

Carlotta Stauffer

From: Tom Ballinger
Sent: Friday, April 27, 2018 3:28 PM
To: Carlotta Stauffer
Subject: FW: Docket 20170215 - DEF OH v. UG and Hardened v. Non-Hardened
Attachments: 20170215 DEF Worksheets.pdf

Could you please add this to the documents in Docket No. 20170215-EU? Thank you.

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From: Kaniecki, Chris M. [<mailto:Chris.Kaniecki@duke-energy.com>]
Sent: Friday, April 27, 2018 3:17 PM
To: Tom Ballinger
Cc: Triplett, Dianne; Bernier, Matt; Robert Pickels; Tibbetts, Arlene; West, Monique
Subject: Docket 20170215 - DEF OH v. UG and Hardened v. Non-Hardened

Good Afternoon:

Attached are two worksheets from Duke Energy Florida, LLC, comparing replacements/repairs of overhead to underground facilities and replacement/repairs of hardened to non-hardened poles regarding the above-subject Docket.

Thank you for your attention to this matter.

Chris M. Kaniecki

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Hardened v. Non-Hardened Worksheet for Hurricane Irma
 (poles/towers in absolute numbers; not percentages)

	Hardened Overhead Total	Hardened* Overhead Replaced / Repaired	Non-Hardened Overhead Total	Non-Hardened Overhead Replaced / Repaired
Transmission	29,499	0	21,285	139 wood poles**
Transmission Towers	1095 (replaced/rebuilt)	0	2340 (replaced/rebuilt)	3 towers
Distribution***	n/a	n/a	n/a	n/a

* DEF defines hardened transmission structures as new, repaired or replaced structures since the 2006/2007 Storm Hardening Plan began. Hardened structures consist of any new structures (steel or concrete) or any previously wood structures replaced with steel or concrete materials. DEF considered steel & lattice structures in place prior to the Hardening Plan to be “non-hardened”--they were not part of the original baseline for “hardened” as they were in place prior to 2006/2007.

** DEF originally stated that 148 transmission structures were replaced; 142 structures were actually replaced/repaired and it was later determined that 6 of these structures did not need replacement.

*** DEF does not record damaged poles as “hardened” or “non-hardened” during restoration activity. A total of 2,130 poles were replaced during the restoration of damage from Hurricane Irma. To better understand the nature of the storm damage on DEF’s system, a forensic report was conducted on 526 randomly selected replaced poles after Hurricane Irma. The report found that none of the selected poles were part of a storm hardening project. Therefore, 29 storm hardening project areas were selected for further analysis; no broken poles were discovered in any of the selected storm hardening projects.

DUKE ENERGY FLORIDA, LLC

Overhead v. Underground Worksheet for Hurricane Irma
 (repairs per mile?) (what units for UG/OH comparison?)

	Underground Total	Underground Replaced / Repaired	Overhead Total	Overhead Replaced / Repaired	Combined Total	Combined Replaced / Repaired
Transmission	69.83*	0	5139.32*	0	5209.15*	0
Distribution**	14,140	4.3	17,993	324	32,133	328.3
Feeder	n/a	n/a	n/a	n/a	n/a	n/a
Lateral	n/a	n/a	n/a	n/a	n/a	n/a

* Circuit miles.

** DEF does not track repaired conductors during a major event. The information above shows the amount of conductor that was replaced during Hurricane Irma. This information is based on the material charged out during the storm; differentiating between feeder and lateral is not possible because the size of the conductor does not necessarily determine the type of circuit.

Additional information comparing the overall outage performance of overhead versus underground facilities, at the feeder and lateral level, is available on Page 13 of the PowerPoint Slide Deck provided by DEF for the Docket No. 20170215 Workshop.