

State of Florida



Public Service Commission
CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: October 4, 2013
TO: Ann Cole, Commission Clerk, Office of Commission Clerk
FROM: Melissa L'Amoreaux, Engineering Specialist II, Division of Engineering *CEL For ML*
RE: DN 130129-EI - Petition for approval of 2013-2015 storm hardening plan, pursuant to Rule 25-6.0342, F.A.C., by Duke Energy Florida, Inc.

Please file the attached DEF Response to Staff's First Data Request in the above mentioned docket file.

Thank you.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition to Approve Progress
Energy Florida, Inc.'s n/k/a Duke Energy
Florida, Inc. Rule 25-6.0342 Storm Hardening
Plan.

Docket No. 130129

Filed: October 2, 2013

**DUKE ENERGY FLORIDA, INC.'S NOTICE OF SERVICE OF
RESPONSES TO COMMISSION STAFF'S FIRST DATA REQUEST
NOS. 1 THROUGH 11**

Duke Energy Florida, Inc. ("DEF" or "the Company"), hereby gives notice of service of responses to Commission Staff's First Data Request Nos. 1 through 11 as directed in Commission Engineering Specialist Melissa L'Amoreaux's letter of September 5, 2013, Document No. 05275-13.

Respectfully submitted,



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October 2, 2013

Ms. Melissa L'Amoreaux
Engineering Specialist
Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

RE: **Docket No. 130129-EI (Petition for approval of 2013-2015 storm hardening plan, pursuant to Rule 25-6.0342, F.A.C., by Duke Energy Florida, Inc.) - Staff's First Data Request to DEF.**

Dear Ms. L'Amoreaux:

By this letter, Duke Energy Florida, Inc. responds to Commission Staff's First Data Request as follows:

1. Please refer to page 6 of the updated storm hardening plan. Please identify the service territories in which current underground equipment should be replaced with overhead.

RESPONSE:

One such area is the Saddlebag Lakes community in Lake Wales where a significant portion of the subdivision was flooded in hurricane Charley and remained under water for several months. Once the water receded and residents began to request electric service to their restored homes, Duke Energy Florida could not salvage the underground primary, secondary, or service cables or approximately 20 pad mounted transformers damaged beyond repair by water intrusion. In lieu of the most cost effective option to go back with overhead facilities to prevent repeat damage, at the request of customers DEF installed underground facilities and mitigated future damage by adding 4 foot tall raised coastal configuration pedestals and waterproof secondary blocks on specific transformers where water intrusion had occurred.

At this time DEF has not identified any specific areas to convert from underground to overhead facilities. DEF continues to utilize the Storm Surge Standard to elevate transformers and other equipment above water levels and utilize waterproof secondary connectors to prevent water intrusion. Due to the limited space in the majority of residential underground areas it is not practical to install overhead

systems. In these cases DEF's Storm Surge Standard provides reasonable mitigation to the risks associated with storm surges and other flooding events.

2. Please refer to page 7 of the updated storm hardening plan. What was the total cost of the St. George Island project in Franklin County, Florida.

RESPONSE:

The St. George Island – East Side Underground Submersible Project in the North Coastal Zone in Franklin County entailed converting all UG equipment in the east side of the St. George Island to submersible UG standard. The total cost of the Distribution Underground Submersible upgrade project was \$211,685 dollars.

Furthermore, a Transmission line project was completed to rebuild and re-conductor the 69kv radial transmission line feeding the St. George Island. All the wood and steel poles needed to be replaced with concrete and designed to withstand at least 150 mph continuous wind. The cost for the Transmission line replacement is \$8,987,078 dollars and was in service in July 2012.

The total cost of both the Distribution and the Transmission project upgrades is captured at \$9,198,763 dollars.

3. Please refer to page 9 of the updated Storm hardening plan.
 - a. Please provide the number of new distribution facilities and all replacement distribution facilities by year from 2010-2012.

RESPONSE:

Distribution Hardening Projects	2010 Actuals	2011 Actuals	2012 Actuals	Unit Type
Small Diameter Conductor Upgrade (Cap)	145,155	128,527	373,674	Footage
Mid Feeder Electronic Reclosers (Cap and O&M)	131	68	24	Per Location/Device
Wood Pole Replacements (Cap)	3,050	2,887	4,570	Per Location/Device
Padmount Transformer Replacements (Cap)	1,027	997	1,879	Per Location/Device
SH Pilot Programs (AIS) (Cap and O&M)	74,838	89,003	265,841	Footage
Network Maintenance (Cap and O&M)	4,960	3,709	2,277	Per Location

- b. Please provide the estimated number of new distribution facilities and all replacement distribution facilities for 2013, 2014, and 2015.

