

An Exelon Company

Executive Summary August Blast Storm 8/10/20

8/24/20

Agenda

- ✓ Weather
- ✓ Storm Impact
- ✓ Storm Damage
- ✓ Timeline weather with conditions and decisions overlaid
- ✓ ComEd's Response
 - Activation
 - Restoration Resources
 - Mutual Assistance
 - Base Camps/Incident Commands
 - Municipal Outreach
 - Generators
 - COVID19 Preparations and Precautions



Weather/Tornadoes

- ✓ In addition to straight-line winds, 15 tornadoes were confirmed within the broader area of severe winds across northern Illinois and northwest Indiana, 14 of which were within or near the service territory.
- ✓ This is the second highest number of tornadoes to occur on a single calendar day in NWS Chicago's area of responsibility, and the most to occur on a single calendar day in the month of August since 1950.
- ✓ This number of tornadoes within NWS Chicago's jurisdiction is second behind the June 30, 2014 "Double Derecho" and tied with the 15 tornadoes on June 22, 2016.
- ✓ Fourteen tornadoes are more than twice the average number of tornadoes for the month of August of any state in the continental United States; the average in August for Illinois is 2.5 (based on 1991-2015 data).
- In total, the derecho produced 20 confirmed tornadoes across Illinois, Wisconsin, and Indiana.



Preliminary Storm Impact

- ✓ The reportable storm affected over 860,000 customers
- ✓ 67% (540,000 customers) were restored within 24 hours from losing power (fastest in company history)
 - South Region accounted for 41% of the total
 - West Region accounted for 26% of the total
 - Chicago Region accounted 17% of the total
 - North Region accounted for 16% of the total





Storm Reports recorded during the 8/10 derecho

- Final customers were restored Sunday night
- ✓ Without system investments beginning in 2012, the storm would have impacted 700,000 more customer outages and extended restoration efforts for several more days.
- ✓ The Storm Difficulty Rating is a 10 (Max)



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ComEd Equipment Damage

- ✓ 1,132 poles replaced
- ✓ 433 distribution transformers
- ✓ 135 miles of wire and cable were used to repair lines damaged or downed during the storms







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Weather Forecast Timeline - Sunday



Weather Forecast Timeline – Monday Morning



Weather Forecast Timeline – Monday Afternoon



Company



200* ComEd, 308 COC and 200* Veg FTE's <u>NOT</u> available on Monday due to Isaias MA on the East coast *this number does not include support personnel

Weather Forecast Timeline - Tuesday





*Includes Distribution Line only and not support staff and supervisors

Wednesday 0700 Hrs

ComEd's Response



Storm Activation

Due to the severity of this storm, we activated 7 out of our 8 storm teams. Each shift was comprised of two storm teams in order to handle both ComEd and Mutual assistance crews.

Storm teams activated:

- Storm Teams Echo/Foxtrot/Golf primary duty
- Storm Teams Alpha/Bravo/Charlie/Delta called in for back up
- Storm Team Hotel on reserve, specific members called in (SIC)

This event was handled as an "all Hands-on deck" event. Using all our Craft and Management employees.



- ✓ Over 6,200 employees including mutual assistance and our Exelon Utilities OpCos from PECO, BGE, and PHI
- ✓ The EOC and all Regional Offices opened at 1300 on 8/10/2020 with full staffing:
 - Over the course of the next 7 days all ComEd storm teams were activated in support of this event = 1,300 employees
 - Distribution Overhead Resources = 725
 - Distribution Service Resources = 350
 - Contractor Overhead Resources = 787
 - Exelon Utility OpCo Resources = 174
 - Vegetation Resources = 925
 - Patroller Resources = 185
 - Wire Watcher Resources = 178
 - External Mutual Assistance Resources = 1,592
 - Total Resources = 6,216



Mutual Assistance

- ✓ ComEd initiated Mutual Assistance request during the storm event (first request was Monday, August 10 at 1600)
- ✓ ComEd initially requested over 2,000 distribution overhead employees
- ✓ Mutual Assistance employees were not immediately available due to ongoing storm support on the East Coast Hurricane Isaias
- ✓ ComEd received 2,085 employees

✓ Timeline of Mutual Assistance:

- 8/11 Tuesday 0 employees
- 8/12 Wednesday 843 employees
- 8/13 Thursday 1,679 employees
- 8/14 Friday 2,085 employees

*2,085 employees includes Mutual Assistance, EU OpCo and Vegetation Management contractor resources







Base Camps

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Base Camps

✓ ComEd established 4 major base camp sites. Each site was selected based on location of damage

Region	Base Camp	City
Chicago	University Illinois Chicago	Chicago
South	Hollywood Casino Amphitheatre West Parking Lot	Tinley Park
South	Joliet Jr. College	Joliet
West	Northern Illinois University	Dekalb

- ✓ 7 Feeder SPOC Teams were deployed (4 from ComEd, 1 from each of our Exelon OpCos) to manage the influx of mutual assistance crews
- Additional sites were identified for parking and material staging areas

