

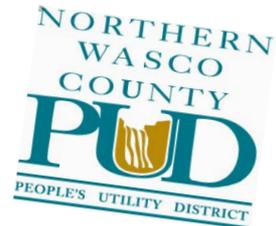


# TOP ANNUAL WORKING SESSION

AUGUST 27, 2020



# Welcome!



# Summer Safety Moment

Protecting Your Skin from the Sun



# Reminders about Sunscreen

Source: [Hillcroft Medical Clinics](#)

- **Avoid or be extra vigilant of sun exposure between 10am and 2pm**
  - This is when the sun is most intense – overcast or not!
  
- **Use sunscreen with at least SPF 30**
  - Reapply every two hours if swimming or sweating
  - Check the expiration date on the container
    - Most sunscreen has a three year shelf life  
(or less, if it's been stored in high temperatures)
  
- **Apply thoroughly**
  - Commonly missed spots are the tops of your ears, neck, part-line in your hair, and tops of feet if wearing sandals



# How to Avoid a Sunburn

Source: [Hillcroft Medical Clinics](#)

- **Seek shade**

- Wear sunglasses to protect your eyes (helps to avoid cataracts and wrinkles)
- Wear a hat



- **Be sure to drink water**

- Keeps you and your skin hydrated



- **Eat more berries**

- Load your body with antioxidants – they can help prevent damage to tissue after sun exposure



# Closing

Source: [Hillcroft Medical Clinics](#)

- *Ultraviolet (UV) rays from the sun can cause skin damage in as little as 15 minutes*
- **BE VIGILANT:** Perform regular skin checks on yourself  
Look for any changes to moles, freckles, birthmarks  
See any irregularities? Have them checked by your healthcare provider or dermatologist

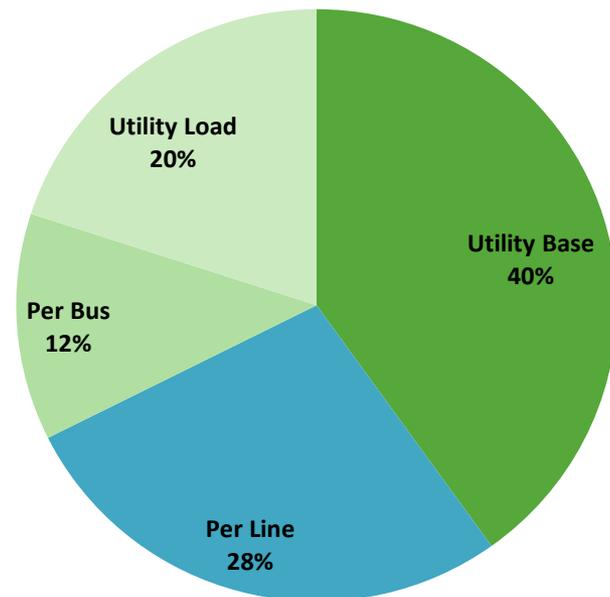


"I'm warning you, Edgar. You're getting too much sun."

# 2021 Cost Allocation

- TOP Services project has reached sustainment mode
- Reduction in overall Operating Budget
  - \$83,000 ~ 10% due to BPA reduction of overheads
- Cost distribution slightly modified
  - Base: 40% vs 36%
  - Load: 20% - 20%
  - Bus: 12% vs 13%
  - Line 28% vs 31%

Total Project Cost Distribution



Note:

These percentages change based on number of customers, elements, and MW sizes.

# RC WEST TIMELINE

- Cause for Change: IRO-10  
(Reliability Coordinator Data Specification and Collection)
  - Primary force driving the submission deadlines for the RC modeling of system changes
  - Specifically – 3.1.6. Section 6 - System Network Modeling:
    - The EMS Network Model updates will be provided through the Model Update Process. Model update details are in the RC0120A and RC0120B attachments and, unless otherwise specified, are required in accordance with the Full Network Model schedule posted on the RC Portal (additions, deletions or changes in energized equipment). If there are no network changes, then there is no need to submit updates.



# RC WEST TIMELINE

**Published by the RC for 2021:** Models are put into production deployment roughly monthly and that the submission deadlines are roughly 90 days before the production deployment date.

