



Best Practices for Submission Processes

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Transmission Expansion Advisory
Committee

Tuesday, March 06, 2024



M3 Process – Study File Submission



Modeling Information Requirements for Solutions Meeting

Originally presented on 8/28/2018

	Activity	Timing	Day	Who	How
1	Send Solutions Meeting slides and, for proposed solution, modeling information (contingency files, IDEV, etc.) to PJM	15 days before Solutions Meeting	-15	TOs and Stakeholders	E-mail to PJM
2	Finalizes Solutions Meeting slides (i.e., adds diagrams, etc.)	Upon receipt of slides, prior to posting date	>-10	PJM	Revises supplied slides
3	Post Solutions Meeting slides	10 days before Solutions Meeting	-10	PJM	Web posting of meeting materials
4	Solutions Meeting		0	All	
5	Stakeholder comments	10 days after Solutions Meeting	+10	Stakeholders	E-mail to PJM, PJM posts comments (PJM determining most efficient method)
6	Review and consider stakeholder comments	10 days after comments received	>+10	TOs	Based upon comments, TO may add information in revised slides sent to PJM and PJM re-posts
7	No Harm analysis for proposed solution	After comments for Solutions Meeting	>+10	PJM	Web posting indicating status on Solutions Meeting slide

“Running” Do No Harm base cases posted on PJM Sharepoint portal

Search

Lists

Libraries

Recent

- 2021 Series Short Circ...
- 2021 Series RTEP Load...
- 2021 Series MMWG
- External Entities and C...
- 2022 RTEP Short Circuit
- 2022 Series RTEP Load...
- M3 “Running” case** → M3 - No Harm Analysis
- Baseline “Running” case** → Short Circuit Baselines

Edit

Return to classic SharePoint

Transmission Planning Modeling Data

+ New

Access requests Site usage

Contents		Subsites		
	Name	Type	Items	Modified
	2017 Series MMWG	Document library	49	6/8/2019 12:00 AM
	2017 Series RTEP	Document library	119	6/8/2019 12:00 AM
	2018 Series MMWG	Document library	775	6/8/2019 12:00 AM
	2018 Series RTEP	Document library	1455	6/8/2019 12:00 AM
	2019 Series MMWG	Document library	891	1/15/2020 4:36 PM
	2019 Series RTEP	Document library	1662	2/19/2021 4:36 PM
	2019 Series Short Circuit	Document library	47	6/17/2019 2:40 PM
	2020 Series MMWG	Document library	1053	12/17/2020 11:37 AM



Reference the posted "Running" case to model each solution

Search

Lists

Libraries

Recent

- 2021 Series Short Circ...
- 2021 Series RTEP Load...
- 2021 Series MMWG
- External Entities and C...
- 2022 RTEP Short Circuit
- 2022 Series RTEP Load...
- M3 - No Harm Analysis**
- Short Circuit Baselines

Edit

Transmission Planning Modeling Data

+ New Upload Sync Export to Excel

M3 - No Harm Analysis

Name	Modified	Modified By
Power Flow	November 24	Bugay, Nicole
Short Circuit	November 24	Bugay, Nicole

1

2

Transmission Planning Modeling Data

Share Copy link Delete Pin to top Move to Copy to 1 selected

M3 - No Harm Anal... > Short Circuit

Name	Modified	Modified By
AE & DPL	November 24	Bugay, Nicole
AEP	November 24	Bugay, Nicole
APS	November 24	Bugay, Nicole
ATSI (AMPT)	November 24	Bugay, Nicole
BGE	November 24	Bugay, Nicole
ComEd (NEET)	November 24	Bugay, Nicole
SMECO	November 24	Bugay, Nicole
UGI	November 24	Bugay, Nicole
PJMSC_2026_20210612.DXT	Yesterday at 7:57 AM	Goldberg, Jeffrey
PJMSC_2026_20210612.OLR	Yesterday at 7:58 AM	Goldberg, Jeffrey

Scroll to locate TO breaker set and current base cases



Home Page

<https://connect.pjm.com/Transmission%20Planning%20Modeling%20Data/default.aspx>

M3 – No Harm Analysis

<https://connect.pjm.com/Transmission%20Planning%20Modeling%20Data/default.aspx>

Short Circuit Baselines

<https://connect.pjm.com/Transmission%20Planning%20Modeling%20Data/Short%20Circuit%20Baselines/Forms/AllItems.aspx>

Appendix – Informational Presentations

- Preparing for the Competitive Window
- Single Line Diagram (SLD)
- Contingency Naming Convention
- Contingency Change & Idev File Submissions




Preparing for the Competitive Window

A Guide for PJM Stakeholders

Tarik Bensala
Engineer I , Transmissions Planning

- What is the Competitive Planner Tool?
 - <https://www.pjm.com/planning/competitive-planning-process>
- How do you access the tool?
 - <https://pjm.com/-/media/etools/account-manager/single-user-multi-account-quick-start-guide.ashx?la=en>

Beginning in July 2020, all RTEP competitive proposals will be submitted through a new web-based Competitive Planner tool. Only transmission owners and developers who have received authorization to receive Critical Energy Infrastructure Information (CEII) associated with the current window will be able to participate in the PJM competitive planning process.

[Request Access to Competitive Planner](#) 

Roles	Description
Competitive Planner Read Only	Can only read existing proposals. Cannot start, edit or submit proposals
Competitive Planner Read Write	Can start, edit or view proposals. Cannot submit proposals
Competitive Planner Submitter	Can start, edit, view, and submit proposals
SUMA accounts	Any combination of above three roles (one permitted per company)

Competitive Planner

Pre-Qualified Expires on 07.24.2022 [Start New Proposal](#)

[Homepage](#) Existing Proposals

OPEN Proposal Window 2020 Long Term

Long-Term proposals - submitted to solve of mitigate considers reliability criteria violations, economic constraints, system conditions and public policy requirements.

