

# **DG Interconnection Procedures Collaborative**

January 20, 2017

# Interconnection Procedures Collaborative

- State Ombudsman kick-off October 2016
- Goal: develop improvements to Con Edison's internal process for managing interconnections.
- In accordance with the New York State Public Service Commission Standard Interconnection Requirements (SIR)
- CE agrees to implement changes as appropriate following the discussions.
- Informational report filing 6 months from the initial meeting
  - Topics discussed, recommendations developed, and actions taken.

# Agenda

- Topics for today's meeting
- Future topics and Con Edison work plan
- Discussion:
  - Three line diagram checklists
  - Verification test checklist and FAQs
  - Regular business meetings for projects
  - SIR workflow

# Future Topics and Timeline

## February 2017:

- Completion of topics from January meeting
- Coordination with DOB for discussion
- Standardizing communications to present consistent options

## Additional Topics for 2017 – Con Edison Work plan

- Guides for DG technology – March
  - Company moving forward with PV and fuel cell guides as was presented
- New service vs DG cases coordination – April
- Draft Informational Report on Collaborative

Filing of Informational Report on Collaborative due April 24.

# **Draft Content for Three Line Diagram Checklists, Verification Checklists, FAQs**

- Refer to documents

# Process for regular business meetings

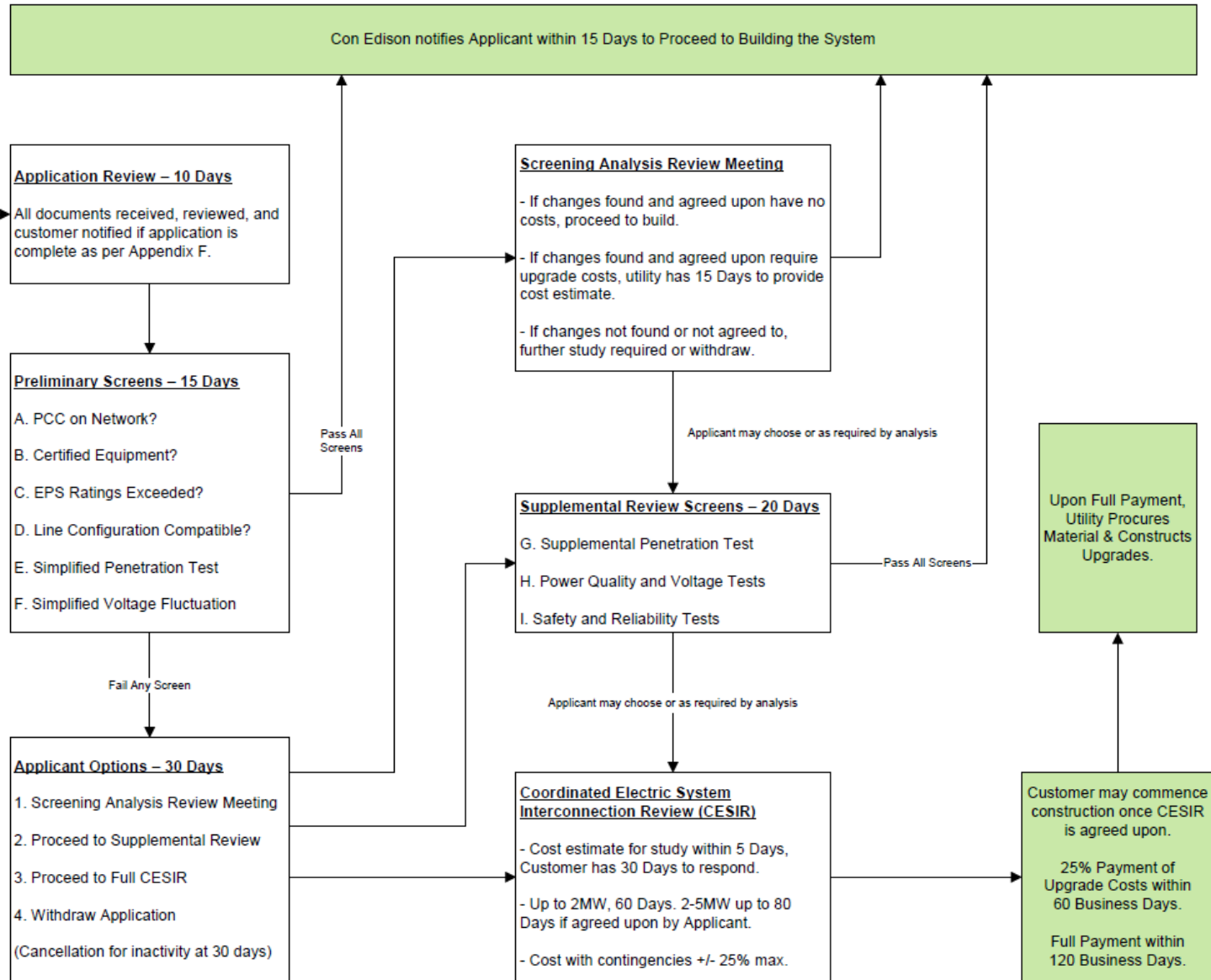
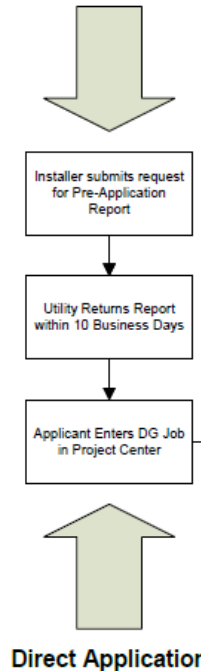
- Any DG >5MW normally have regular meetings
- DG Ombudsman Office and Energy Services available for meetings on request
- Pre-application discussions can help set realistic expectations on unusual schedule constraints
- Special billing considerations (RNM, CDG, Offset Tariff, etc) will meetings scheduled near commissioning for rates
- Developer feedback?
  - How to find balance between transparent communications and efficient management of 111 cases under the new SIR >50kw.

