



# Sub Regional RTEP Committee Western Region ComEd

January 11, 2019



Need Number: COMED-2018-0001

Meeting Date: 1/11/2019

Process Stage: Solution

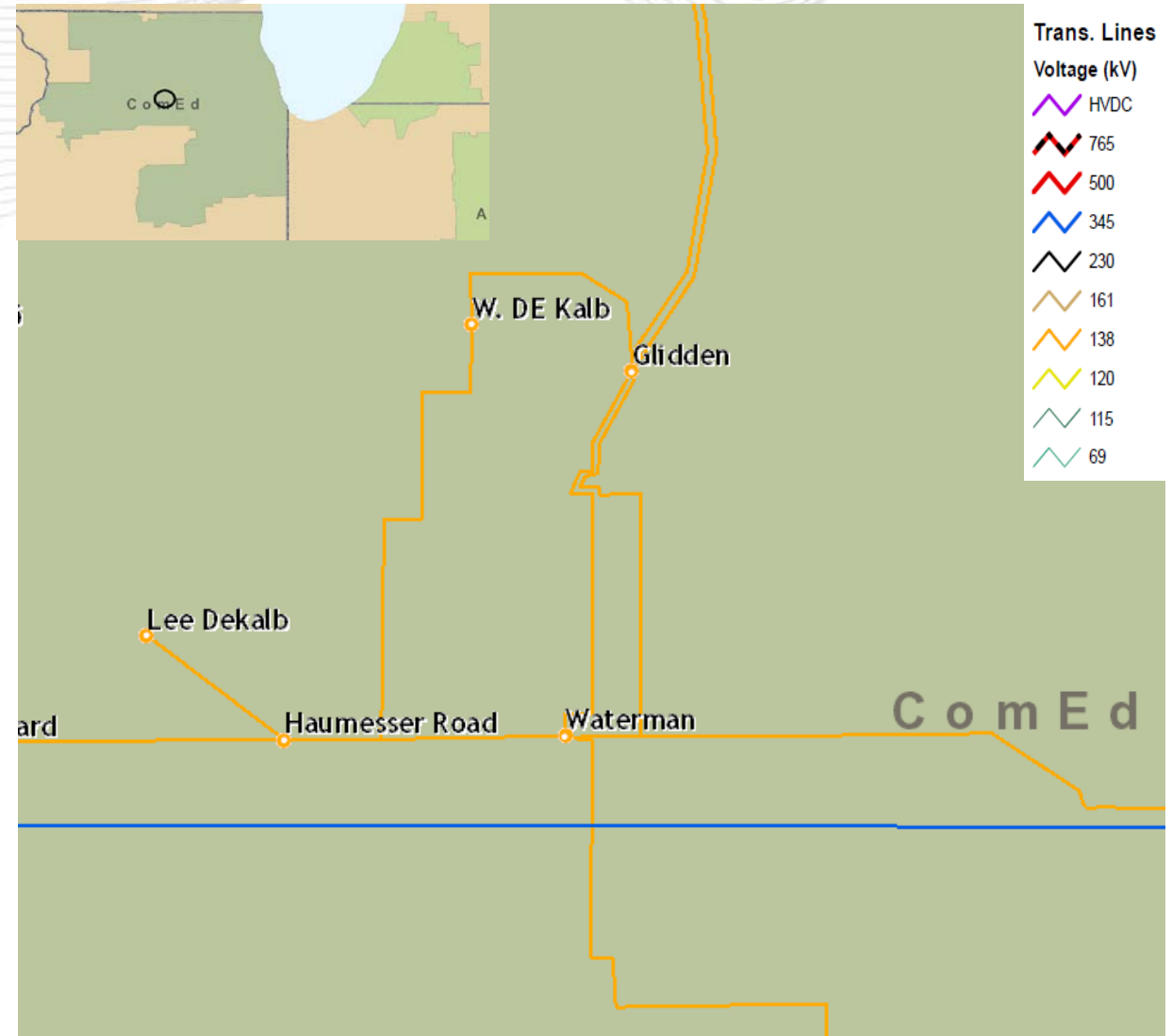
Supplemental Project Driver: Customer Service

### Problem Statement:

- New customer has requested transmission interconnection in the DeKalb area
- 18MW
- Customer has large motors

### Specific Assumption References:

- January 30 2018 ComEd Annual Assumptions
  - New transmission customer connections