RESPONSE:

Distribution Hardening Projects	2013 Estimate	2014 Estimate	2015 Estimate	Unit Type
Small Diameter Conductor Upgrade (Cap)	149,471	153,955	158,574	Footage
Mid Feeder Electronic Reclosers (Cap and O&M)	126	130	134	Per Location/Device
Wood Pole Replacements (Cap)	6,115	6,298	6,487	Per Location/Device
Padmount Transformer Replacements (Cap)	1,515	1,560	1,607	Per Location/Device
SH Pilot Programs (AIS) (Cap and O&M)	115,212	118,669	122,229	Footage
Network Maintenance (Cap and O&M)	2,835	2,920	3,008	Per Location

- c. Please provide the actual and projected cost for all new distribution facilities and all replacement distribution facilities from 2010 to 2015.

RESPONSE:

Distribution Hardening Projects	2010 Actuals	2011 Actuals	2012 Actuals	2013 Projection	2014 Projection	2015 Projection
Small Diameter Conductor Upgrade (Cap)	\$5,008,437	\$3,764,017	\$3,786,747	\$2,899,858	\$2,986,854	\$3,076,459
Mid Feeder Electronic Reclosers (Cap and O&M)	\$598,735	\$552,520	\$565,327	\$971,834	\$1,000,989	\$1,031,019
Wood Pole Replacements (Cap)	\$7,036,673	\$6,664,265	\$12,722,078	\$15,377,617	\$15,838,946	\$16,314,114
Padmount Transformer Replacements (Cap)	\$6,199,956	\$6,459,918	\$11,367,494	\$9,324,100	\$9,603,823	\$9,891,938
SH Pilot Programs (AIS) (Cap and O&M)	\$3,781,101	\$3,337,325	\$4,815,493	\$3,199,891	\$3,295,888	\$3,394,764
Network Maintenance (Cap and O&M)	\$970,394	\$1,054,163	\$921,998	\$763,239	\$786,136	\$809,720
Total	\$23,595,296	\$21,832,208	\$34,179,137	\$32,536,539	\$33,512,635	\$34,518,014

4. Please refer to page 12 of the updated storm hardening plan. Please explain how the questions to the prioritization model were developed.

RESPONSE:

The questions detailed on page 12 were submitted as part of DEF's Asset Investment Strategy ("AIS") Model Report to the FPSC on July 30, 2007. Workshops were held to identify key strategic indicators of project merit and attributes that describe the value for each criterion. The team also defined the initial set of questions and answers as well as weights and values that were used to prioritize projects.

5. Please refer to pages 15 and 16 of the updated storm hardening plan.
- a. Please provide the estimated cost of each project listed.
- b. Please provide the estimated time of completion for each project listed.

RESPONSE:

Op Center	Project Name	Sub Category	Estimated Cost	Estimated Time of Completion
Buena Vista	Old Harbor Rd Sky Lake South	Back Lot to Front Lot Conversion	\$52,800	Expected December 2014
Southeast Orlando	Meadow Woods Village 10	Back Lot to Front Lot Conversion	\$76,125	Expected December 2014
Winter Garden	Malcom Rd. reconductor/reroute	Back Lot to Front Lot Conversion	\$20,210	Expected December 2014
Monticello	Alligator Point Extreme Wind Phase 2 of 4	Alternative NESC Construction Standard	\$800,000	Expected December 2013
Apopka	M451 to M453 feeder tie - Phase 1 of 2	Feeder Tie	\$500,000	Expected December 2015
Apopka	Apopka Blvd Feeder Tie	Feeder Tie	\$261,000	Expected December 2015
Buena Vista	Reams Feeder Tie K1110 to K789	Feeder Tie	\$165,693	Expected December 2014
Buena Vista	Loop ug feeder radial-Celebration	Feeder Tie	\$183,000	Expected December 2013