Region	Material Staging Sites	City
Chicago	United Center (additional parking)	Chicago
South	Olivet Nazarene University (material staging area for Feeder SPOC Teams)	Bourbonnais
South	Strip Mall Parking Lot (material staging area for Feeder SPOC Teams (TDC 436)	Crest Hill
South	Incident Commander/Material staging area	Harvey
West	First Reformed Church (staging area for Feeder SPOC Teams)	Fulton









Command Vehicles

✓ Mobile Command Unit (MCU)

- Hillcrest Plaza at 1701 N Larkin with Feeder SPOC team
- ✓ Mobile Operations Center (MOC)
 - Tinley Park Base Camp

✓ Mobile Command Vehicle (MCV) "The Bus"

- · Harvey Incident Command
- ✓ Mobile Response Unit (MRU) Unit #2
 - Feeder SPOC team moved to various locations
 - Hillcrest Plaza at 1701 N Larkin with Feeder SPOC team
 - Lane Tech in Chicago
 - Chicago 502 Woodlawn Dr.

✓ Mobile Response Unit (MRU) Unit #1

 Hillcrest Plaza at 1701 N Larkin with Feeder SPOC team











Base Camps

- ✓ Each Base Camp included the following and complied with all COVID19 protocols (pre-access employee screening, face masks, social distancing, individual boxed meals)
 - Accommodation and parking for 500+ mutual assistance FTEs, trucks, trailers and equipment
 - · Training tent for onboarding and LOTO
 - Room for catering, dining tent
 - Sleeping, shower, laundry, bathroom trailers to accommodate 500 FTEs
 - · Handwashing stations
 - Material Staging area (minor and major material, poles, crossarms and transformers)
 - Dumpsters
 - Security
- \checkmark The trailers began arriving at the base camps sites on 8/11/20 at noon and were operational by the morning of 8/12/20
- Each base camp was staffed with an Incident Commander and multiple base camp personnel
- ✓ Vehicles parked at the base camp sites were fueled overnight for quick deployment in the morning
- ✓ The strategy was to close base camp sites as the Mutual Assistance crews moved. The base camps were closed in the following order: UIC, JJC, NIU and Tinley Park
- ✓ Material staging areas were closed as Feeder SPOC Teams moved to other areas for restoration.
- ✓ Environmental and LCS Reps performed a final walk down with the Base Camp Managers for all sites prior to closing.
- ✓ Upon Closing All remaining food was donated to the Thornton Township Foodbank in Harvey and Greater Chicago Food Depository.





Municipal Outreach

- ✓ Customer Operations and Governmental Affairs collaborated with community partners, mayors, and aldermen
- ✓ Due to concentrated outages, ComEd opened six Joint Operating Centers to work with municipal leaders to prioritize critical customers and align on restoration priorities – the most deployed since introduced since 2012...
- ✓ Across 11 communities to venues including food pantries, village halls, nursing homes, and social service agency centers ComEd delivered over 3,600 care packages of Flashlights, 2,200 chargers, 1,400 bottles of hand sanitizers, and 1,400 cases of water and 500 bags of ice
- ✓ Call Center fielded over 1 million inbound calls during the week and made over 1,000 outbound calls to customers with extended outages beginning on the evening of August 14
- ✓ The Joint Information Center monitored over 26,000 inbound social media interactions
- Communications fielded over 70 media requests for outage information and prepared leaders for or directly participated in 20 interviews
- Communications also facilitated an interview with Cheryl Maletich (SVP, Transmission & Substation) in Harvey that was attended by all five local television stations
- Five press releases were issued throughout the course of the event



Generators



✓ Deployed 4 – 2mw generators picking up

- Markham pumping station
- Children's home
- Med center
- Walt's Food Center
- ✓ Deployed 4 250kw generators picking up
 - Various senior/nursing facilities
 - Incident command rebuilt G767, G765, 34kV L7661 in ROW, and G58

*Information provided from incident command

COVID19 Preparations and Precautions

- All storm remote roles working remote, no major issues identified. 65% of all storm roles were remote
- Extra staffing on site presented minor issues with moving workstations
- ✓ Storm room cleaning at turnover worked well, some cleaning staff were not timely, some were not easily accommodated by storms teams not doing a virtual turnover early in the storm this was addressed
- ✓ Base camp safety lead by 3rd party vendor
- \checkmark Did have one suspected case from



Best Practices and Areas of Improvement

Best Practices:

- ✓ No COVID19 cases as a result of storm response
- Calling base camps early (need trigger)
- COVID precautions put in to place early (including ESCC document)
- ✓ 65% of storm response roles were able to remote report

Areas of Improvement:

- ✓ Could not get MA resources quickly
 - Many resources engaged in Isaias and
 - Need to enhance relationships with aggregators
- Need to establish a MA onboarding packet with basic info
- Had enough dispatching stations available, but could not use all due to social distancing

