled and cleared of primary faults.

3) Discuss with Safety Coordinator on safety concerns/near miss during restorations.

## 11. <u>TELEPHONE OPERATORS GUIDE</u>

During any major interruption our customers will naturally be concerned about falling wires, burning wires, defrosting refrigeration and even their daily routines in which electricity plays a part. The most important test we have is maintaining good relations during these emergencies. Those employees answering telephones must keep this in mind - be calm, pleasant and sympathetic with the customer and at the same time getting the necessary information needed to clear dangerous conditions and restore service as soon as possible, giving as much information to the customer that is available.

Outlined below is a suggested procedure to be used during three different phases of an interruption (The Assistant Operations Manager will determine when Phase 1 begins and when movement to Phase 2 and 3 is indicated):

<u>Phase 1</u> - will be in effect until the time of the first trouble call until it is evident that there is widespread damage in the area.

<u>Phase 2</u> - will be in effect following Phase 1 until damage evaluations have been made and estimate of the time required to make major repairs.

<u>Phase 3</u> - will begin in an area where an estimate of the time required to make major repairs is available and will continue until all trouble is clear.

Your supervisor will advise you when conditions change from one phase to another in accordance with the routines outlined below:

#### Suggested Answering Routine to be used by All Operators

#### Phase 1 - Early Trouble Prior to Extensive Damage

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What is your name, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"
    - 3) "We hope to be able to make repairs shortly. Thank you very much for calling."

#### Phase 2 - Extensive Damage Evident But Estimate of Repair Time Not Available

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What is your name, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"
    - 3) "Our electric system has suffered considerable damage in your area and we haven't been able to make an estimate of the time required for repairs. Our crews are working now and if your service has not been restored by (morning/afternoon) please call again. Thank you."

#### Phase 3 - Damage Evaluated and Repair Time Estimated

- 1. "Florida Public Utilities, May we help you please."
  - a. If no lights, no power, lights dim, ask: "What is your name, address and telephone number please?"
  - b. If wire down, pole broken, tree on a line, ask:
    - 1) "Is the wire burning?"
    - 2) "Are your lights working?"
    - 3) "We have crews working on the lines which serve your area and repairs should be made by (<u>time</u>). If your electricity us not on by that time, please call again. Thank you."

Remember a properly handled telephone conversation with a customer can create an immeasurable amount of good will. When conversing with customers, keep the following points in mind:

- 1. Be courteous to each customer.
- 2. Give him as much information as is available of the restoration work.
- 3. Record each call and report the information vital to restoring the customer's service.
- 4. Handle each call as briefly as possible.
- 5. Thank the customer for calling.
- 6. Do not give the news media information. If a request for new information is received, record the name of the individual, news organization, telephone number and specific request. Inform the caller that a company representative will return the call. The information should be sent immediately to the Assistant Operations Manager, Northwest Florida.

7. During an emergency condition, some customers will contact the company for reasons that do not pertain to the emergency. These calls should be recorded and the exact customer needs should be stated in the remarks column. These calls may include disconnections, reconnections, etc., or may be a personal call to an employee. After the contact has been recorded, the completed form should be given directly to the supervisor.

#### Entering Outages

Each customer call will be recorded in the Outage Management System. The information entered should be entered accurately to ensure the system operates properly. The information entered will be stored as a permanent record and will be used to analyze the nature of the outages.

Should emergency situations come to your attention, please notify a supervisor. The method of this documentation will be determined.

## 12. <u>MEDIA/PUBLIC INFORMATION GUIDE</u>

In order to monitor all information given to media and public sources, only Upper Management, Northeast Florida, Manager of Communications or their designee will make press releases. If other employees are asked by media or public agencies for information, politely ask them to call (888) 843-5121 for the latest information.

## 13. WAREHOUSE PROCEDURE

During an emergency, material is vital to promptly and efficiently restore service to all customers. It is therefore important to monitor all stock levels to ensure adequate supplies are on-hand and if stock levels get low, be able to quickly order additional materials.

All material taken from the storeroom or remote storeroom will have the appropriate documentation completed before being removed from the stores area. The stores personnel will ensure this is followed.

Only authorized personnel should be in the stores area. Stores personnel will monitor those in the stores area to ensure compliance.