Proposals in progress	2
Proposals ready for submission	0
Total cost	\$0 M
Total proposal fees	\$0

[Continue an Existing Proposal](#) [Start New Proposal](#)

OPEN Proposal Window 2020 Short Term

Short-Term proposals will be considered to solve of mitigate reliability criteria violations included in the Problem Statement below.

Proposals in progress	2
Proposals ready for submission	1
Total cost	\$1,598.15 M
Total proposal fees	\$0

[Continue an Existing Proposal](#) [Start New Proposal](#)

CLOSED Proposal Window 2017 Short Term

Short-Term proposals will be considered to solve of mitigate reliability criteria violations included in the Problem Statement below.

Proposals in progress	0
Proposals submitted	0
Total cost	\$0 M
Total proposal fees	\$0

CLOSED Proposal Window 2019 Long Term

Long-Term proposals - submitted to solve of mitigate considers reliability criteria violations, economic constraints, system conditions and public policy requirements.

Proposals in progress	0
Proposals submitted	0
Total cost	\$0 M
Total proposal fees	\$0

- An entity's eligibility to be designated to construct a project is evaluated based on its technical and engineering qualifications, including its ability to develop, construct, operate and maintain transmission within the PJM region.
- Any entity can submit a proposal regardless of Pre-Qualified status, but must be pre-qualified pursuant to OA Schedule 6, section 1.5.8 in order to be designated construction responsibility.
- For more information, please see Manual 14F and the competitive planning page.

<https://pjm.com/-/media/documents/manuals/m14f.ashx>

<https://www.pjm.com/planning/competitive-planning-process/pre-qualification>

Homepage Existing Proposals **Proposal Form**

General Information

Overloaded Facilities

Project Components

Financial Information

Cost Containment Commitment

Review

Confirmation

General Information Saved as Draft

Proposing entity name * **1** PJMTST Joint Proposals **10**

Company proposal ID * **2** PJMTST-01

Project title * **3** New X/Y Line

Project description * **4** Project is a new line between X and Y substations utilizing AAA structures.

Project in-service date * **5** 01/2021

Tie-line Impact * **6** Yes No

Interregional project * **7** Yes No

Is the proposer offering a binding cap on capital costs? * **8** Yes No

Additional benefits **9** For example: reliability, economics, etc.

Supporting Documents **11**

To submit multiple files at once, please place them into a Zip file before uploading.

Project analysis attachments *
IDEV, XML, etc. file types

Market efficiency simulation modeling files *
IDEV, XML, etc. file types

Project Cost Summary

Cost estimate (current year)	\$1.598 M
Cost estimate (in-service year)	\$0.007 M
Project in-service date	1.2021

Proposal Window 2020 Short Term

Company Proposal ID	PJMTST-01
PJM Proposal ID	541

1. Proposing Entity Name (This cannot be changed by the user. This is based on the user's account and the company it is tied with.)
2. Company Proposal ID is provided by the user to allow the company to track and identify their submittals
3. Project Title (**Do not use your Company Name or any CEII Material in the Title**)
4. Project Description that gives a general scope of the project
5. Projected In-service Date
6. Tie-Line Impact (Please check this if the proposal or a component of the proposal span two PJM Transmission Owner Zones)
7. Interregional Project (Please check if this project is being proposed as a solution to a cross-border issue e.g. PJM to MISO)

Homepage Existing Proposals **Proposal Form**

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Project Cost Summary

Cost estimate (current year)	\$1.598 M
Cost estimate (in-service year)	\$0.007 M
Project in-service date	1.2021

Proposal Window 2020 Short Term

Company Proposal ID	PJMTST-01
PJM Proposal ID	541

General Information

Proposing entity name * 1 PJMTST

Company proposal ID * 2 PJMTST-01

Project title * 3 New X/Y Line

Project description * 4 Project is a new line between X and Y substations utilizing AAA structures.

Project in-service date * 5 01/2021

Tie-line Impact * 6 Yes No

Interregional project * 7 Yes No

Is the proposer offering a binding cap on capital costs? * 8 Yes No

Additional benefits 9 For example: reliability, economics, etc.

Supporting Documents 11

To submit multiple files at once, please place them into a Zip file before uploading.

Project analysis attachments *

IDEV, XML, etc. file types

Market efficiency simulation modeling files *

IDEV, XML, etc. file types

Saved as Draft

10

8. Indicate if any Cost Containment Commitment is being proposed, if yes a detailed description is required under the *Cost Containment Commitment* heading
9. Please identify any additional benefits to the projects (e.g. Solving more violations, reliability, economic, resilience, etc.)
10. Joint Proposal, if your project falls under this, one party **must** be the contact with PJM and the joint parties will determine the Joint Proposal ID

Homepage Existing Proposals **Proposal Form**

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Project Cost Summary

Cost estimate (current year)	\$1.598 M
Cost estimate (in-service year)	\$0.007 M
Project in-service date	1.2021

Proposal Window 2020 Short Term

Company Proposal ID	PJMTST-01
PJM Proposal ID	541

General Information

Proposing entity name * 1

Company proposal ID * 2

Project title * 3

Project description * 4

Project in-service date * 5

Tie-line Impact * 6

Interregional project * 7

Is the proposer offering a binding cap on capital costs? * 8

Additional benefits * 9

Project analysis attachments *
IDEV, XML, etc. file types

Market efficiency simulation modeling files *
IDEV, XML, etc. file types

PJMTST

PJMTST-01

New X/Y Line

Project is a new line between X and Y substations utilizing AAA structures.