# SIR workflow discussion

- Refer to flow chart

# March 2016 NYS SIR - Simplified Process Flow Chart for 50kw – 5MW

## Pre-Application Report Request





# Preliminary Screening Analysis

If any of the following screens fail, applicant must request supplemental screen or CESIR to progress.

- Screens performed
  - Screen A: Is the PCC on a Networked Secondary System?
  - Screen B: Is Certified Equipment Used?
  - Screen C: Is the Electric Power System (EPS) Rating Exceeded?
  - Screen D: Line Configuration Compatible w/ Interconnection Type?
  - Screen E: Simplified Penetration Test
  - Screen F: Simplified Voltage Fluctuation Test
- Deliverable:
  - Pass: Design Approval Letter and Executed Contract
  - Fail: Preliminary Review Letter Template (w/ Options)

# Supplemental Screening Analysis

If any of the following screens fail, applicant must request CESIR to progress.

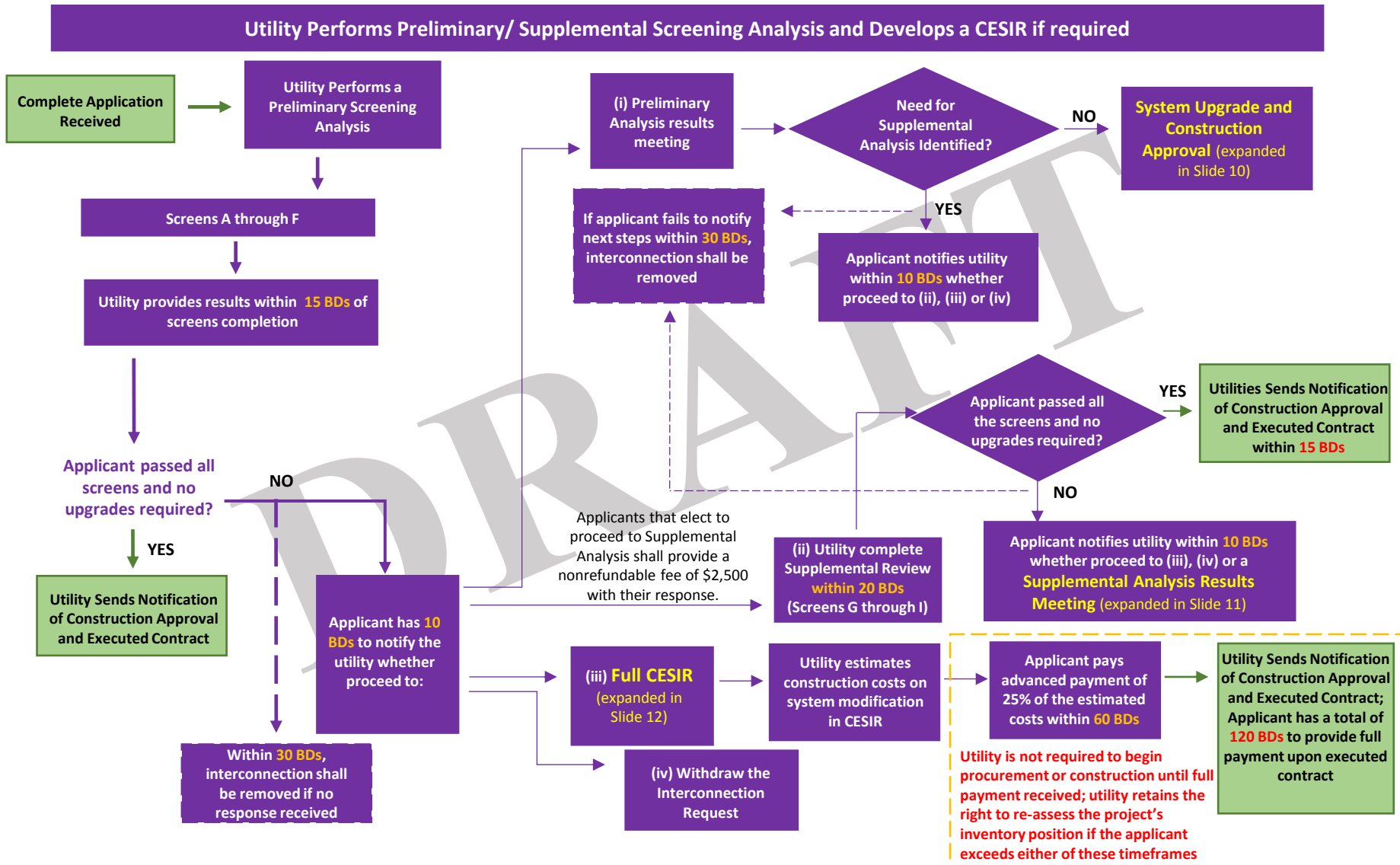
- **Screen G: Supplemental Penetration Test**
  - Where 12 months of line section minimum load data is available, can be calculated, can be estimated from existing data, or determined from a power flow model, is the aggregate Generating Facility capacity on the Line Section less than 100% of the minimum load for all line sections bounded by automatic sectionalizing devices upstream of the Generating Facility?
- **Screen H: Power Quality and Voltage Tests**
  - In aggregate with existing generation on the Line Section,
    - a. Can it be determined within the Supplemental Review that the voltage regulation on the line section can be maintained in compliance with current voltage regulation requirements under all system conditions?
    - b. Can it be determined within the Supplemental Review that the voltage fluctuation is within acceptable limits as defined by IEEE 1453 or utility practice similar to IEEE1453?
    - c. Can it be determined within the Supplemental Review that the harmonic levels meet IEEE519 limits at the Point of Common Coupling (PCC)?
- **Screen I: Safety and Reliability Tests**
  - Does the location of the proposed Generating Facility or the aggregate generation capacity on the Line Section create specific impacts to safety or reliability that cannot be adequately addressed without a detailed study?
- **Deliverables:**
  - Pass: Design Approval Letter and Executed Contract
  - Fail: Supplemental Review Letter Template (w/ Options)