**Need Number:** COMED-2018-0001

**Proposed Solution:**

Install new 138kV line from Waterman to customer

- 2.5 miles of new conductor on existing structures
  - 1 mile of new conductor and new structures
  - Four new 138kV breakers
- Install backup tap on 138kV line 11323 (Waterman-Haumesser Road-Glidden)
- 138kV breaker will be open in the customer substation

**Estimated Transmission Cost:** \$ 1.7 M

**Projected In-Service:** 12/31/2019

**TO Alternatives:**

- Connect customer as a radial tap off 138kV line 11323



Need Number: COMED-2018-0002

Meeting Date: 1/11/2019

Process Stage: Solution

Supplemental Project Driver: Infrastructure Resilience

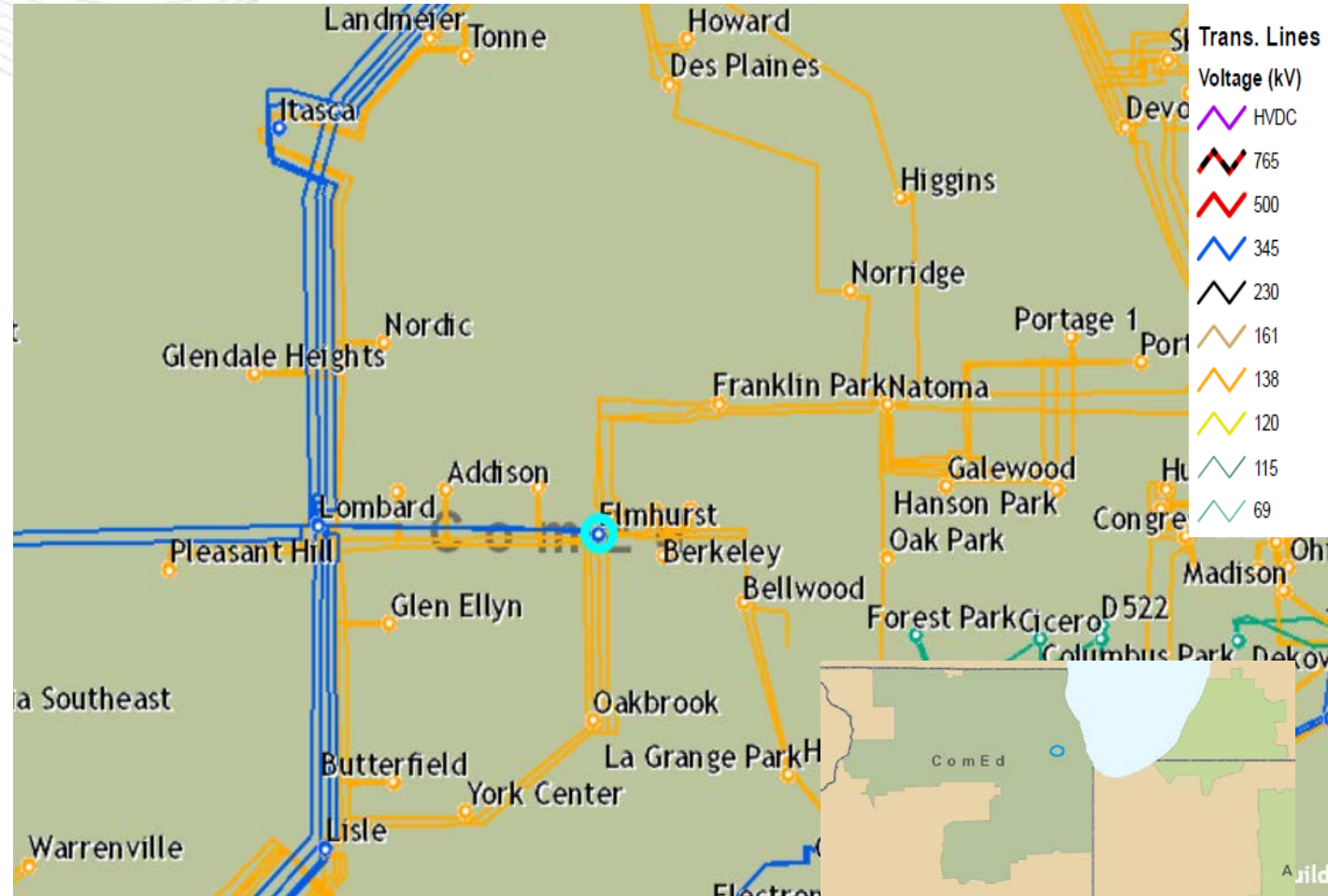
**Problem Statement:**

Electromechanical relays on 138kV lines 13505 and 13506 at Elmhurst:

- Thermally limiting the line
- Does not allow real time data gathering of relay events
- Replacements and spare parts are becoming scarce

**Specific Assumption References:**

- January 30 2018 ComEd Annual Assumptions
  - Infrastructure replacement due to obsolescence resulting in increased capacity; consistent with efficient asset management decisions.