01/2021

Yes No

Yes No

Yes No

For example: reliability, economics, etc.

Supported Documents 11

To submit multiple files at once, please place them into a Zip file before uploading.

+ Choose File

+ Choose File

Saved as Draft

Joint Proposals 10

11. Supporting Documents

Reminder, please identify each file with a unique identifier. Do not label these files with the same name. Please bundle these into one ZIP file if there are multiple files being posted at once.

The information must be organized in the ZIP folders for Project Analysis Files and Market Efficiency Technical Files as separate ZIP folders as listed below:

- Project Analysis Files
 - Powerflow files (.Idv, .Raw, .Sav)
 - Short Circuit Files (.Chf, .Dxt)
 - Contingency Changes (Include all new, modified, and removed)
 - One Line Diagrams (Before and After)
- Market Efficiency Technical Files
 - Any Promod file (Eve, Xml, Lib, Dat, Pff, Promod Simulation Results)
 - BC Ratios in Excel Format
 - Powerflow files (.Idv, .Raw, .Sav)

Competitive Planner

Homepage Existing Proposals **Proposal Form**

General Information

Overloaded Facilities

Project Components

Financial Information

Cost Containment Commitment

Review

Confirmation

Overloaded Facilities or Congestion Drivers

Congestion Drivers
Existing Flowgates
New Flowgates

Select a checkbox next to each facility that will be addressed by the proposed project.

View selected congestion drivers only (2) Saved & Validated ✓

<input type="checkbox"/>	CD #	Analysis type	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone
	<input type="text"/>	Select ▾	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Select ▾	Select ▾	Select ▾
<input type="checkbox"/>	ME-567	Summer N1 Volt Low	360339	Another Bus Name	342812	SSUMM SHAD T	3	162/161	PECO
<input checked="" type="checkbox"/>	ME-565	Winter N1 Volt High	360337	ABC name4	342813	SSUMM SHAD T	1	161/161	PG&E
<input type="checkbox"/>	ME-569	Summer N1 Thermal	360341	ABC name1	342812	SSUMM SHAD T	2	161/161	PPL
<input checked="" type="checkbox"/>	ME-564	Summer N1 Thermal	360336	ABC name3	342812	SSUMM SHAD T	2	161/161	PPL
<input type="checkbox"/>	ME-568	Summer N1 Volt Low	360340	ABC name6	342812	SSUMM SHAD T	3	162/161	PPL

Records per page: 50 ▾ (1 of 1) << >>

5 Records

Save as Draft Save & Validate

My Tools ▾ Training Submitter PJMTST | PJM TEST (RWS_TEST)

pjm | Planning Center

Competitive Planner

Homepage Existing Proposals **Proposal Form**

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Project Components

Project components *

Select project component
 Select project component
 Transmission Line Reconstructor/Rebuild Component
 Substation Upgrade Component
 Greenfield Transmission Line Component
 Greenfield Substation Component

Add

Project Cost Summary

Cost estimate (current year)

Cost estimate (in-service year)

Project in-service date 1.2021

Proposal Window 2020 Short Term

Company Proposal ID PJMTST-01

PJM Proposal ID 541

- Describe the scope of the work for each major project component
- Provide a project cost breakdown by the indicated categories for each component
- Provide an in-service year component project total cost for Market Efficiency projects
- Identify the entity designated to build the component

Competitive Planner




Success X

- Homepage
- Existing Proposals
- Proposal Form**
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- Overloaded Facilities
- Project Components**
- Financial Information
- Cost Containment Commitment
- Review
- Confirmation

Project Components

Project components *

▶ 1. Substation Upgrade

Saved as Draft   

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Project Financial Information Saved as Draft

Capital spend start date * Construction start date * Project Duration (In Months) 10

Capital Expenditure Documents

Describe what and why needs to be uploaded.

Upload completed template * + Choose File

Download blank template XLSX Download completed template example PDF

Save as Draft
Save & Validate

Project Cost Summary

Cost estimate (current year)

Cost estimate (in-service year)

Project in-service date 1.2021

Proposal Window 2020 Short Term

Company Proposal ID PJMTST-01

PJM Proposal ID 541

- Provide the Capital starting date of the project, then the Projected Construction Start Date
- User Completed Template that is provided within the tool

Competitive Planner

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Review

Confirmation

Cost Containment Commitment Saved & Validated ✓

Cost cap (in current year)

Cost cap (in-service year)

Components covered by cost containment

Select a checkbox next to each project component that will be covered by cost containment.

1. Substation Upgrade - Construction Responsibility 1

Cost elements covered by cost containment

Indicate which capital cost elements fall under the cap.