Clermont	Minneola Feeder Tie - Phase 1 of 2	Feeder Tie	\$488,000	Expected December 2014/2015
Deland	Deltona East W0124 feeder tie	Feeder Tie	\$72,000	Expected December 2014
Deland	Lake Helem W1701 feeder tie	Feeder Tie	\$175,000	Expected December 2014
Seven Springs	Land O'Lakes- Denham Feeder Tie - Phase 1 of 3	Feeder Tie	\$617,900	Expected December 2015
Winter Garden	Orlavista	Feeder Tie	\$286,000	Expected December 2015
Deland	SR 17-92 and Benson Junction	OH to UG Conversion	\$45,000	Expected December 2014
Apopka	Earlwood AV. reconductor	Small Wire Upgrade	\$135,000	Expected December 2014
Apopka	Chandler Rd. & Kelly Park reconductor	Small Wire Upgrade	\$70,000	Expected December 2014
Apopka	Woodward Ave./Eustis	Small Wire Upgrade	\$156,000	Expected December 2014
Apopka	Reconductor Plymouth M707 feeder exit from 2/0 Cu to 795 AAC	Small Wire Upgrade	\$90,000	Expected December 2014
Apopka	Reconductor Plymouth M707 feeder from 1/0 Al to 795 AAC(tie to M32)	Small Wire Upgrade	\$180,000	Expected December 2015
Buena Vista	Cassino Ave Back_lot	Small Wire Upgrade	\$24,330	Expected December 2014
Clearwater	Highlands C2807 reconductor-Weak Link	Small Wire Upgrade	\$123,000	Expected December 2015
Clermont	East Ave Reconductor - Change conductor size from 336 to 795 between switch K5330622 and K2227	Small Wire Upgrade	\$63,000	Expected December 2014
Deland	Mercers Fernery Rd.	Small Wire Upgrade	\$66,000	Expected December 2014
Deland	Pensilvania Ave.	Small Wire Upgrade	\$147,000	Expected December 2015
Inverness	Lebanon A132 - US 19 South	Small Wire Upgrade	\$350,000	Expected December 2015

Lake Wales	Hunt Brothers Rd. Reconductor	Small Wire Upgrade	\$62,400	Expected December 2014
Longwood	N. Ranger Blvd. reconductor	Small Wire Upgrade	\$32,000	Expected December 2015
Southeast Orlando	Reconductor Hickory Tree Rd, Holopaw - Phase 1 of 4	Small Wire Upgrade	\$280,000	Expected December 2016
Southeast Orlando	Reconductor US-192 Holopaw (Phase 3)	Small Wire Upgrade	\$150,000	Expected December 2014
Southeast Orlando	Reconductor 2/0 Cu OH with 795 AAC Daetwyler Dr., Winona Dr.	Small Wire Upgrade	\$195,000	Expected December 2015
Walsingham	Reconductor 4/0 Cu on Bay Pines Blvd with 795 AAC	Small Wire Upgrade	\$133,000	Expected December 2015
Winter Garden	Sabrina Drive Back_lot	Small Wire Upgrade	\$21,983	Expected December 2014
Winter Garden	Pine Street Windermere	Small Wire Upgrade	\$33,345	Expected December 2014

6. Please refer to pages 18-25 of the updated storm hardening plan.
 - a. Please provide the estimated cost of each project listed.
 - b. Please provide the estimated time of completion for each project listed.

RESPONSE:

Please see the attached chart bearing Bates Nos. 13STORM-STAFF-DR1-6-000001 through 13STORM-STAFF-DR1-6-000004.

7. Please refer to page 1 of the ongoing storm preparedness plan. Please provide the total number of miles trimmed for feeders and laterals for 2010, 2011, and 2012.

RESPONSE:

	2010 Actual	2011 Actual	2012 Actual
Feeder Miles	787	2,370	196
Lateral Miles	4,139	1,132	3,228
Total Miles	4,926	3,502	3,424

8. Please refer to page 3 of the ongoing storm preparedness plan. Please provide the number of actual and estimated inspections, by year, from 2010 and 2015.

RESPONSE:

Year	Joint Use Inspections	Actual or Estimated
2010	62,361	Actual
2011	65,302	Actual
2012	66,565	Actual
2013	65,226	Estimated
2014	64,864	Estimated
2015	64,864	Estimated

9. Please refer to page 16 of the ongoing storm preparedness plan. Please provide the salaries for the governmental coordination team.

RESPONSE:

DEF has estimated the amount of time that each member of the governmental coordination team allocates to that function and multiplied each member's base salary by the estimated percentage, resulting in an estimated allocation of each member's base salary to their role on the governmental coordination team. Please see the attached for the allocated salaries for each member of the team bearing Bates Nos. 13STORM-STAFF-DR1-9-000001 through 13STORM-STAFF-DR1-9-000003.

10. Please refer to page 22 of the ongoing storm preparedness plan. Please explain any lesson learned from DEF's involvement with Hurricane Sandy.

RESPONSE:

Superstorm Sandy lessons Learned

In December of 2012, we were presented with the EEI assistance award for our efforts for support for Superstorm Sandy. Sandy was a very large, powerful and destructive storm, resulting in the largest number of storm outages in U.S. history. The high winds, flooding, rain, and snow from Hurricane Sandy, and the ensuing Nor'easter Athena, created damage that left approximately 10 million customers without power. Duke Energy Florida deployed more than 600 of the 2,900 total employees and contractors from the Florida, Midwest and Carolina service territories. This was the company's largest ever off-system deployment.