# **Thank you**

January 20, 2017

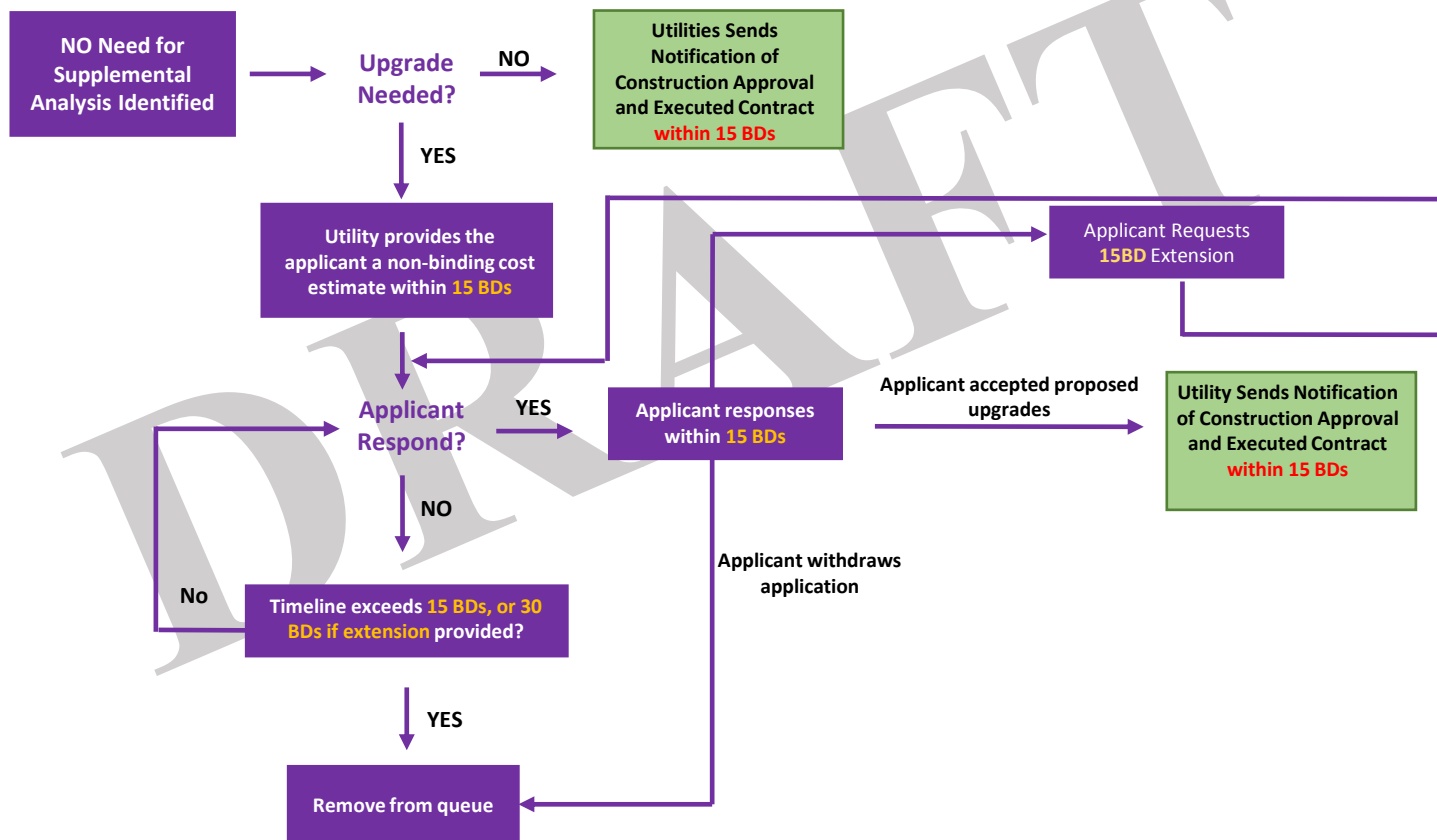
# Appendix Slides

# Flow Chart: Regular Application