Engineering & design *	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Permitting / routing / siting *	<input checked="" type="radio"/> Yes	<input type="radio"/> No
ROW / land acquisition *	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Materials & equipment *	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Construction & commissioning *	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Construction management *	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Overheads & miscellaneous costs *	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Taxes *	<input type="radio"/> Yes	<input checked="" type="radio"/> No
AFUDC *	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Escalation *	<input checked="" type="radio"/> Yes	<input type="radio"/> No

Project Cost Summary

Cost estimate (current year)

Cost estimate (in-service year)

Project in-service date 1.2021

Proposal Window 2020 Short Term

Company Proposal ID PJMTST-01

PJM Proposal ID 541

- Identify the Cost Containment Commitment and which components that have been saved prior are covered
- Identify the cost elements covered by cost containment

Additional Information *

AI

- Is the proposer offering a binding cap on ROE? *
- Would this ROE cap apply to the determination of AFUDC? *
- Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable? *
- Engineering & design *
- Permitting / routing / siting *
- ROW / land acquisition *
- Materials & equipment *
- Construction & commissioning *
- Construction management *
- Overheads & miscellaneous costs *
- Taxes *
- AFUDC *
- Escalation *
- Additional Information

- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No
- Yes No

AI more

- Provide any additional information to clearly describe the Cost Containment being offered for the proposal

Is the proposer offering a Debt to Equity Ratio cap? *

Yes No

Additional cost containment measures not covered above


ACC

Supporting Documents

To submit multiple files at once, please place them into a Zip file before uploading.

Cost commitment legal language *

+ Choose File

05 Network.txt 

Provide language to be included in the Designated Entity Agreement that expresses the legally binding commitment of the developer to the construction cost cap.

Save as Draft

Save & Validate

- Provide any supporting documents at the end of the Cost Containment page.

Competitive Planner

Homepage
Existing Proposals
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- General Information
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- Project Components
- Financial Information
- Cost Containment Commitment
- Review
- Confirmation

Project Cost Summary

Cost estimate (current year)

Cost estimate (in-service year)

Project in-service date **1.2021**

Proposal Window 2020 Short Term

Company Proposal ID **PJMTST-01**

PJM Proposal ID **541**

Proposal Window 2020 Short Term

Full proposal view

General Information

Proposing entity name *	PJMTST
Company proposal ID	PJMTST-01
PJM Proposal ID *	541
Project title *	New X/Y Line
Project description *	Project is a new line between X and Y substations utilizing AAA structures.
Project in-service date *	01/2021
Tie-line impact *	No
Interregional project *	No
Is the proposer offering a binding cap on capital costs? *	Yes
Cost containment commitment *	Yes
Additional benefits	For example: reliability, economics, etc.

Saved as Draft

Not validated. Click Pen button to edit/review and validate

Supporting Documents

Project analysis attachments *

Comp Plan FG.xlsx

Market efficiency simulation modeling files *

Overloaded Facilities

Congestion Drivers

Validated. User can still click Pen button to edit before submittal

Saved & Validated  

CD #	Analysis type	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone
ME-565	Winter N1 Volt High	360337	ABC name4	342813	5SUMM SHAD T	1	161/161	PG&E
ME-564	Summer N1 Thermal	360336	ABC name3	342812	5SUMM SHAD T	2	161/161	PPL

Existing Flowgates

Saved & Validated  

FG #	Analysis type	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone
N1-561	Summer N1 Volt Low	250086	XYZ name	249988	08BKJ135	1	138/138	PECO
N1-562	Winter N1 Volt High	360335	ABC name1	342812	5SUMM SHAD T	1	161/161	PPL
N1-563	Summer N1 Thermal	360335	ABC name1	342812	5SUMM SHAD T	1	161/161	PPL

New Flowgates

Saved & Validated  

FG #	Analysis type	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone
FG-541-1	Winter N1 Volt High	876876	765	7687	686	876	100/200	AEP

Comments

Additional Comments

A C

I certify that all information entered on this form is complete and accurate.

When all requirements have been validated check the certification box and the Submit button will highlight

The form cannot be submitted until all required fields are saved and validated.

Submit

Competitive Planner

Homepage Existing Proposals **Proposal Form**

General Information

Overloaded Facilities

Project Components

Financial Information

Cost Containment Commitment

Review

Confirmation

Thank You. This proposal is marked for submission.

Project Cost Summary

Cost estimate (current year)	
Cost estimate (in-service year)	
Project in-service date	1.2021

Proposal Window 2020 Short Term

Company Proposal ID	PJMTST-01
PJM Proposal ID	541

- Users are able to edit their submitted proposals prior to the closing of the Window, however please note that any change will remove the submission status from the proposal and you will need to “Save and Validate” each portion of the proposal again and “Submit” again as discussed earlier in the presentation.
- This submission can be resubmitted by anyone that has a submitter role.

- If you run into any additional issues regarding the tool, please reach out to the Competitive Planner Tool Admins at ProposalWindow-Admin@pjm.com

- Competitive Planner – User Guide
 - <https://pjm.com/-/media/etools/planning-center/competitive-planner-user-guide.ashx>
- Competitive Planner Demonstration
 - https://videos.pjm.com/media/1_f7a912e2

Single Line Diagram (SLD) Guidance for Open Window Submittals

PJM typically receives many project proposals whenever a competitive window is open. The process of selecting a winning proposal includes PJM Transmission Planning modeling each project and subsequently performing reliability analysis.