## 14. <u>PERSONNEL BACKUP CONTINGENCIES</u>

Should the following personnel not be available during the emergencies, personnel in the positions listed may fill in when needed.

Director, Electric Operations Manager, Electric Operations

<u>Senior Engineer</u> Manager, Electric Operations

Logistics Manager Energy Conservation Representative

# 16. <u>EMERGENCY ASSISTANCE LIST</u>

| Company                                   | Contact             | Telephone                              | Available Resources   |
|---|---------------------|--|-----------------------|
| Gulf Power Company                        | Andy McQuagge       | (850) 872-3220                         | Crews                 |
| West Florida Electric Coop                | Bill Rimes          | (850) 263-6518                         | Crews                 |
| FPU-Fernandina Beach                      | Chris Hebert        | (904) 277-3444                         | Crews                 |
| Davey Tree                                | Russell Brooks      | (352) 279-8622                         | Tree Crews            |
| Davey Tree                                | Russell Brooks      | (228) 396-5810                         | Tree Crews            |
| City of Tallahassee                       | Robert McGarrah     | (850) 891-5534                         | Crews                 |
| Talquin Electric Coop                     |                     | (850) 627-7651                         | Crews                 |
| Gulf Coast Electric Coop                  |                     | (850) 877-6166                         | Crews                 |
| Public Service Commission                 | Robert Graves (EOC) | (850) 431- 7009<br>(850) 408-4757 cell | Primary Contact       |
| Public Service Commission                 | Tom Ballinger       | (850) 413-6680                         | Backup Contact        |
|   |                     |  |                       |
| Florida Electric Power Coordination Group | R J Midulla         | (813) 289-5644                         | Crews                 |
| Mastec                                    |                     | (850) 519-0664                         | Crews                 |
| Utilicon                                  |                     | (478) 348-3233                         | Crews                 |
|   |                     | (850) 890-0131 ce                      |                       |
|   |                     | (850) 638-7129 hor                     |                       |
| Harper Electric                           | Mark Harper         | (334) 222-7022                         |                       |
|   |                     | (334) 222-7854                         |                       |
|   |                     | (334) 343-1703 ce                      |                       |
| Vehicle Repairs Assistance                |                     |  |                       |
| Company                                   | Contact             | Telephone                              | Available Resources   |
| Altec Industries Inc                      |                     | (205) 458-3850                         | Mechanical Repairs    |
| Altec Industries Inc                      |                     | (205) 458-3857                         | Mechanical Repairs    |
| Altec Industries Inc                      |                     | (205) 458-3889                         | Mechanical Repairs    |
| Altec Industries Inc                      |                     | (205) 458-3849                         | Mechanical Repairs    |
| Altec Industries Inc                      |                     | (205) 458-3848                         | Mechanical Repairs    |
| Auto Clinic                               | Office              | (904) 482-6632                         | Mechanical Repairs    |
| Auto Clinic                               | Mike Krieser        | (850) 569-8475                         | Mechanical Repairs    |
| Auto Clinic                               |                     | 258-6274                               | Mechanical Repairs    |
| Banning Garage                            | Dale Brannon        | 352-4613 shop                          | Wrecker               |
|   |                     | (850)638-1899 cel                      | Wrecker               |
| RingPower                                 |                     | (850) 562-2121                         | Mobile/Mechanical Rep |
|   |                     |  |                       |
|   |                     |  |                       |

## 17. EMERGENCY STOCK REQUIREMENTS

| Bin #  | Description           | Quantity |
|--------|-----------------------|----------|
| EWA04  | Wire, #4 ACSR Bare    | 25,000   |
| EWB010 | Wire, #1/0 ACSR Bare  | 6,000    |
| EWT04  | Wire, #4 AL Triplex   | 2,500    |
| EWT010 | Wire, #1/0 AL Triplex | 10,000   |
| EWT02  | Wire, #2 AL Triplex   | 5,000    |