During the deployment several lessons were identified:

Operational Lessons Learned

- Develop more formal agreements/procedures/arrangements on tolls, bridges, tunnel payments and weigh stations for resources providing mutual assistance.
 - Duke Energy and other members of our mutual assistance organization (SEE) is working with EEI, State and Federal regulators to develop potential solutions.
- Embedding Damage Assessment teams and Damage Assessment leadership proved invaluable.
 - Duke Energy has developed formalized strike teams for deployment that include both Damage Assessors and leadership to support restoration efforts.
- Daily weather forecasts specific to the location our employees were deployed to keep our teams informed of post-storm conditions.
 - These location specific weather forecasts have become a standard when Duke Energy is deployed.

Crew Support Lessons Learned

- Embedding staff with specific support skills and responsibilities in strike team (Staging & Logistics, Registered Nurse, etc).
 - Duke Energy has developed formalized strike teams for deployment that include nurse support to restoration efforts.
- Dedicating resources back home to provide 24/7 point of contact for all strike teams needs (for employees and family members).
 - Providing 24/7 support for strike teams during deployment have become the standard when Duke Energy is deployed.
- Daily safety calls that included all supervisors and a representative from each working group to share observations and hazards.
 - Daily safety calls have become a standard when Duke Energy is deployed

- Productivity can be greatly affected by the flow of work from the host company to off-system resources. Work packets best issued from a staging site vs. an operations center.
 - Based on our experience is support of Superstorm Sandy, Duke Energy has modified/enhanced our work flow issuance process to distribute work to off-system resources at the staging site.
- Staging site logistics have major affect on daily restoration performance, i.e. busing from hotel to staging sites, lack of a feeding schedule and fueling, etc.
 - Duke Energy has initiated several staging site performance related enhancement:
 - On-Boarding process
 - Schedule adherence
 - Adding new Operational leader and Resource Management at staging sites
 - Transitioned specific fleet and material related task from daytime to overnight

11. Please complete the table below.

	Actual / Estimated Costs					
	2010	2011	2012	2013	2014	2015
8 Year Wooden Pole Inspection Program	2,650,416	2,328,407	2,559,172	2,399,772	2,400,000	2,900,000
10 Storm Hardening Initiatives						
A Three Year Vegetation Management Cycle for Distribution Circuits	30,251,178	19,282,335	24,459,265	25,193,043	25,948,834	26,727,299
An Audit of Joint Use Attachment Agreements	493,833	479,684	537,528	553,654	570,263	587,371
A Six Year Transmission Structure Inspection Program	15,273,420	17,406,077	19,650,810	20,240,334	20,847,544	21,472,971


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 DEF Response Staff's 1st
 Data Requests Nos. 1-11
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Hardening of Existing Transmission Structures	107,070,806	81,794,465	90,771,847	93,495,002	96,299,852	99,188,848
Transmission and Distribution GIS (see note 1)	NA	NA	NA	NA	NA	NA
Post Storm Data Collection and Forensic Analysis (see note 2)	NA	NA	NA	NA	NA	NA
Collection of Detailed Outage Data Differentiating Between the Reliability Performance of Overhead and Underground Systems (see note 3)	NA	NA	NA	NA	NA	NA
Increased Utility Coordination with Local Governments (Refer to Q 9)	NA	NA	NA	NA	NA	NA
Collaborative Research on Effects of Hurricane Winds and Storm Surge (see note 4)	-	-	-	-	-	-
A Natural Disaster Preparedness and Recovery Program.(see note 5)	NA	NA	NA	NA	NA	NA
Any Other Key Elements or Proposed Initiatives (see note 6)	29,405,600	30,061,238	41,288,925	42,527,593	43,803,421	45,117,523

Notes:

1. All existing and new distribution facilities are recorded in GIS, no incremental cost for conversion.
2. No major hurricane events since 2010, therefore no costs associated with Post Storm Data Collection and Forensic analysis to report.
3. Data is collected under normal business processes, no incremental cost.
4. No new PURC sponsored research projects since 2010.
5. Annual planning and training for DEF's natural disaster and recovery program is part of core operations, as such incremental costs are not recorded. Activities include:
 - Annual storm plan reviews
 - Employee storm role assignments and training
 - Restoration process incorporated into various meetings throughout the year
 - Annual storm drills and tabletop exercises
 - Participation in local and state drills/exercises
 - Lessons learned reviews from drills and actual events
6. "Any other Key Elements or Proposed Initiatives" - Includes the following type of Distribution projects:
 - Small Diameter Conductor Upgrade (Cap)
 - Mid Feeder Electronic Reclosers (Cap and O&M)
 - Wood Pole Replacements (Cap)
 - Padmount Transformer Replacements (Cap)
 - Storm Hardening Upgrades (Cap)
 - Network Maintenance (Cap and O&M)

Respectively submitted,


on behalf of
Duke Energy Florida, Inc.