Single Line Diagrams are critical for communicating the proposal:

- Validating the modeling (idv files) for accurate incorporation to the study case

 - Facilities to be Removed, Added, Modified

- Validating changes to the Contingency Sets

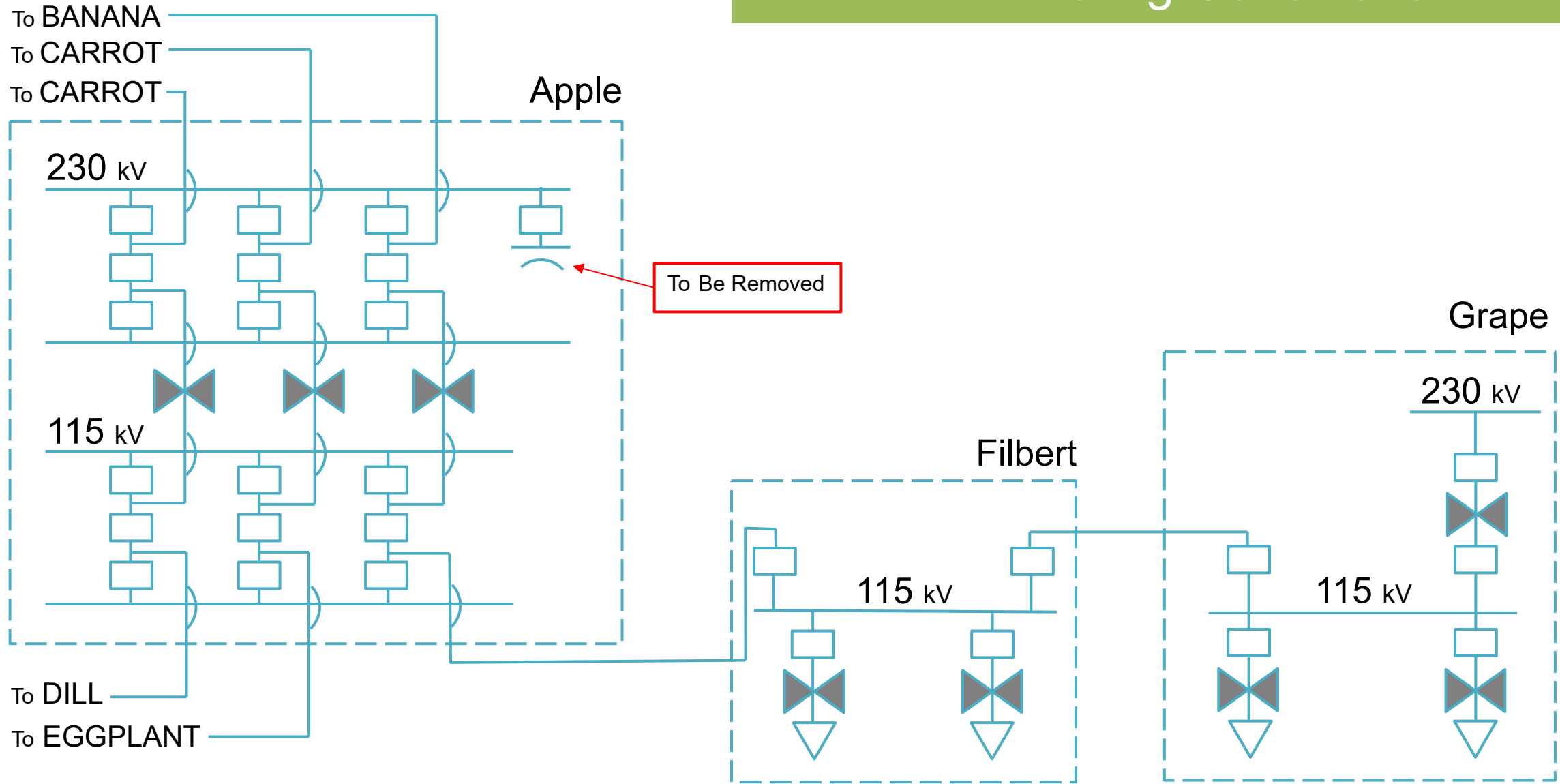
 - Contingency Definitions to be Removed, Added, Modified

- Understanding the sequencing of project phases

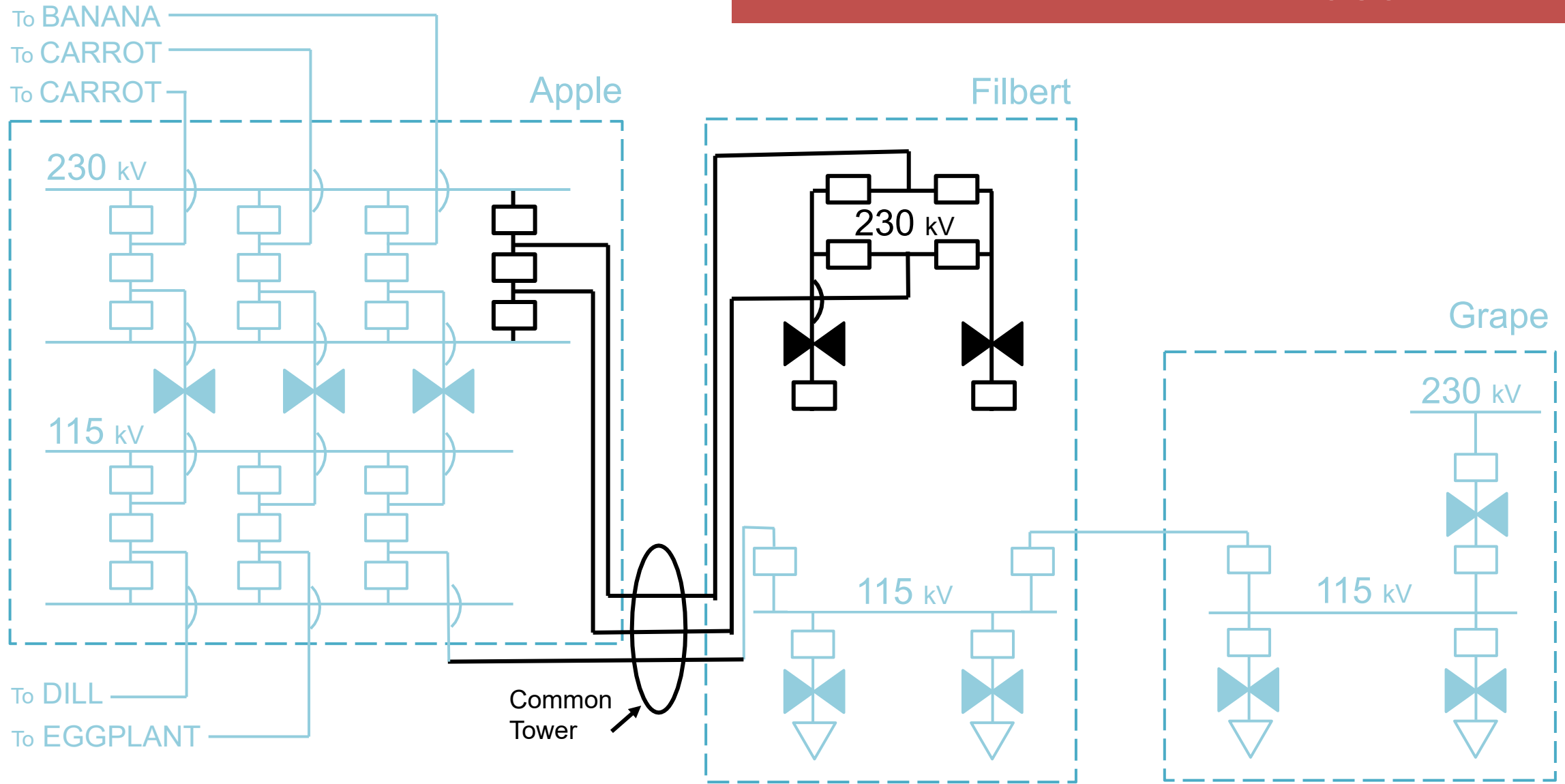
 - Existing System Topology - showing those facilities relevant to the proposed project