| EWQ010   | Wire, #1/0 AL Quad             | 1,000 |
|----------|--------------------------------|-------|
| EWQ040   | Wire, #4/0 AL Quad             | 1,000 |
| EWG38    | Wire, 3/8 Guy                  | 3,000 |
| EARL76   | Arrester, Lightning            | 100   |
| ECLDS    | Clevis Dead End                | 100   |
| ECOF200  | Cut-out, Fused, 100A           | 50    |
| ECOL150  | Cut-out, Load Break, 200 A     | 24    |
| EESU600  | 600A, Single Phase Hookstick   | 6     |
| EGA477   | Line Guard, 477                | 100   |
| EGA336   | Line Guard, 336                | 50    |
| EGA40    | Line Guard, 4/0                | 50    |
| EFGG38   | Guy Grip, 3/8 Galv             | 200   |
| EIP7500  | Insulator, Pin Type, 7500 V    | 100   |
| EIRR     | Insulator -Rack Type (Spool)   | 100   |
| EIDP654  | Insulator Deadend Epox.        | 100   |
| EIFR1200 | Insulator, Fiberglass Rod 12"  | 25    |
| EIFR6000 | Insulator, Fiberglass Rod 5'   | 50    |
| EPP24    | Pole Top Pin                   | 100   |
| EBRF15   | Pin, Fiberglass Horizontal     | 100   |
| EPW304   | Pole, 30'/4                    | 50    |
| EPW354   | Pole, 35'/4                    | 10    |
| EPW401   | Pole, 40'/1                    | 30    |
| EPW451   | Pole, 45'/1                    | 50    |
| EPW501   | Pole, 50'/1                    | 10    |
| EPW55H1  | Pole, 55'/1                    | 5     |
| EPW602   | Pole, 60'/1                    | 5     |
| ETS1000  | Ties, #4 Side                  | 100   |
| ETS1000  | Ties, #477 Side                | 50    |
| ETW04    | Ties, #4 Wrap lock             | 100   |
| ETW336   | Ties, #477 Wrap lock           | 100   |
| ECLDE    | Clamp, Dead-end #6-#2 Service  | 200   |
| ECLDE2   | Clamp, Dead-end #1/0 Service   | 100   |
| ECOHA    | Connector, H Type, WR-159 #1   | 1,000 |
| ECOHA    | Connector, H Type, WR-189 #2   | 1,000 |
| ECOHA    | Connector, H Type, WR-289 #3   | 200   |
| ECOA     | Connector, H Type, WR-279 #4   | 250   |
| ECOA     | Connector, H Type, WR-379 #5   | 250   |
| ECOA     | Connector, H Type, WR-419 #7   | 250   |
| ECOA     | Connector, H Type, WR-399 #6   | 250   |
| ECOHA    | Connector, H Type, WR-885 #525 | 100   |
| ECOHA    | Connector, H Type, WR-835      | 100   |

| ECOVA6   | Connector, Vise Action, #6 Cu    | 100 |
|----------|----------------------------------|-----|
| ECOVA4   | Connector, Vise Action, #4 Cu    | 200 |
| ECOVA2   | Connector, Vise Action, #2 Cu    | 150 |
| ESLA4AC  | Sleeves, Auto Splice, #4 AL      | 500 |
| ESLA10A  | Sleeves, Auto Splice, #1/0 AL    | 50  |
| ESLA30A  | Sleeves, Auto Splice, #3/0 AL    | 25  |
| ESLA40A  | Sleeves, Auto Splice, #4/0 AL    | 50  |
| ESLA336A | Sleeves, Auto Splice, 336 AL     | 100 |
| ESLA477A | Sleeves, Auto Splice, 477 AL     | 150 |
| ESLTRN   | Sleeves, Triplex Neutral, #4 AL  | 100 |
| ESLTRN   | Sleeves, Triplex Neutral, #2 AL  | 100 |
| ESLTRN   | Sleeves, Triplex Neutral, #6 AL  | 100 |
| ESLTRN   | Sleeves, Triplex Neutral, 1/0 AL | 100 |
| ESPGUY   | Splice, Guy                      | 50  |
| ESTHL24  | Stirrup, #4                      | 100 |
| ECLHLS   | Stirrup, Hot Line 2 Bolt         | 30  |
| EFULI002 | Fuse Link, 2 ½ Amp               | 150 |
| EFULI004 | Fuse Link, 4 Amp                 | 100 |
| EFULI007 | Fuse Link, 7 Amp                 | 100 |
| EFULI010 | Fuse Link, 10 Amp                | 150 |
| EFULI015 | Fuse Link, 15 Amp                | 100 |
| EFULI020 | Fuse Link, 20 Amp                | 150 |
| EFULI025 | Fuse Link, 25 Amp                | 100 |
| EFULI030 | Fuse Link, 30 Amp                | 25  |
| EFULI040 | Fuse Link, 40 Amp                | 25  |
| EFULI050 | Fuse Link, 50 Amp                | 25  |
| EFULI065 | Fuse Link, 65 Amp                | 25  |
| EFULI080 | Fuse Link, 80 Amp                | 25  |
| EFULI100 | Fuse Link, 100 Amp               | 25  |
|          | Transformer, 15 KVA 120/240      | 10  |
|          | Transformer, 15 KVA 277/480      | 3   |
|          | Transformer, 25 KVA 120/240      | 20  |
|          | Transformer, 25 KVA 277/480      | 3   |
|          | Transformer, 37.5 KVA 120/240    | 10  |
|          | Transformer, 37.5 KVA 277/480    | 3   |
|          | Transformer, 50 KVA 120/240      | 10  |
|          | Transformer, 50 KVA 277/480      | 3   |