Attachments

Storm Job Title	Allocated Salary
Storm Coordinator	7489.32
State EOC Storm Coordinator	2843.483
District Manager	2074.325
District Manager	1854.894
District Manager	2044.172
District Manager	1964.98
District Manager	1927.075
District Manager	1850.277
Manager, Large Account Manager (LAM)	2711.452
State EOC Representative	473.82
State EOC Representative	748.79
State EOC Representative	1200
State EOC Representative	1401.29
EOC Representative	2242.95
EOC Representative	2991.275
EOC Representative	2169.775
EOC Representative	2312.925
EOC Representative	2226.5
EOC Representative	2935.15
EOC Representative	1770.3
EOC Representative	2769.325
EOC Representative	2598.8

EOC Representative	2521.325
EOC Representative	1945.2
EOC Representative	1857.6
EOC Representative	0
EOC Representative	2021.4
EOC Representative	2044.8
EOC Representative	3188.05
EOC Representative	1953.4
EOC Representative	3514.38
EOC Representative	1958.95
EOC Representative	2321.725
EOC Representative	2088.775
EOC Representative	1918.775
EOC Representative	2636.175
EOC Representative	1980.3
EOC Representative	2357.95
EOC Representative	2000
EOC Representative	2514.975
EOC Representative	2445.35
EOC Representative	2521.15
Administrative Support	969.68
District Manager Back-Up	687.59
District Manager Back-Up	842.28

District Manager Back-Up	426.19
District Manager Back-Up	1650
District Manager Back-Up	1287.2
District Manager Back-Up	459.68
District Manager Back-Up	785
District Manager Back-Up	860.59
District Manager Back-Up	433.32
District Manager Back-Up	633.98
District Manager Back-Up	699.36
District Manager Back-Up	421.2
District Manager Back-Up	1174.43
District Manager Back-Up	1370.18
District Manager Back-Up	1239.7
District Manager Back-Up	532.89
District Manager Back-Up	620.67
District Manager Back-Up	1310.22
LAM Support	559.64
LAM Support	682.86
LAM Support	672.76
LAM Support	813.98
LAM Support	395.2
LAM Support	374.76

Transmission_Storm_Hardening
Submittal

NORTH FLORIDA AREA	Project Type	County	Third Party Impact	ISD	COST ESTIMATE
Alachua to GE Alachua (GH-2, 4.37mi) 69kV Line Rebuild	Rebuild	Alachua	Likely	S16	2,000,000
Nobleton Tap - Floral City Tap 69 kV line rebuild	Rebuild	Citrus	Possible	W16	4,500,000
Carrabelle Bch Tap to Eastpoint (14.14mi) 69kV Line Rebuild	Rebuild	Franklin	Unlikely	S15	7,800,000
Carrabelle to Carrabelle Bch Tap (1.7mi) 69kV Line Rebuild	Rebuild	Franklin	Unlikely	W14	1,900,000
QX 115kV 10.85 mile rebuild (Atwater - Quincy (QX-1))	Rebuild	Gadsden	Unlikely	S15	7,200,000
Rebuild 115kV JQ-12 Line Havana to Brdfrdvl W 10.53 miles	Rebuild	Gadsden	Likely	S13	8,200,000
Jackson Bluff to Brickyard Tap	Rebuild	Hamilton	Unlikely	W13	6,300,000
Rebuild Existing Jasper-Wrights Chapel 115kV Tie (9.59 mi)	Rebuild	Hamilton	Possible	S15	9,000,000
Liberty-Jackson Bluff 69KV Line Reblnd w/design for fut 115KV	Rebuild	Leon	Possible	W14	13,000,000
JQ 1.7 West Lake-Burnham Tap 115 kV rebuild; 1.53 mi	Rebuild	Madison	Unlikely	N/A (Canceled due to change in plan)	0
SI 69kV 4 mile Line Rebuild - Williston to Williston (CFEC)	Rebuild	Marion	Likely	W14	1,856,282
Proctor Tap to Cara Tap 69 kV Line Rebuild	Rebuild	Marion	Unlikely	S15	4,000,000
MS-128 TO MS-135 MARION NW 35TH-49TH ST/ NW 27TH AV TO US441	Rebuild	Marion	Likely	W13	422,846
Pincastle - Sky Lake (WR-7) - 69 kV Rebuild 2.34 miles PCSL	Rebuild	Orange	Possible	S14	4,100,000
Narcoossee to Rio Pinar (WR) - 69 kV Line Rebuild	Rebuild	Orange	Possible	S15	5,200,000
Windermere-Bay Hill (WT) - 69 kV Rebuild 3.66 miles	Rebuild	Orange	Possible	S14	4,200,000
Lake Bryan to Vineland (LV) - 69 kV Line Rebuild	Rebuild	Orange	Possible	S16	4,800,000
Plymouth South Sub - Relocation of PP, WP & EP Lines	Rebuild	Orange	Likely	S15	600,000
NR-71 to NR-72 253F ORANGE SR408/SR 417 INTERCHANGE IMPROV	Rebuild	Orange	Possible	W14	258,432
CFCX 69kV dedicated line to SECO Continental Sub	rebuild	Sumter	Likely	W13	191,977
JF-3 Ft White - Live Oak 69kV rebuild, 25.45 miles	Rebuild	Suwannee	Unlikely	N/A (Canceled due to change in plan)	0
Boyd Tap to Scanlon Tap (DP-3) 69kV rebuild, 8.0 mi	Rebuild	Taylor	Likely	S14	4,500,000
Eridu Tap to Scanlon Tap (DP-2) 69kV rebuild, 5.24 mi	Rebuild	Taylor	Likely	S14	5,600,000
Drifton to Eridu Tap (DP-1) 69kV rebuild, 13.48 mi	Rebuild	Taylor	Likely	S14	2,700,000
PC line; Rebuild Line-Replace 132 Wood Poles w/ Steel[PRG]	Rebuild	Taylor	Possible	S15	2,764,636
Deland West - DeLeon Springs 115kV & DWB Rebuild	Rebuild	Volusia	Likely	W13	9,400,000
GUF Alachua Archer Rd frm SW16th -SW13th City of Gainesville	Governmental	Alachua	Likely	W14	200,000
CLT & CC CITRUS 405270-3-52-01 SR589 SUNCOAST PKWY II-SECT 1	Governmental	Citrus	Possible	W20 (Government plans delayed)	1,000,000
CSB-93 405270-4-52-01 Citrus Suncoast Pkwy II N.Card-CR486	Governmental	Citrus	Possible	W20 (Government plans delayed)	350,000
Green Acres St to N of West Jump Ct; Road Widening, Improvements & Drainage	Governmental	Citrus	Unlikely	S14	43,126