Process for Systems above 50 kW to 5 MW

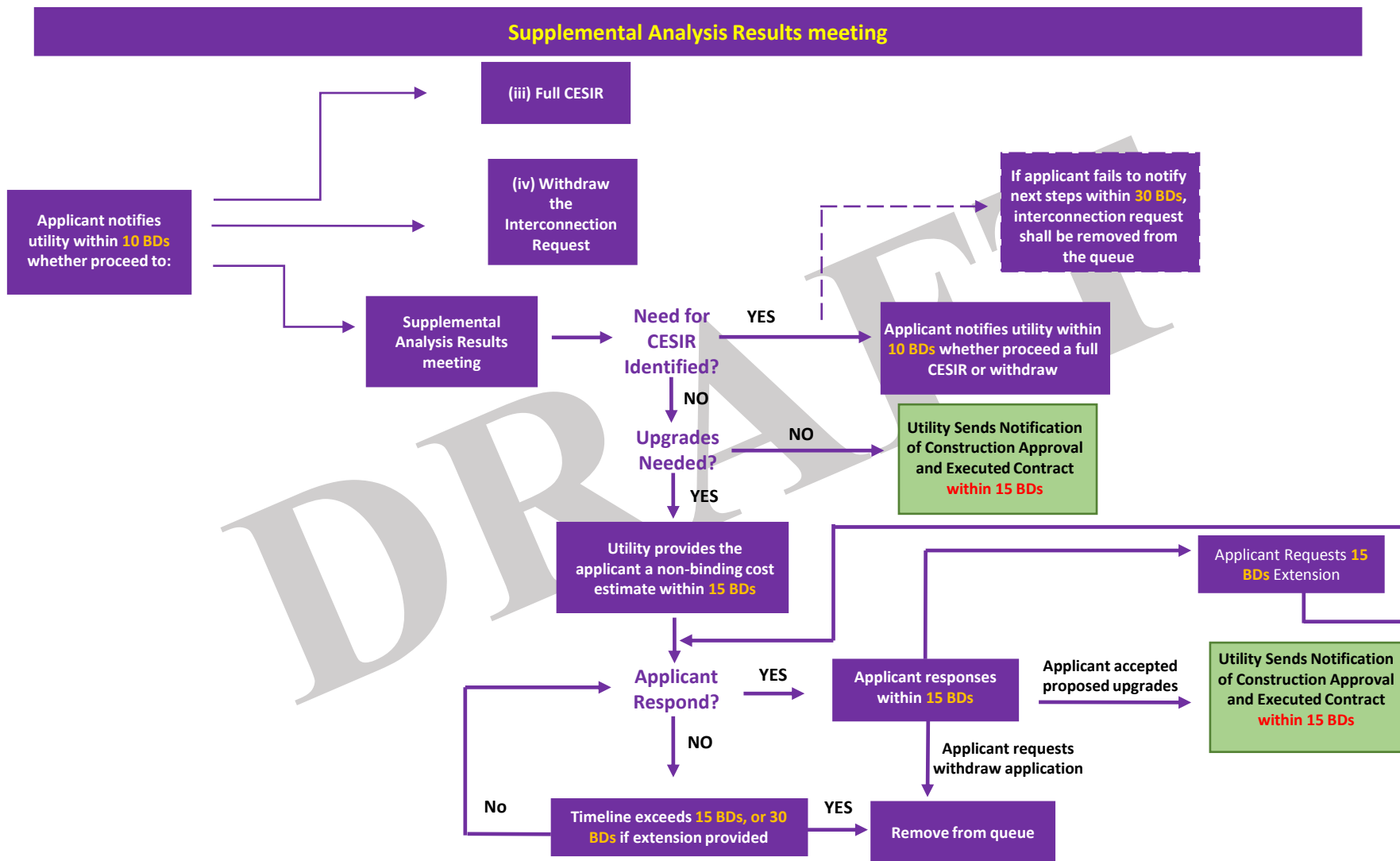


# Flow Chart: Regular Application