# **19.** <u>CRITICAL CUSTOMER LIST</u>

## A. Hospitals, Clinics, Nursing Homes

| Name                       | Address          | Telephone | Contact Person |
|----------------------------|------------------|-----------|----------------|
| Jackson Hospital           | 800 Hospital Dr. | 526-2200  | James Platt    |
| Marianna Convalescent Ctr. | 805 5th Ave.     | 482-8091  | Melinda Gray   |
| The Nursing Pavilion       | 710 3rd Ave.     | 526-3191  | Richard Pitman |

#### B. Public Utilities

| Name                      | Address               |          | Telephone | Contact Person |
|---------------------------|-----------------------|----------|-----------|----------------|
| Marianna Waste Water      | 2832 Davey St.        | 482-4353 | -         | Jim Dean       |
| Sunland Waster Water T.P. | 3693 Industrial Park  | "        |           | "              |
| Park St. Pump Station     | 2988 Park St.         | "        |           | "              |
| Davis Field Pump Station  | 4457 South St.        | "        |           | "              |
| Sheffield Pump Station    | 3325 Old US Rd.       | "        |           | "              |
| Marianna Well #5          | Clinton & Noland St.  | "        |           | "              |
| Marianna Well #6          | Ninth Av. & Third St. | "        |           | "              |
| Marianna Well #1          | Hwy 90 W/ Pool        | "        |           | "              |
| Marianna Public Work      | 4168 South St.        | "        |           | "              |
| Marianna Gas Department   |                       | "        |           | "              |

## C. Major Disaster Shelters/Motels

| Name                          | Address            | Telephone | Contact Person |
|-------------------------------|--------------------|-----------|----------------|
| Best Western 2086 Hwy 71      | 526-5666           | -         |                |
| Comfort Inn                   | 2175 Hwy 71        | 526-5600  |                |
| Exective Inn                  | 4113 Lafayette     | 526-3710  |                |
| Best-Value Inn 4168 Lafayette | 482-4973           |           |                |
| Chipola Jr. College           | 3094 College Dr.   | 526-2761  |                |
| Cottondale High School        | 2680 Levy St       | 482-9821  | Larry Moore    |
| Malone High School            | 5361 North St      | 482-9950  | Larry Moore    |
| Marianna High School          | Caverns RD.        | 482-9605  | Larry Moore    |
| Marianna Middle School        | 4144 South St.     | 482-9609  | Larry Moore    |
| Riverside Elementary          | 2958 Cherokee St.  | 482-9611  | Larry Moore    |
| Golson Elementary             | 4258 Second Av.    | 482-9607  | Larry Moore    |
| Microtel                      | 4959 Whitetail Dr. | 526-5005  | Harkins        |
| Hampton Inn                   | 2185 Hwy 71        | 526-1006  | D Thompson     |
| Budget Inn                    | 4135 Lafayette St  | 482-2700  | R Shah         |
| Fairfield Inn                 | 4966 Whitetail Dr. | 482-2578  |                |
| Ramada Limited                | 4655 E. Hwy 90     | 526-3251  |                |
| Comfort Inn                   | 2214 Hwy 71        | 482-7112  |                |
| Marianna Inn                  | 2222 Hwy 71        | 526-2900  |                |