FNM Label	Customer Model Document Submission Deadline	ISO Publishes Final Scope	Production Deployment
21M2_DB102	10/23/2020	11/13/2020	Week of 2/1/2021
21M3_DB103	12/17/2020	1/7/2021	Week of 3/15/2021
21M4_DB104	2/4/2021	2/25/2021	Week of 4/26/2021
21M6_DB105	3/11/2021	4/1/2021	Week of 6/7/2021
21M7_DB106	4/15/2021	5/6/2021	Week of 7/19/2021
21M8_DB107	5/27/2021	6/17/2021	Week of 8/23/2021
21M10_DB108	7/8/2021	7/29/2021	Week of 10/4/2021
21M11_DB109	8/19/2021	9/9/2021	Week of 11/15/2021

# BPA's IMPLEMENTATION OF RC WEST'S TIMELINE

The equipment that is included in the production deployment needs to be valid until the next production deployment date. So, a piece of equipment coming online on 8/1/2021, it needs to be included in the production deployment of 7/19/2021, which needs to be submitted to RC West by 4/15/2021. In that case, we're talking about **more than 90 days** to submit the information for that piece of equipment.

BPA modeling groups need time to be able to incorporate changes into their regularly scheduled system updates as well.

This table reflects dates that take both of those factors into consideration:

FNM Label	TOP/ BPA SCADA Modelers Deadline	BPA Production Deployment	Customer Model Document Submission Deadline	ISO Publishes Final Scope	Production Deployment	Model Needs to Support Changes through to the next Production Deployment
21M2_DB102	10/01/20	10/15/20	10/23/2020	11/13/2020	Week of 2/1/2021	03/19/21
21M3_DB103	11/25/20	12/09/20	12/17/2020	1/7/2021	Week of 3/15/2021	04/30/21
21M4_DB104	01/20/21	02/03/21	2/4/2021	2/25/2021	Week of 4/26/2021	06/18/21
21M6_DB105	02/17/21	03/03/21	3/11/2021	4/1/2021	Week of 6/7/2021	07/23/21
21M7_DB106	03/31/21	04/14/21	4/15/2021	5/6/2021	Week of 7/19/2021	08/27/21
21M8_DB107	05/12/21	05/26/21	5/27/2021	6/17/2021	Week of 8/23/2021	10/08/21
21M10_DB108	06/09/21	06/23/21	7/8/2021	7/29/2021	Week of 10/4/2021	11/19/21
21M11_DB109	08/04/21	08/18/21	8/19/2021	9/9/2021	Week of 11/15/2021	Next Production Deployment

# MEGGLIN ELECTRIC



We Shock the Competition

- If Meggin Electric wanted to Normally Close (N.C.) in this already existing Normally Open (N.O.) switch between these two radial >100 kV lines, as a permanent system reconfiguration, this would require at least 160 days' notice to do so
- If Meggin Electric planned on new construction on a BES facility, that would require a 160 days' notice as well, most likely Meggin Electric would have known about that years in advance

Figure E1.17 depicts multiple radial systems separated by a N.O. switching device operated at 100 kV or above.