Process for Systems above 50 kW to 5 MW

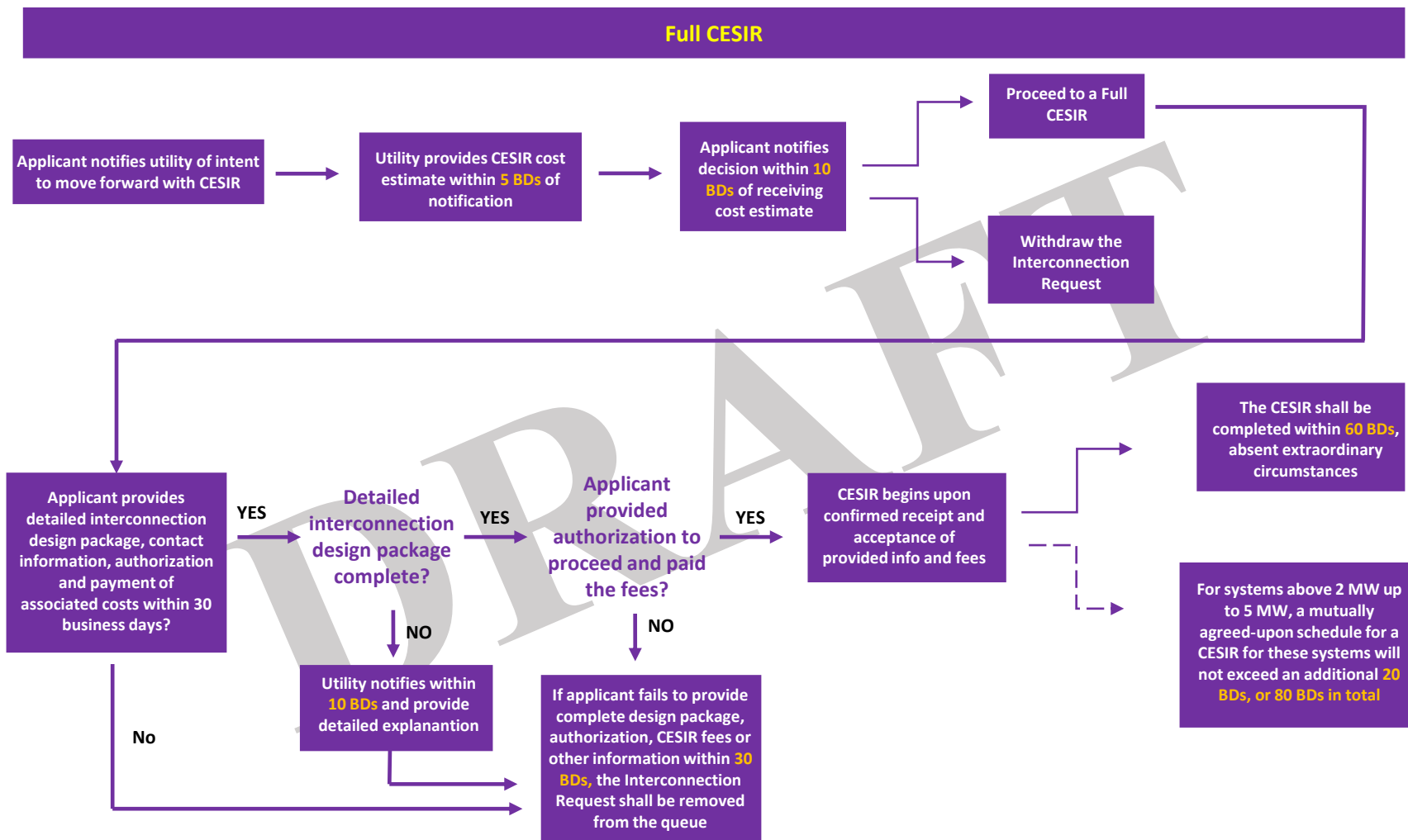
## System Upgrade and Construction Approval