#### D. Municipal and State Emergency Services

| Name                      | Address             | Telephone | Contact Person |
|---------------------------|---------------------|-----------|----------------|
| Florida Highway Patrol    | 3613 Hwy 90         | 482-9512  | Lt. Moore      |
| Jackson Co. Sheriff Dept. | 4012 Lafayette St   | 482-9624  | L. Roberts     |
| Cottondale Police Dept.   | 2659 Front St.      | 352-4361  | Watford        |
| Marianna Police Dept.     | 2890 Green St.      | 526-3125  | H. Bagett      |
| Jackson Co. Fire & Rescue | Industrial Park Dr. | 482-9669  | R Brown        |
| Alford Fire Dept.         | 1768 Georgia St     | 638-8657  | B Yongue       |
| Cottondale Fire Dept.     | 2669 Front St.      | 911       |                |
| Malone Fire Dept.         | 5187 Ninth Ave.     | 911       | M Padget       |
| Marianna Fire Dept.       | 4425 Clinton St.    | 482-2414  | N. Lovett      |
| Emergency Management      |                     | 482-9683  | Andreason      |
| Emergency Management      |                     | 573-1058  | Andreason      |

## E. Communication and Broadcasting Services

| Name                    | Address              | Telephone    | Contact Person |
|-------------------------|----------------------|--------------|----------------|
| WTOT/WJAQ Radio         | 4376 Lafayette St    | 482-3046     | Betty Demmon   |
| Jackson County Floridan | 4403 Constitution Ln | 526-3614     | V. Roberts     |
| WMBB                    | Panama City          | 850-769-2313 | M. McAfee      |

## F. Major Food Storage/Processing Facilities

| Name                       | Address           | Telephone | Contact Person |
|----------------------------|-------------------|-----------|----------------|
| Malone IGA                 | 5417 10th St.     | 569-2635  |                |
| Grocery Outlet             | Lafayette St.     | 526-5528  | D. Pendergrass |
| Winn Dixie                 | 4478 Lafayette St | 482-5303  | Russ           |
| Walmart Superstore         | Highway 71        | 526-5744  | M. Gilmore     |
| G. Correction Facilities   |                   |           |                |
| Name                       | Address           | Telephone | Contact Person |
| Marianna Work Camp         |                   | 482-9561  |                |
| Federal Correctional (FCI) | 3625 FCI Rd       | 526-2313  | L. Gross       |

I.

## Airports

| Name                        | Address                | Telephone   | Contact Person |
|-----------------------------|------------------------|-------------|----------------|
| Chipola Aviation Inc.       | 3633 Industrial Park I | Dr 482-8480 |                |
| Panhandle Aviation          | Greenwood              | 594-3224    |                |
| Marianna Airport/ Ind. Park | Industrial Park Dr.    | 482-2281    |                |

| * <u>EMERGENCY FUEL</u> |             |                         |  |  |  |
|-------------------------|-------------|-------------------------|--|--|--|
| 24HRS. DONALD CUTCHINS  |             | STORM/FUEL SHORTAGE     |  |  |  |
| (H) 352-2906 ©573-1505  |             | (w) 482-7003 © 643-8925 |  |  |  |
| Suncoast Resources      | Susan Tyler | (713) 429-6732          |  |  |  |

# 20. <u>EMERGENCY TELEPHONE LISTING</u>

| А. | Telephone Repair<br>Century Link (Wilton Crawford)   | 526-3481 or (611)  |
|----|--|--|
| B. | Radio Repair<br>Verizon (Jerry Fox)  | (850) 867-9633   |
| C. | Gulf Power Company<br>Pensacola Dispatcher<br>Panama City Dispatcher<br>Storm Coordinator<br>Andy McQuagge   | 444-6517<br>872-3261<br>785-8305<br>872-3220   |
| D. | Emergency Management   |  |
|    | Jackson County (Rodney Andreason)<br>"""""<br>Calhoun County (Don O'Bryan)<br>Liberty County (Jerry Butler)<br>State Office (Rick Moses)   | 482-9633<br>536-4500<br>674-8075/5161<br>643-3477<br>(850) 408-4757  |
| E. | Law Enforcement - 911  |  |
|    | Jackson County<br>Calhoun County<br>Liberty County<br>Marianna<br>Greenwood<br>Malone<br>Cottondale<br>Alford<br>Altha<br>Bristol<br>Blountstown<br>Bascom<br>Florida Highway Patrol | 482-9624 / 482-9648<br>674-5049/4275<br>643-2235<br>526-3125<br>482-9648<br>352-4361<br>482-9648<br>762-3900<br>643-2235<br>674-5987<br>482-9648<br>482-9512 |
| F. | Ambulance - 911  |  |
|    | Jackson County<br>Calhoun County<br>Liberty County   | 482-9669 / 482-9668<br>674-5411<br>643-2235  |
| G. | News Media   |  |
|    | WTOT/WJAQ (Don Moore)<br>Jackson County Floridan<br>WTVY-Channel 4 TV/Dothan<br>WJHG-Channel 7 TV/Panama City<br>WMBB-Channel 13 TV/Panama City                                      | 482-3046<br>526-3614<br>(334)792-3195<br>234-2125 / 526-5727<br>763-6000 / 482-8007  |

