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An Exelon Company

# *Downers Grove*

## **Reliability Report**

**September 15, 2011**

Reliability throughout the ComEd service territory – including Downers Grove – is strong and among the top 25 percent of utilities nationally.

- More than 95 percent are restored within 24 hours.
- Approximately 75 percent of outages in Downers Grove are restored within four hours.

ComEd has invested nearly \$10 billion in its transmission and distribution system in the last decade. During that time:

- Nearly 40 percent fewer customer interruptions
- Power was restored 34 percent faster.

- ✓ The Village of Downers Grove has 20,200 customers and is served by 46 distribution circuits.
  - 41 of the distribution circuits originate from six 138kV Stations (TSS103 Lisle, TSS136 Burr Ridge, TSS145 York Center, TDC 557 Butterfield, TDC559 Woodridge and TDC580 Downers Grove).
  - Five of the distribution circuits originate from three 34kV Stations (DCW43, DCW41 and SS558 Westmont)

- ✓ **Circuit Inspection Program** - completed every 4 years
- ✓ **Thermo Scan Program** – completed every 4 years.
- ✓ **Full Circuit Tree Trimming** – completed every 4 years
- ✓ **Circuit Capacity Improvement** - annual performance analysis
- ✓ **Substation Capacity Improvement** - annual performance analysis
- ✓ **1% Circuit Program** - annual performance analysis
- ✓ **Cable Diagnostic Testing** - annual performance analysis
- ✓ **Customer Targeted Program** - annual performance analysis
- ✓ **Distribution Automation Program (12kV & 34kV)** - annual performance analysis
- ✓ **Miscellaneous Reliability Improvements** - annual performance analysis
- ✓ **Underground Cable Program** - annual performance analysis

## *Reliability Work completed in Downers Grove*

- ✓ W8017
  - Install Distribution Automation Device N/59<sup>th</sup>, E/Woodward, complete 2010
  - Replaced three poles and upgraded lightning protection (Maple Ave., George St.), complete 2010
- ✓ W4572
  - Install Distribution Automation Device on Fairview between Ogden Ave and Grant St., complete 2009
- ✓ W031
  - Install Distribution Automation Device N/Burlington Ave, E/Carpenter St., complete 2010
  - Install Distribution Automation Device on Ogden Ave, E/Finley Road, complete 2010
- ✓ W039
  - Replace Underground Cable (1,200') from I-355 to Walnut Ave, complete 2007
  - Install Distribution Automation Device on College Road, W/Chase Ave., complete 2010
  - Upgrade lightning protection (63<sup>rd</sup> St and Stonewall Ave.) complete 2010
- ✓ W4101
  - Replace underground cable (1,200') from Venard Rd to Saratoga Ave, complete 2008
  - Install Hendrix Cable between Main St and Highland Ave from 40<sup>th</sup> St. to 41<sup>st</sup> St., complete 2009
  - Install Hendrix Cable near Belleaire Ln and Rove Ave, complete 2009
  - Install Distribution Automation Device on 41<sup>st</sup> St. and Forest Ave., complete 2009
  - Upgrade lightning protection (W/Venard and N/Ogden), complete 2010

## *Reliability Work completed in Downers Grove*

- ✓ W455Y
  - Replace underground cable (3,300') from Pomeroy Rd to Barberry Ct , complete 2010
- ✓ W0325
  - Install 670' of Hendrix Cable between W/Linscott Ave., Prairie Ave. to Chicago Ave, complete 2007
  - Install Distribution Automation Device on Chicago Ave, W/Highland Ave., complete 2007
- ✓ W8011
  - Replace underground cable (600') from Main St. to Lancaster Ave. complete 2010
  - Re-tension reduced tension span (S/63rd St. between Barrett St. and Saratoga Ave), complete 2010
- ✓ W803
  - Replace underground cable 4,800' from Stonewall Ave to Dunham Road, complete 2009
- ✓ W458X
  - Cable Replacement (1,500' S/I88 between Meyers Rd and Royalbale Dr. complete 2008
- ✓ W4518
  - Turned URD Transformer due to retaining wall/access issues (N/38thSt S/Meyers Rd.) complete 1/2011
  - Replaced two spans of primary wire (37th St and Woodlawn Ave) complete 2010
- ✓ W8012
  - Upgrade transformer, replace pole (61st St. between Fairview Ave and Cumnor Rd.) complete 2010
  - Re-tension reduced tension span (60th St W/Cumnor Rd.) complete 2010
  - Install dead-ends and arresters at transformer (59th St. and E/Cumnor) complete 2010