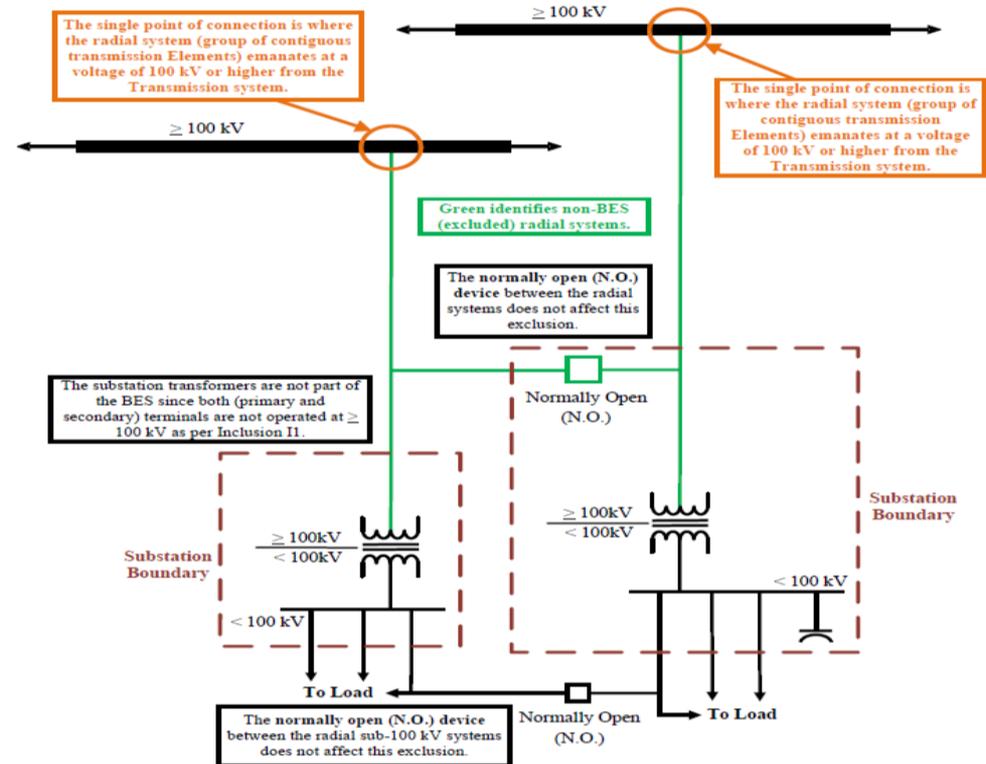


Figure E1.17: Radial System—Normally Open Switching Device between Load Serving Radial Systems

# CONTRACT AMENDMENTS

## AMENDMENT OF AGREEMENT

Section 5(e) of the Agreement is amended as follows:

### 5. CUSTOMER RESPONSIBILITIES

Customer shall provide BPA with a current one-line diagram including BES equipment listed in Exhibit A and covered under this Agreement, and Customer shall provide an updated one-line diagram at least 160 days prior to modifying its BES equipment.



## Exhibit A – Equipment List

### REVISIONS

Customer shall notify the BPA Customer Service Reliability Program (CSRP) by submitting the Equipment Update Form when updates to this exhibit are necessary to accurately reflect the facilities over which BPA will carry out BPA's assigned TOP responsibilities. Customer shall also inform CSRP as early in the planning process as practicable, but no later than 160 days before changes are made, when Customer identifies the need for equipment changes. The Parties shall revise this exhibit to reflect such changes. The Parties shall mutually agree on any such exhibit revisions.

The effective date of any revision to this exhibit shall be the latter of the date the actual circumstances described by the revision occur or the date necessary visibility and control equipment is installed, or as otherwise agreed to by the Parties.



# TOPIC Review

Bonneville Power Administration

## TOPIC

Transmission Operator Integrated Compendium

Processes and Guidelines

Version 6.0

Prepared by the BPA CSRP Team

### Recent Changes:

- Notice of change has been moved to 160 days from 90 days (IRO-010)
- Cost Allocation Process Steps:
  - Changed to be more open regarding timeframe of CSRP rolling out draft numbers
  - Changed to be more open about timeframe of CSRP answering cost-related questions in the fall/winter (formerly winter) TOP working group session
- Cost Reconciliation Process:  
Changed to fall/winter from late summer to roll out draft numbers and answer cost-related questions
- TOP Annual Letter Process  
Clarification on which compliance letter (Section 4c) would be sent by March 31<sup>st</sup>
- Errata changes throughout
- Changed annual customer meeting timeframe to fall/winter from late summer

# Equipment Change Process



**Why** all the data requests?

Fulfilling the TOP function on behalf of other customers has been an evolving process for BPA.

Topology or ratings changes have direct impact on ability to correctly operate the system. Inaccurate modeling data will yield incorrect study results and real-time misoperations.

This can result in possible curtailments, load drops, or other scenarios.

TOP customers can help mitigate such situations with thorough and timely data updates to keep BPA modelers and dispatch informed of changes.



# Equipment Change Process

What are the **general** topology changes?

What is the nature and scope of change?

What elements and facilities are affected?



What are the **specific** data changes?

What are the data specifications for new/changed equipment?

Ratings, Impedances, Line Length, Conductor type, Load?

Updated one-line diagram?

*\*Any data requested in FAC-008, MOD-032 data requests*

**Deliver** specific data changes as soon as possible

Ensures BPA can act on new information in a timely manner

Supports 160-day notification timeline



# Thank You & Stay Safe!