Transmission_Storm_Hardening
Submittal

069kV CEB Hooks and Grand Sanitary Sewer	Governmental	Lake	Unlikely	W08 (Completed in prior plan)	901,000
OLR-69kV-CR. 470 widening Lake Co. PWDED	Governmental	Lake	Possible	W15	250,000
LC ## 238395-5-52-01 Lake SR500 Lake Ella to Avenida Central	Governmental	Lake	Unlikely	W17 (Government plans delayed)	500,000
LE - Transfer LE to Dbl Ckr on CFS Strs	Governmental	Lake	Likely	S14	330,140
DR-90 to DR-98 238720-1-52-01 Marion SR40; SR45/US41 to CR328	Governmental	Marion	Unlikely	W14	400,000
DR-36 to DR-94 238648-1 Marion SR45	Governmental	Marion	Unlikely	W14	2,900,000
MS-128 TO MS-135 MARION NW 35TH-49TH ST/ NW 27TH AV TO US441	Governmental	Marion	Unlikely	W13 (Cost merged into line item Rebuild MS-128)	0
410674-3-52-01;SR 40 East of CR 314 to east of CR 314A;	Governmental	Marion	Possible	S14	90,000
242484-6-52-01 Orange SR-400 Ext-Maitland over Keller Rd	Governmental	Orange	Possible	W17 (Government plans delayed)	1,502,820
NR-69_CIP 5029_ORANGE_VALENCIA COLLEGE LANE WIDE & IMPROVE.	Governmental	Orange	Possible	N/A (No conflict with customer plan)	0
WO 69kV Underground Relocation on Fairbanks Avenue	Governmental	Orange	Yes	W14	10,500,000
NR-71 & -72 230kV 253F; SR 417/SR 408 Interchange Improvements	Governmental	Orange	Possible	W14	258,432
SLE 69kV relocation for Kennedy Blvd widening (Orange Cnty)	Governmental	Orange	Likely	W13	71,947
SLM 69kV relocations for Kennedy Blvd widening (Orange Cnty)	Governmental	Orange	Likely	W13	429,147
SLM 69kV relocations for Kennedy Blvd widening (Orange Cnty)	Governmental	Orange	Possible	W13 (Duplicate entry)	0
WO 69kV relocation for Kennedy Blvd widening (Orange Cnty)	Governmental	Orange	Likely	W13	83,590
WO 69kV relocation for Kennedy Blvd widening (Orange Cnty)	Governmental	Orange	Possible	W13 (Duplicate entry)	0
69kV EP 431081 Wekiva Pkwy from US 441 to Ponkan	Governmental	Orange	Unlikely	W14	1,800,000
69kV BK 431081 Wekiva Pkwy at the Y interchange	Governmental	Orange	Unlikely	S17 (Government plans delayed)	837,000
230kV PS-94 431081 Wekiva Pkwy at the Y interchange	Governmental	Orange	Yes	W17 (Government plans delayed)	832,000
69kV EP 431081 Wekiva Pkwy at US441 and SR 46	Governmental	Orange	Unlikely	S17 (Government plans delayed)	315,000
WR and RW 69kV Relocation for Econ Trail	Governmental	Orange	Likely	W13	194,653
FPID 242484-5-32-01 WO 69kV Relocation for I-4 Widening	Governmental	Orange	Possible	W17 (Government plans delayed)	835,103
FTO FTO-141 415030-1-38-01 SEMINOLE CO. SR426/CR419 WIDENING	Governmental	Seminole	Unlikely	W14	150,000
ASL-58 FPID#242592-3-32-01 SEMINOLE STATE ROAD 400 (I-4)	Governmental	Seminole	Possible	S15	154,090
ASW-17,18,19 242592-2-52-01 Seminole Cnty SR400/ I-4	Governmental	Seminole	Unlikely	W13	114,785
WEWC-WF 417545-1-52-01, SEMINOLE, SR417 BRIDGE MOD @ SR426	Governmental	Seminole	Unlikely	W16	100,000
WF 69kV & WEWC 69kV CIP 001981-01; Dean Road widening;	Governmental	Seminole	Possible	W14	740000
NLA-23 to NLA-29 69kV 412994-3-52-01 CSXT Comm Rail Longwood	Governmental	Seminole	Yes	W12	383,000
ASL-58 FPID#242592-3-32-01 SEMINOLE STATE ROAD 400 (I-4)	Governmental	Seminole	Unlikely	S15 (Duplicate entry)	0
230kV DA, DL & DWS 431081 Wekiva Pkwy at I-4 and SR 46/SR 417	Governmental	Seminole	Unlikely	W14	650,000