 - Post In-service Topology – resultant topology after each project phase

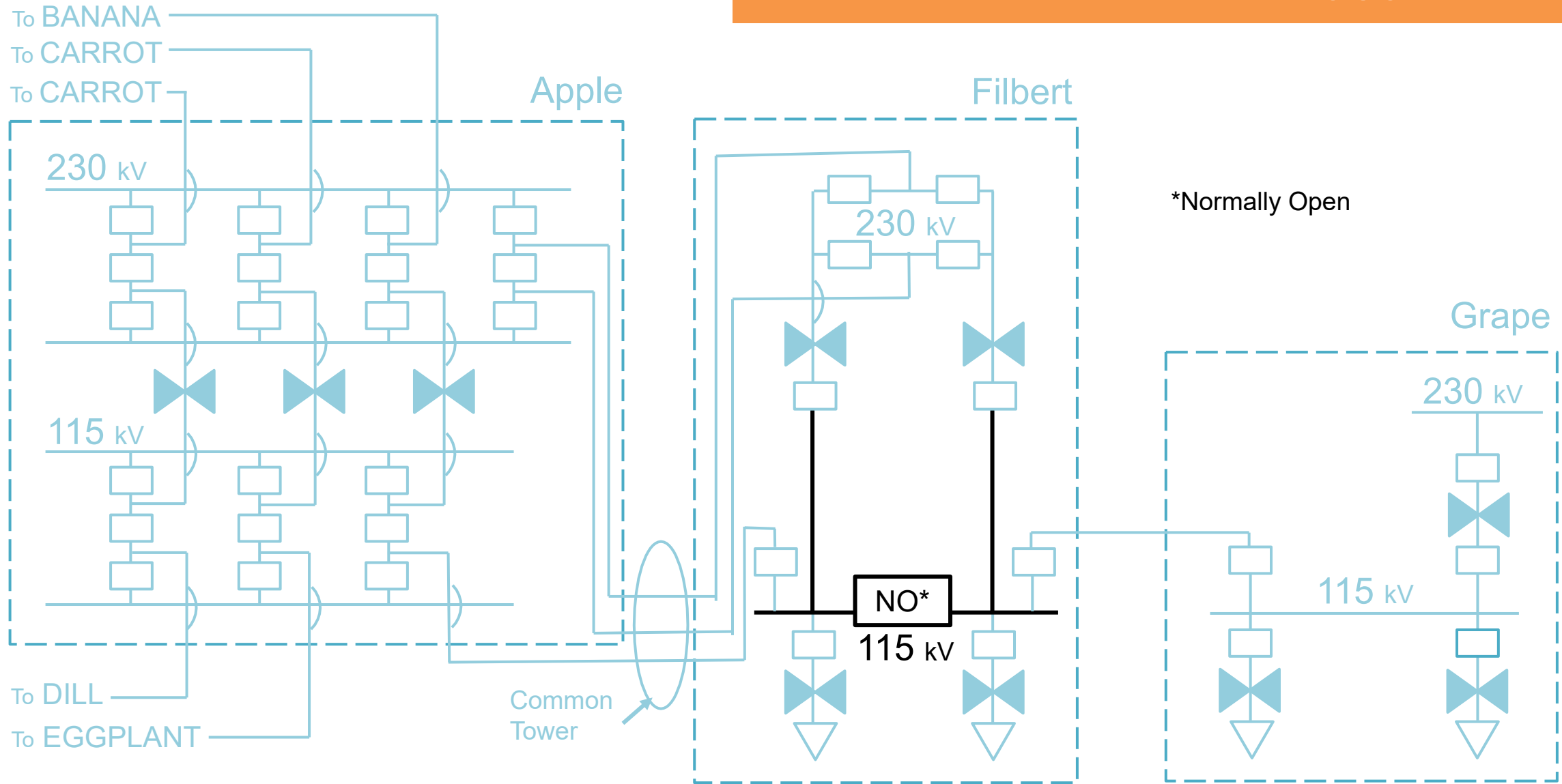
Existing Conditions



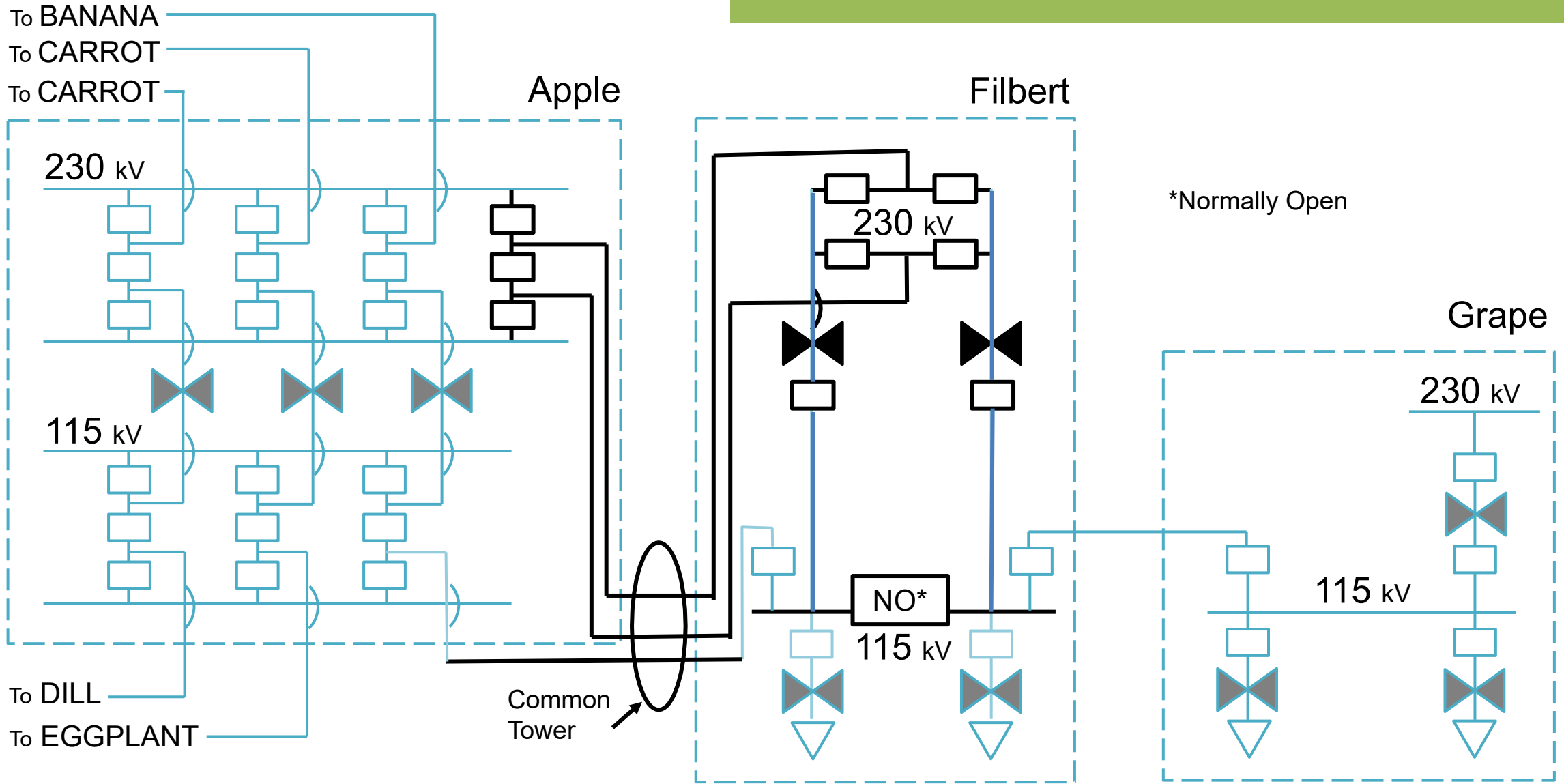
Phase 1



Phase 2



Phase Final



Proposing entities may use their own graphics on submitted SLDs For optimal communication and clarity:

SLD of Existing System

Only show facilities relevant to the project.

Identify facilities to be removed in the subsequent project phase. These facilities will be missing in subsequent SLD

SLD of Intermediate Project Phase

All facilities installed from a previous project phase should be represented the same as existing facilities (Normal Weight)

Ensure all facilities identified for removal from a previous project phase are missing

Identify all facilities added in the current project phase (Heavy Weight)

Identify facilities to be removed in the subsequent project phase.

Include graphic to facilitate validation of Contingency definitions (i.e. Common Tower, breaker diagrams, etc.)

SLD of Final Project Phase

Identify all facilities added for **all project phases** (Heavy Weight)

Contingency Naming Convention



What we need from TOs

For each RTEP study year, six (6) contingency files are required. The common names of these six contingency files and the associated NERC TPL contingency definitions are shown in the table below:

PJM File Name	TPL-001-5 Contingencies
Single	P1 (All)
P_2-1	P2.1
Bus	P2.2
Line_FB	P2.3, P2.4 P4 (All)
P5	P5
Tower	P7(All)



Contingency Title Naming Convention

1. Standard Format

PJM has identified a specific naming standard convention to contingencies. This is necessary to be able to sort on contingencies that apply to certain seasons and assist in the consolidation of all contingency files into one (1) yearly set per contingency type.