## *New Reliability work to be completed in Downers Grove*

### ✓ W8017

- Perform “enhanced tree trimming” in the following areas:
  - S/ Maple Ave., between Middaugh Ave and Carpenter St
  - N/55<sup>th</sup> between Brookbank Rd. and Carpenter St.
  - S/Maple Ave, between Woodard Rd. and Sherman Ave.
  - 55<sup>th</sup> St. between Lyman St. and Main St.
- Replace equipment in the following areas:
  - Install 1,400’ of single phase Hendrix Cable (S/55<sup>th</sup> St. W/Middaugh Ave)

### ✓ W4572

- Perform “enhanced tree trimming” in the following areas:
  - Meyers Rd between White Oak Lane and 35<sup>th</sup> St
  - S/Ogden between Washington St. and Elm St.
- Replace equipment in the following areas:
  - Replace 500’ of underground cable W/School St. S/Herbert St.

### ✓ W031

- Perform “enhanced tree trimming” in the following areas:
  - Gilbert Ave and Carpenter St.

### ✓ W039

- Perform “enhanced tree trimming” in the following areas:
  - N/Maple Ave. between Walnut Ave. and Lomond Ave.
  - S/59<sup>th</sup> between Belmont Rd. and Pershing Ave.

### ✓ W4101

- No major reliability impact items identified as a result of this pocket reliability analysis

### ✓ W455Y

- Perform “enhanced tree trimming” in the following areas:
  - N/35<sup>th</sup> St between Saratoga Ave and Highland Ave
- Replace equipment in the following areas:
  - Install 3,600’ of single Hendrix Cable N/35<sup>th</sup> St. W/Highland Ave.

## *New Reliability work to be completed in Downers Grove*

- ✓ W036
  - Perform “enhanced tree trimming” in the following areas:
    - S/Randall St. between Benton Ave. and Blodgett Ave.
- ✓ W0325
  - Perform “enhanced tree trimming” in the following areas:
    - W/Linscott Ave., between Chicago Ave. and Lincoln Ave.
    - E/Forest Ave. between Lincoln St. and Prairie Ave.
- ✓ W8011
  - Perform “enhanced tree trimming” in the following areas:
    - W/Main St. between Palmer St. and 67th St.
    - N/S 62nd Pl. W/Carpenter St.
  - Replace equipment in the following areas:
    - Replace underground cable (500’) E/Main St. between Lancaster Ave. and Bonnie Brae Ave.
    - Install 700’ single phase Hendrix Cable N/62nd PL. W/Carpenter St.
- ✓ W803
  - No major reliability impact items identified as a result of this pocket reliability analysis
- ✓ W458X
  - Perform “enhanced tree trimming” in the following areas:
    - Meyers Rd. from I-88 to 35th St
    - 35th St. to Douglas Rd.
    - Douglas Rd. to N/Ogden Ave
    - N/Ogden Ave. to Cumnor Rd
- ✓ W8013 -
  - Perform “enhanced tree trimming” in the following areas:
    - South of 59th between Blodgett Ave and Osage Ave
- ✓ W0318 -
  - Perform “enhanced tree trimming” in the following areas:
    - Prairie Ave between Cornell and Lee Ave.

# Smart Grid Technology



**Analog meters mean there is no automatic map of where outages have occurred.**

**Other technology is available – but not in place in Illinois that would reduce the number of outages in the first place.**

## **A Modern Grid would help**

- **Fact: Our grid could be stronger in the face of such storms, as well as easier and less costly to restore service when problems do occur.**

## **A Modern Grid would...**

1. **Helps avoid outages in the first place.**
2. **Make restoration faster and less expensive.**

# *Appendix*

## *Hendrix Spacer Cable*