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WA 69 kV Relocation- SR15/600 Interchange @ SR436- #404418-1	Governmental	Seminole	Unlikely	S14	421,541
BCF 69kV_CR-468 Four lane curb and Gutter expansion	Governmental	Sumter	Likely	W13	1,131,092
CRCF,CCF,IT,CLT,CC CITRUS 405270-5-52-01 SNCST PKWY II-SCT 3	Governmental	Sumter	Possible	W20 (Government plans delayed)	1,700,000
BCF 69kV_CR-468 Four lane curb and Gutter expansion	Governmental	Sumter	Possible	W13 (Duplicate entry)	0
DWB,410251-1-52-01, Volusia Co, SR 15/US 17	Governmental	Volusia	Possible	W14	600,000

SOUTH FLORIDA AREA	Project Type	County	Third Party Impact	ISD	COST ESTIMATE
HCR-12 115kV SR- 55 CITRUS.405822-2-52-01	Rebuild	Citrus	Possible	S14 (Duplicate entry)	0
FV124-128 230kv 5mi Relocation for CF Industries	Rebuild	Hardee	Likely	W15	10,136,821
Brooksville West-Weeki Wachee Switch - 115 kV line rebuild	Rebuild	Hernando	Possible	S14	2,500,000
Avon Park-SunNLakes 69 kv Rebuild, 4.82 miles	Rebuild	Highlands	Likely	W15	4,400,000
Desoto City to Desoto City Tap 69 kV Line Rebuild	Rebuild	Highlands	Possible	W13	2,100,000
Dinner Lake-Phillips Tap (PDL-2) - Rebuild 69 kV, 2.77 miles	Rebuild	Highlands	Possible	S14	3,000,000
Denham to Morgan Rd Line #1	Rebuild	Pasco	Possible	W15	400,000
BZ-384 TO BZ-386 C-3216.30 Pasco Clinton Ave road improve	Rebuild	Pasco	Possible	S13	423,016
NP-4 thru NP-8 FIN: 256931-2-52-01 Gandy to 4th St	Rebuild	Pinellas	Possible	W14	852,230
Land O Lakes - Denham line reroute to Morgan Road substation	Rebuild	Pinellas	Possible	W15	430,000
Denham - Tampa Downs line reroute to Morgan Road substation	Rebuild	Pinellas	Possible	W15	450,000
Oakhurst - Seminole - Rebuild 69kV Line	Rebuild	Pinellas	Possible	S18 (Based on latest studies)	3,275,000
BNUG 115 kV_Northeast Sub FIN:256931-2-52-01 Gandy to 4th St	Rebuild	Pinellas	Unlikely	W13	244,761
ICB 69kV 8.25 mi rebuild (I. City to Barnum City)	Rebuild	Polk	No	W13	8,300,000
WLLW 69kV 4.52 mile rebuild (West Lk Wales-LkWales #1)	Rebuild	Polk	Possible	W20 (Based on latest studies)	6,000,000
Avon Park-Avon Park North 69 kV Rebuild, 3.69 mi	Rebuild	Polk	Possible	W14	3,500,000
Lake Wales-Crooked Lake Tap 69 kV Line Rebuild 1.03 mi	Rebuild	Polk	Possible	W13	2,500,000
ICB-188 TO ICB-236 197534-2-52-01 POLK SR-25 (US27)	Rebuild	Polk	Possible	W14	48,734
ICB & BMF Polk-US27 Barry Rd. to Lake Cnty 197534-4-52-01	Rebuild	Polk	Possible	W13	1,356,587
HT-39, -40 & -42; 405822-3-52-01 SR 55 from Jump Ct to W Fort Island Trail (SR 44)	Governmental	Citrus	Unlikely	W15	5,400,000
CLT-175 TO CLT-178_257298-6-52-01_HERNANDO_CR578	Governmental	Hernando	Unlikely	W13	100,000
ALP, 605-610, 431383-1-52-01, HIGHLANDS, STATE ROAD # 25	Governmental	Highlands	Possible	N/A (No conflict with customer plan)	0
WLB, WLB-2, ORANGE CO, GRANDNATIONAL OVERPASS	Governmental	Orange	Possible	W14	308,000