## H. City/County Officials

| Jackson County | 482-9633 |
|----------------|----------|
| Calhoun County | 674-4545 |
| Liberty County | 643-5404 |
| Alford         | 579-4684 |
| Bascom         | 569-2234 |
| Cottondale     | 352-4361 |
| Greenwood      | 594-1216 |
| Malone         | 569-2308 |
| Marianna       | 482-4353 |
| Altha          | 762-3280 |
| Bristol        | 643-2261 |
| Blountstown    | 674-5488 |

# 21. <u>LOGISTICS</u>

| Motels:<br>Best Western<br>Comfort Inn<br>Microtel<br>Executive Inn | 526-5666<br>526-5600<br>526-5005<br>526-3710 | Air Mattress/Cots:<br>Loftin's Rental Center<br>North Florida Rentals<br>Laundry & Linen Servic<br>UniMac Express Laundry |                          | 526-4680<br>526-7368<br>482-6504 |
|---|--|---|--------------------------|----------------------------------|
| Hampton Inn   | 526-1006                                     | Nifty Cleaners  |                          | 482-2825                         |
| Holiday Inn Express<br>Ramada Limited                               | 526-2900<br>526-3251                         | First Aid Supplies:   |                          |                                  |
| Best Value Inn  | 482-4973                                     | Waco Drugs 482-5781<br>Paramore's 482-3924<br>CVS   | Kelson Drugs<br>Watson's | 526-2839<br>482-4035             |
| Restaurants:  |  |   |                          |                                  |
| Captain D's   | 482-6230                                     | Firehouse Subs  | 482-5883                 |                                  |
| Beef O Bradys   | 482-0002                                     | San Marcos  | 482-0062                 |                                  |
| Fortune Cookie  | 526-3735                                     | Pizza Hut   | 482-5900                 |                                  |
| Jim's Buffet & Grill  | 526-2366                                     | Gazebo Rest.  | 526-1276                 |                                  |
| Hungry Howies   | 526-7878                                     |   |                          |                                  |
| Dairy Queen   | 482-1055                                     |   |                          |                                  |
| Sonny's Barbecue  | 526-7274                                     | Catering:   |                          |                                  |
| Ruby Tuesday  | 526-7100                                     | Sweet Stuff Bakery  | 526-2250                 |                                  |
| Waffle Iron   | 526-5055                                     |   |                          |                                  |
| Zaxby's   | 633-4545                                     |   |                          |                                  |
| The Oaks  | 526-1114                                     |   |                          |                                  |
| Hungry Howies   | 526-7878                                     |   |                          |                                  |
| Ruby Tuesday  | 526-7100                                     |   |                          |                                  |
| Waffle Iron   | 526-5055                                     |   |                          |                                  |
| Zaxby's   | 633-4545                                     |   |                          |                                  |
| Food Stores:  |  |   |                          |                                  |
| Grocery Outlet  | 526-5528                                     |   |                          |                                  |
| Walmart Superstore  | 526-5744                                     |   |                          |                                  |
| Malone IGA  | 569-2635                                     | <b>Cellular Phones:</b>   |                          |                                  |
| Winn Dixie  | 482-5303                                     | Verizon   | 526-7701                 |                                  |

