One Percent Circuit Program Vegetation Trimming Criteria

1% SAIFI/CAIFI/CAIDI

- **SAIFI** (System Average Interruption Frequency Index) & **CAIFI** (Customer Average Interruption Frequency Index) measure the outage frequency and the number of customers interrupted per event for feeders throughout the system. -- **CAIDI** (Customer Average Interruption Duration Index) measures the average outage duration that any given customer would experience.

Project Scope

- Final Circuit list provided by Reliability
- **All mainline** and **fused 3-phase** will be inspected on the 1% program feeders.
  - Fused **1 phase** and **2 phase** taps will not be inspected – Unfused 1 phase and 2 phase taps considered mainline will be inspected under 1% criteria
  - Specific fused taps identified by Reliability also to be inspected under 1% criteria
- Circuits due for cycle trimming in the current year of inspections will be trimmed by Distribution crews
  - Circuits due for cycle trimming after 06/01 of current year will be pulled in to complete cycle trim by 06/01 of current year.

Inspection/Trimming Criteria

- Locations to be trimmed include the following:
  - All vine locations will be cut and treated with a herbicide.
  - Inspect and spot trim/remove trees with the end result being **0 (ZERO)** tree contact with primary conductors for 1 growing season along **all 3-phase circuits and identified Fused taps** to Cycle Specs.
  - All trees identified will be trimmed to standard clearance specifications.
  - All identified deadwood overhang will be removed.
    - Perform a limited visual assessment of trees within 20 (twenty) feet or striking distance (whichever is relevant to field-conditions) identifying dead trees with lean towards the 3 phase. Mitigate any deficiencies by trimming and/or removal.
    - Trees with deficiencies such as rotting base, fungus, included bark, to be written up and mitigated accordingly.
  - Rubber hoses that have been installed on overhead lines to prevent tree contact require removal of the trees in question.
  - Trees that represent a reoccurring maintenance issue, such as trap trees, should be targeted for removal.
- Plan the work according to the findings in the field. Any emergent conditions found must be mitigated in a timeframe correlated with their emergent priority.
- Inspections to be completed **ASAP** and started with the taps.

Procedures

1. Pull all maps associated with your feeder from the ComEd Map Vault.
   - Use the Maintenance Inspector maps, as they are the most up to date.
2. Highlight all 3-phase and mainline on your map for inspection. Highlight any 3-phase fused taps that are applicable.
3. Once you have your correct maps, begin field investigation and work estimation based on criteria above under Inspection/Trimming Criteria.
4. Consult Customer Concerns Layer before beginning to inspect feeders for areas of high concern!!
5. Special permits (RR, IDOT, County, Forest preserve) to be submitted by DRG planner to tree trimming permit coordinators.
6. Plans are to be delivered to the Tree Trimming Contractor via Excel Spreadsheet and a map with all locations on the circuit to be worked.
7. Once locations have been trimmed, Q/A will be completed by the EWP within 30 days

Inspection Completion – ASAP
Trim Completion – 05/31/19