# Flow Chart: Regular Application Process for Systems above 50 kW to 5 MW



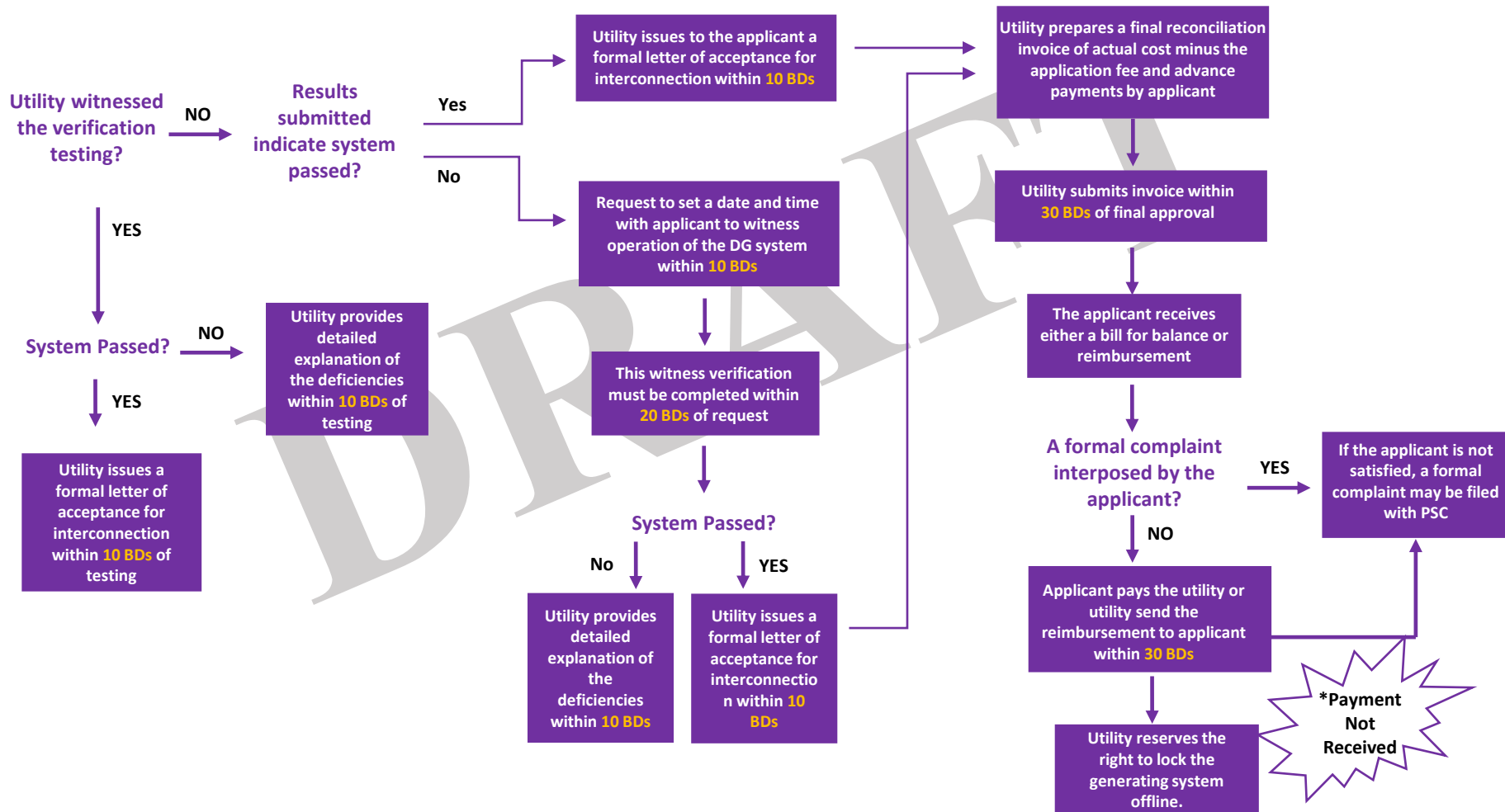
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## Final Acceptance and Utility Cost Reconciliation



# Flow Chart: Regular Application Process for Systems above 50 kW to 5 MW