Below is an example of the standard format:

“Company Name” _ “TPL Number” - “Sub Number Remainder of Contingency Title” _ “Sort” - “Seasonal Restricted”



Contingency Title Naming Convention

2. Seasonal Consideration and Sorting

To maintain all different seasonal contingencies within a yearly contingency case, contingency titles will require a standard adder to providing sorting capability.

Command for Cont.	Command for Cont.
_SRT-A	_SORT-ALL
_SRT-S	_SORT-SUM
_SRT-W	_SORT-WIN
_SRT-L	_SORT-LL
_SRT-SL	_SORT-SUM & LL
_SRT-WL	_SORT-WIN & LL
_SRT-SW	_SORT-SUM & WIN



3. Contingency File Naming Convention

Below are several examples of valid contingency names:

AP_P1-1_MP-138-513_SRT-S

ATSI_P1-2_OEC-69-010_SRT-A

AEP_P1-2_#5522_SRT-L

CE_P4_207-38-L4606N_SRT-A

DVP_P7-1_LN 46-74_SRT-SW

ME_P2-2_ME-115-022T_SRT-W



4. Contingency File Naming Convention

PJM requires consistent naming of the .con files to assist when compiling the various contingency files from the different members together. Below is the standard for naming contingency files.

RTEP-SSSS_YYYY_CCCC_TTTT_RR

Legend for the format above where:

- 🕒 S = RTEP Series Year
- 🕒 Y = Case Year
- 🕒 C = Company
- 🕒 T = Type (Tower, Single, Line_FB, Bus, P_2-1, P5)
- 🕒 R = Revision (Start at Revision 0)



Contingency Change & Idev File Submissions



Contingency Changes

Currently, PJM receives contingency changes in multiple formats:

Text file, excel, word

Deletions, additions, modifications

All in one file vs. separate files

PJM is looking to standardize the submission of contingency changes to minimize confusion and any potential errors:

1. Submit contingency changes using the provided “Contingency Change Submission” template
2. Follow the contingency naming convention as described in previous section
3. Use unique contingency names (i.e. no duplicate contingencies)
4. Use ‘delete’ and ‘add’ methodology in template to represent contingency modifications



Contingency Changes

New Contingencies

Delete	Add
N/A	CONTINGENCY 'PJM_P1-2_BUS1_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####2 CKT 1 /* BUS 1 138 TO BUS 2 138 END

Deleted Contingencies

Delete	Add
CONTINGENCY 'PJM_P1-2_BUS1_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####2 CKT 1 /* BUS 1 138 TO BUS 2 138 END	N/A

Delete	Add
CONTINGENCY 'PJM_P1-2_BUS1_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####2 CKT 1 /* BUS 1 138 TO BUS 2 138 END	CONTINGENCY 'PJM_P1-2_BUS1_BUS3_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####3 CKT 1 /* BUS 1 138 TO BUS 3 138 END



Contingency Changes

Modified Contingencies – 1:2 (or more) Replacements → Merge the “Delete” cells

Delete	Add
CONTINGENCY 'PJM_P1-2_BUS1_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####2 CKT 1 /* BUS 1 138 TO BUS 2 138 END	CONTINGENCY 'PJM_P1-2_BUS1_BUS3_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####3 CKT 1 /* BUS 1 138 TO BUS 3 138 END
	CONTINGENCY 'PJM_P1-2_BUS3_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####3 TO BUS #####2 CKT 1 /* BUS 3 138 TO BUS 2 138 END

Delete	Add
CONTINGENCY 'PJM_P1-2_BUS1_BUS3_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####3 CKT 1 /* BUS 1 138 TO BUS 3 138 END	
CONTINGENCY 'PJM_P1-2_BUS3_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####3 TO BUS #####2 CKT 1 /* BUS 3 138 TO BUS 2 138 END	CONTINGENCY 'PJM_P1-2_BUS1_BUS2_SRT-A' DISCONNECT BRANCH FROM BUS #####1 TO BUS #####2 CKT 1 /* BUS 1 138 TO BUS 2 138 END

PJM is looking to standardize the submission of idev files to minimize confusion and any potential errors:

1. Add comments inside the idev file to clearly show/explain the changes being made
2. Include only commands that change the model (i.e. no BAT_GEXMBUS, BAT_FDNS, etc.)
3. In the first line of the idev, add the following:
 - a) Idev creations date
 - b) RTEP case year
4. Include the applicable season that the idev is applicable to in the file name (WIN, SUM, LL, or All)

Applicable season in file name

Include creation date

Include RTEP year

```
#####1-#####2 Rating Correction_SUM.idv
1 /*Generated on FRI, MAY 26 2023 12:54, PSS(R)E release 34.07.00 for 2028 RTEP
2 BAT_GEXMBUS,#####1
3 /*Rate A and B correction for Bus1-Bus2 (#####1-#####2) 138 kV
4 BAT_BRANCH_CHNG_3,#####1,#####2,'1',,,,,,,,,,,,,,,,,,,,,, 500.0, 500.0,,,,,,,,,,,,;
5 BAT_FDNS,1,0,1,1,1,0,0,0
```

Only commands that change the model, with comments explaining the change

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Revision History

V1 – 06/02/2023 – Original slides posted

**PROTECT THE
POWER GRID
THINK BEFORE
YOU CLICK!**



Be alert to
malicious
phishing emails.

Report suspicious email activity to PJM.
(610) 666-2244 / it_ops_ctr_shift@pjm.com