Need Number: COMED-2018-0002

**Proposed Solution:**

Upgrade relay packages on

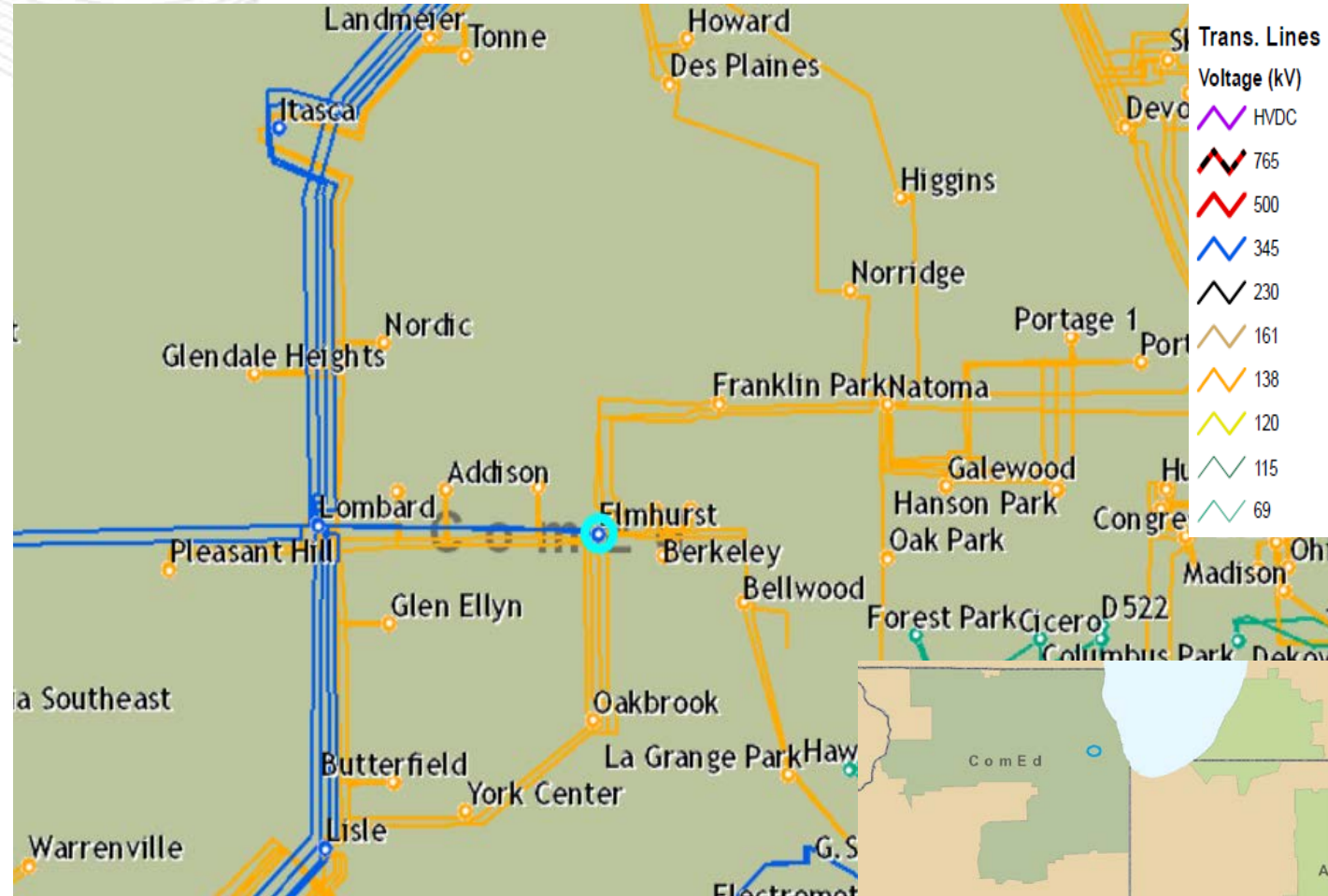
- 138kV line 13505 at Elmhurst
- 138kV line 13506 at Elmhurst