Transmission_Storm_Hardening
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WR and RW 69kV Relocation for Econ Trail	Governmental	Orange	Possible	W13	194,653
TMS 69kV Relocation Taft-Vineland Rd from SOBT to Orange Ave	Governmental	Orange	Possible	W16	400,000
SCP Relo-Bee Line Exp of John Young Bridge 406090-1-52-01	Governmental	Orange	Possible	S20 (Government plans delayed)	0
69kV TMS-89 & -90 412994; Sunrail Phase II, Meadow Woods Park and Ride Station	Governmental	Orange	Yes	W16	480,000
ZNR 44, 57, 58 CIP 6360 Pasco Co Zephyrhills Bypass West Gap	Governmental	Pasco	Likely	W17 (Government plans delayed)	150,000
416561-2-52-01; SR 54 from eo CR 577 to eo CR 579 (Morris Bridge Rd)	Governmental	Pasco	Likely	W15	131,000
BZ-384 TO BZ-386 C-3216.30 Pasco Clinton Ave road improve	Governmental	Pasco	Yes	S13 (Duplicate entry)	0
418325-1,2-52-01; SR 54 from US 19 to Gunn; CR 1 from SR 54 to Embassy Blvd-Ridge Rd; Ridge Rd from US 19 to Broad St	Governmental	Pasco	Highly Unlikely	N/A (No conflict with customer plan)	0
NP-4 thru NP-8 FIN: 256931-2-52-01 Gandy to 4th St	Governmental	Pinellas	Unlikely	W14 (Duplicate entry)	0
LSP LSP-12 922252 PINELLAS CO. STARKEY ROAD	Governmental	Pinellas	Unlikely	W17 (Government plans delayed)	115,000
LSP-71-74 PID921321 PINELLAS TRAIL 97TH WAY	Governmental	Pinellas	Unlikely	W17 (Government plans delayed)	400,000
413622-2-52-01 - CR-296 (118TH AVE.)	Governmental	Pinellas	Unlikely	W15	460,000
LSP15-17 PID2182 PINELLAS STARKY RD-BRYAN DAIRY RD IMPROV.	Governmental	Pinellas	Unlikely	N/A (No conflict with customer plan)	0
BNUG 115 kV_Northeast Sub FIN:256931-2-52-01 Gandy to 4th St	Governmental	Pinellas	Unlikely	W13 (Duplicate entry)	0
CPM-24 TO CPM-25_12043-112_PINELLAS_CITY OF ST.PETE, ADA	Governmental	Pinellas	Unlikely	N/A (No conflict with customer plan)	0
ICB-188 TO ICB-236 197534-2-52-01 POLK SR-25 (US27)	Governmental	Polk	Likely	W14	48,734
ICB & BMF Polk-US27 Barry Rd. to Lake Cnty 197534-4-52-01	Governmental	Polk	Likely	W13 (Duplicate entry)	0
115kV DC-59 to -60 CIP 4904; Rhode Island Ave, From Veterans Memorial Parkway to Normandy Blvd	Governmental	Volusia	Unlikely	W14 (No conflict with customer plan)	0