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2020 10-Year Assessment Preliminary Solutions

Stakeholder and Customer Presentation – May 12, 2020 Chris Hagman

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Purpose

- Solicit Input on Solutions
 - Network/System Planning
 - Generation Interconnection/Generation to Transmission (G-T) and Distribution to Transmission (D-T)
 - Asset Renewal
 - Communications
- Solicit Input on Public Policy Driven Needs
- Next Steps/Feedback



Changing Landscape

- Project needs are shifting.
 - Reduced need for new load-growth driven projects.
 - Both the G-T and D-T queues are large.
 - Asset Renewal projects address reliability risks.
 - Communications projects address telecommunication risks.
- Last meeting comprehensively covered all of these
 - Deeper dive into projects needed to support interconnecting new generators (G-T projects) and Asset Renewal projects.



New TYA Projects/Solutions

- ATC's latest list of TYA projects included.
 - Orange highlighted projects are new.

Project Name	2020 Estimated In-Service Year	ZONE	Need Category	Planned / Proposed / Provisional	MISO MTEP Appendix (BOLD = Certified)	MTEP PRJID	Cost
Petenwell - Council Creek (X-40), OPGW Installation	2024	1	Communication	Provisional			\$ 8,600,000.00
Blount - East Campus, 69kV, (6907), underground cable replacement	2020	3	Damage	Planned	A in MTEP20	18848	\$ 9,000,000.00
J821 GIC Zenith SS - Generator Interconnection Facilities and Network Upgrades	2021	1	G-T Interconnection	Proposed	A in MTEP20	18567	\$ 7,235,132.00
J855 GIC Ebenezer SS - Generator Interconnection Facilities and Network Upgrades	2020	3	G-T Interconnection	Planned	A in MTEP20	18655	\$ 5,526,333.00
J870/J871 MPFCA Highland SS, Generator Network Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	17525	\$ 16,655,765.00
J870 GIA Highland SS Interconnection Facilities	2020	3	G-T Interconnection	Planned	A in MTEP20	18849	\$ 230,118.00
J807 GIC Falcon SS Addition - Generator Interconnection Facilities and Network Upgrades	2021	3	G-T Interconnection	Planned	A in MTEP20	18566	\$ 870,186.00
J850/J878 MPFCA East Paris New SS	2022	5	G-T Interconnection	Proposed	A in MTEP20	18985	\$ 25,525,101.00
Weston - Sherman Street, 115kV line (Z-52), uprate	2023	1	Reliability	Proposed	A in MTEP20	14909	\$ 997,000.00
Lost Dauphin - Red Maple 138kV (Q-147), uprate	2023	4	Reliability	Proposed	A in MTEP21	14964	\$ 635,000.00
Maine - Hilltop 115kV line (U-11), uprate	2023	1	Reliabilty	Proposed	A in MTEP20	14909	\$ 835,000.00
Klondike SS, New DIC	2020	3	T-D Interconnection	Proposed	A in MTEP19	14906	\$ 1,000,000.00
Waterloo SS, new DIC	2021	3	T-D Interconnection	Planned	A in MTEP19	14906	\$ 2,700,000.00

- G-T projects—Largest share.
- Timeline--shows what is coming up.



Timeline

Assessment Reliability

REQUEST LDC LOAD FORECASTS

10-Year Assessment '21

10-Year Assessment '20

10-Year Assessment '19

STAKEHOLDER MEETING: 2019 TYA SUMMARY, 2020 STUDY DESIGN (11-4-19)

STAKEHOLDER MEETING: 2020 TYA PRELIMINARY NEEDS (3-10-20)

STAKEHOLDER MEETING: 2020 TYA SUMMARY, 2021 TYA STUDY DESIGN (11-17-20)

PRELIMINARY 2019 LOAD FORECAST CONF. & MTEP20 SUPPORT STUDIES

CONFIRM LF AND FINALIZE PLANNING CRITERIA

STAKEHOLDER MEETING: 2020 TYA PRELIMINARY **SOLUTIONS (5-12-20)**

POST 2020 TYA REPORT ON WEB (11-2-20)

Jan-19 Feb-19 Mar-19 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19 Oct-20 Nov-20 Dec-20 Mar-20 Apr-20 Jun-20 Jun-20 Jun-20 Sep-20 Oct-20 Nov-20 Dec-20

ATC Economic

Planning

TRANSMISSION OWNER'S SUBMIT PROJECTS TO MTEP20 **DATABASE (SEPT. 15)**

1ST SPM MTEP20 **PRESENTATION** OF PROJECTS

TO'S SUBMIT PROJECTS TO MTEP21 DB (SEPT. 15)

2ND SPM MTEP20 REVIEW OF **NEEDS & SOLUTIONS**

MISO BOD **REVIEW & APPROVAL**

3RD SPM MTEP20 **OF 2019 TYA** PRESENTATION OF FINAL PROJECTS **PROJECTS**

MODELS

PRIORITIZE STUDY REQUESTS AND ASSUMPTIONS

> IDENTIFY ECONOMIC STUDY, **ASSUMPTIONS, COMMENTS**

> > **FINALIZE 2 AREAS OF ECONOMIC STUDY /** ASSUMPTIONS / MODELS

MTEP20 PROMOD





Status

Completed

- Requested load forecast from LDCs February 2019
- Study Design meeting held November 4, 2019
- Preliminary needs meeting held March 10, 2020

Next Steps

- Solutions comments due June 2, 2020
- Start drafting TYA on-line report May 2020
- Complete TYA on-line draft report September 2020
- ATC internal review/approval October 2020
- 2020 TYA on-line publication October 2020



Feedback

 Any public policy driven needs that may not be covered by the Assessment process?

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