**Estimated Transmission Cost: \$0.35M per line**

**Projected In-Service: 12/31/2019**

**TO Alternatives:**

Do nothing



Need Number: COMED-2018-0003

Meeting Date: 1/11/2019

Process Stage: Solution

Supplemental Project Driver: Equipment Material Condition

### Problem Statement:

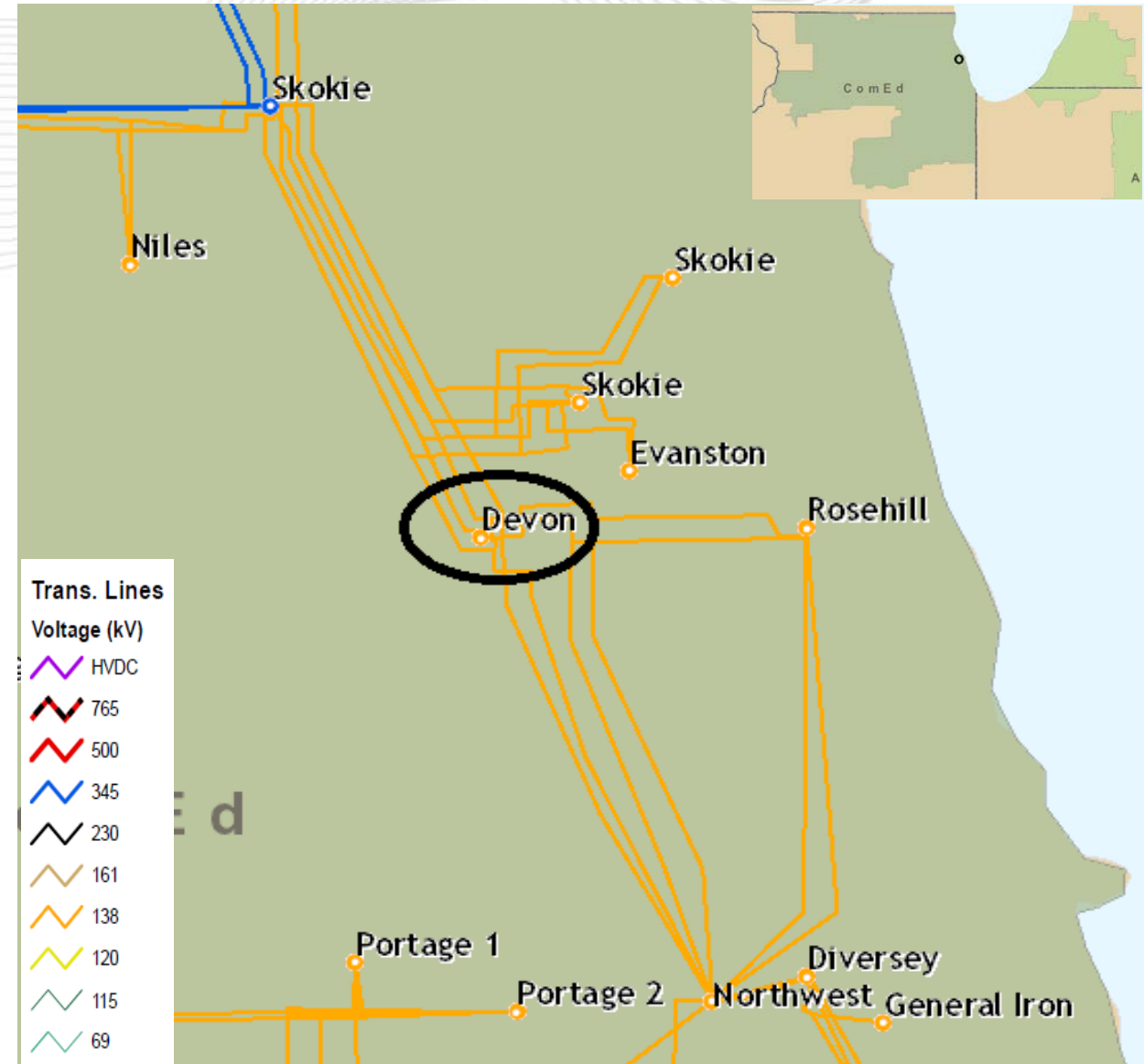
Devon TR72 needs to be replaced due to material condition

- Transformer has internal arcing
- Transformer is gassing
- LTC headboard is cracking and leaking oil
- Increasing maintenance costs

The failure of TR72 causes the outage of 138kV line 8809

### Specific Assumption References:

- January 30 2018 ComEd Annual Assumptions
  - Infrastructure replacement due to obsolescence resulting in increased capacity; consistent with efficient asset management decisions.