#### Water Supply:

FPU (Co. generator to supply water) Nantze Springs Water Co. 800-239-7873

#### Service Stations:

**Big Little Store** 526-5743 Cottondale Texaco 352-2804 Marianna Texaco 482-6105 Hartsfield Mini-Mart 482-4545 K & M Expressway 526-5575 McCoy's Chevron 526-2921 Marianna Chevron 526-2183 Marianna Truck Stop 526-3303 569-2401 Mike's Texaco, Malone Nugget Oil 482-8585 Sangaree BP 482-5241 Murphy USA 482-6149 Stoney's 482-2028 Tom Thumb 482-4842

#### Ice Supply: Winn Dixie

482-5303

#### Vehicle Repair Facilities:

| Baker Equipment      | 800-765-4908 |
|----------------------|--------------|
| Altec Industries Inc | 205-323-8751 |
| Thompson Tractor Co  | 526-2241     |
| Beall Tire Co        | 482-323      |
| Auto Clinic          | 482-6632     |

## Flashlights (20 w/batteries):

Quantity on hand Mayer Electric (Additional) 800-216-6712

**Portable AM/FM Radios w/batteries:** WalMart 526-5744

#### **Necessary Supplies for Northwest Florida Office:**

#### **Food Items:**

Item Bread Gallon Size Water Jelly (Grape & Strawberry) Orange Juice Soft drinks (miscellaneous) Cookies (miscellaneous) American Cheese Lunch Meat (miscellaneous) Pretzels Onions Mustard Pastries (miscellaneous)

#### **Supplies:**

Item Paper Plates Plastic Utensils Garbage Bags Paper Towels Serving Utensils Item Peanut Butter Bottle Size Water Milk Soft drinks (Miscellaneous) Margarine Crackers Cheddar Cheese Potato Chips (miscellaneous) Tomatoes Mayonnaise Ketchup Bagels

Item Paper Bowls Aluminum Foil Foil Pans/Trays Dish Towels and Rags Dish Soap

## 22. <u>SERVICE PLAN TO SUPPLY FPU OFFICE POWER</u>

During an emergency it is imperative that power be restored to the office/complex located at 2825 Penn Av. as soon as possible. Also of the utmost importance is to ensure the feeder to the building is maintained in optimum working order at all times. This includes tree trimming, replacing deteriorated poles, replacing defective equipment, etc.

After an emergency in which power is lost to the office/warehouse, someone will immediately go to the Marianna Substation in order to determine the status of the breaker #9854 (South St Feeder). That feeder will also be patrolled to determine what will be needed to restore service to the office/warehouse. All available personnel will be utilized to restore power.

If required, downstream switches should be opened so that power may be restored to the warehouse as soon as possible.

## 23. DAMAGE ASSESSMENT PLAN

After a major storm or emergency occurs it will be necessary to access the damage to the system as quickly and accurately as possible. The following shows the assignments for a quick visual system inspection which is to be performed as soon after the storm/emergency as possible.

#### **Director Electric Operations**

Check Hospital feeder from the hospital to Marianna Substation. Check Marianna Substation.

#### Safety Coordinator

Check Chipola Substation. Check along Old US Rd to Hwy 90.

#### **Operations Manager**

Check along Kelson Av to Penn Av then down Penn Av to the office. Check Caverns Rd Substation. Check along Hwy 71 South to Hwy 90 then south on West Caledonia to South St then west on South St to Penn Av then north on Penn Av. to the warehouse.

#### Senior Engineer

Check along Hwy 90 from Marianna Substation to Penn Ave.

## 24. DAMAGE ASSESSMENT FORM

The Damage Assessment Form to be completed and returned as soon as possible after the storm/emergency. To ensure proper planning it is essential that this form be completed neatly, accurately and completely.

FPUC will employ contractors to perform both the post-storm data collection and forensics analysis should a significant storm occur. The contractors will be provided with system mapping information and requested to collect post-storm damage information on areas as defined by the company. The areas will be selected in order to survey the areas in which the most damage occurs in order to gain the most information.

Damage will be identified so that the cause of the outage is identified as it relates to trees, wind, debris, conductor failure, pole failure, etc. which will be identified on the map. Depending upon the degree of damage, forensic analysis may be collected during this process. However, if the damage is extensive the forensics analysis will be performed as soon as possible after the post-storm data collection is completed.

Data collected during the collection process will be analyzed after completion of all storm related work has been completed. This analysis will summarize the type damage and failure modes of outages in order to determine methods to improve reliability in the future.