# ComEd Transmission Zone: Supplemental Project

**Need Number:** COMED-2018-0003

**Proposed Solution:**

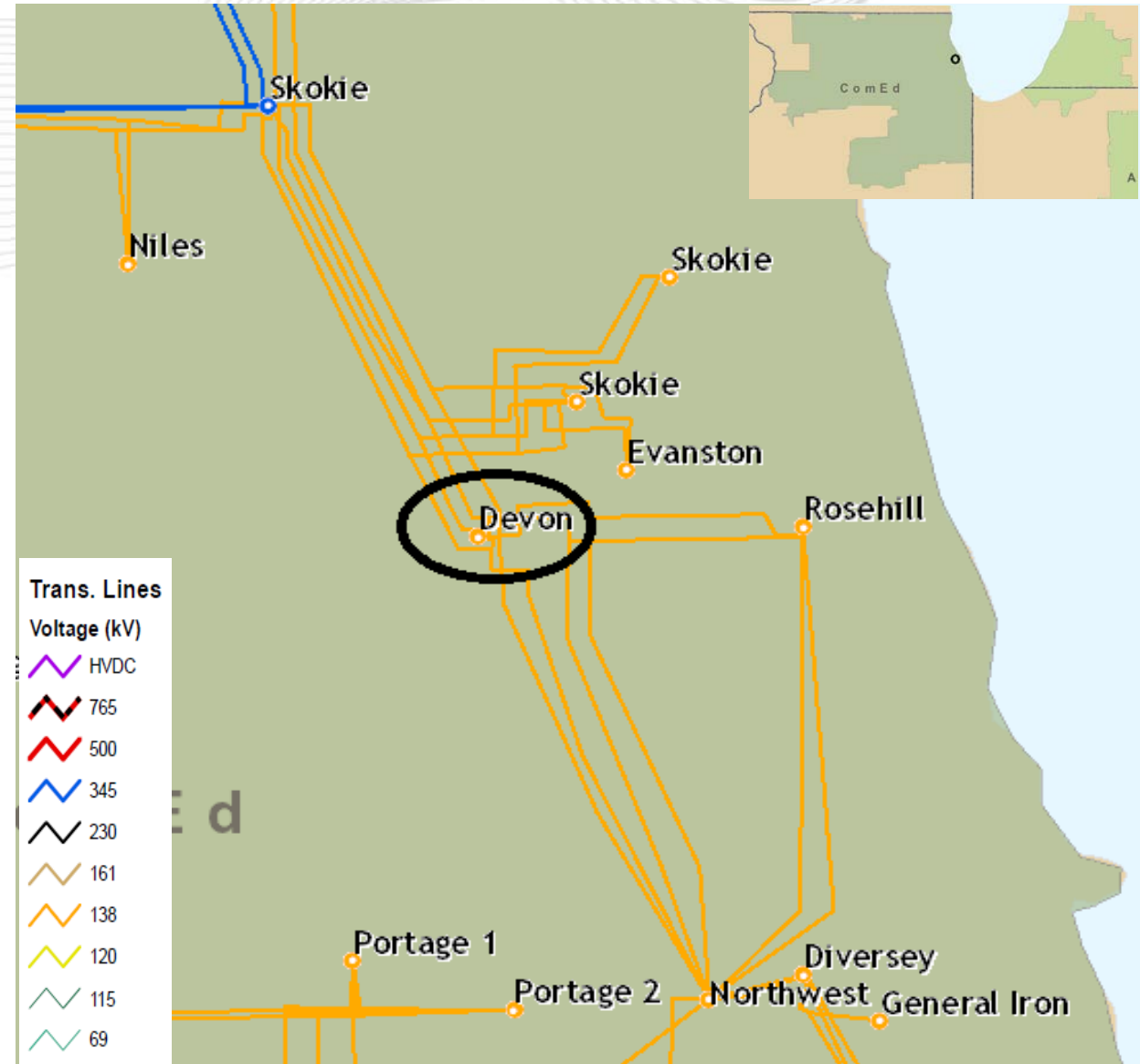
- Replace TR72 at Devon
- Install new 138kV line breaker on 138kV line 8809 at Devon
- Install new 138kV TR72 high side breaker

**Estimated Transmission Cost:** \$1.8M

**Projected In-Service:** 12/31/2019

**TO Alternatives:**

- Replace TR72 only





# Revision History

12/26/2018 – V1 – Original version posted to [pjm.com](http://pjm.com)