



2022/2023 ARR/FTR Update

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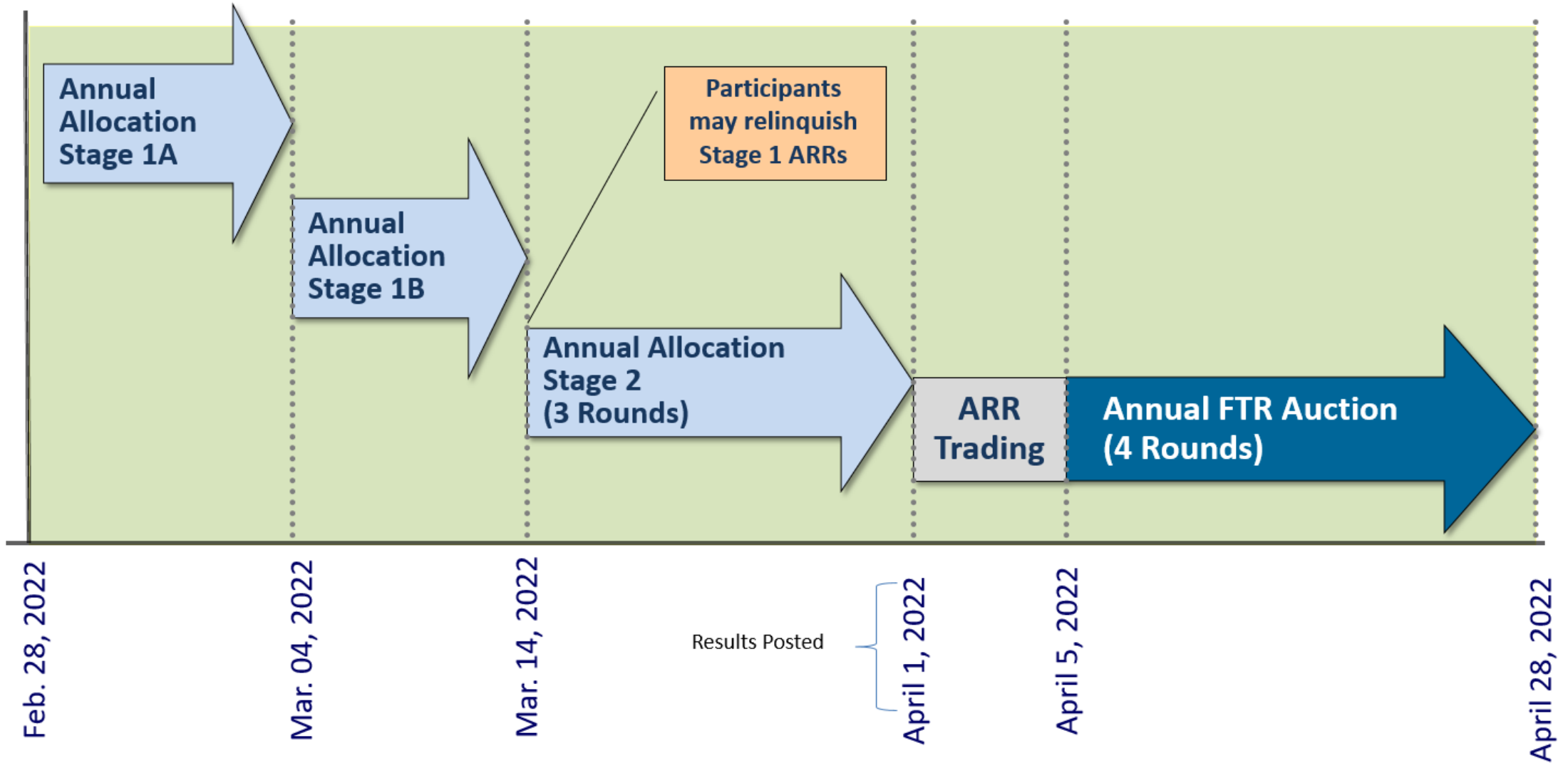
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Market Implementation Committee

February 9, 2022

- 2022/2023 ARR allocation and FTR Auction
 - Timeline
 - List of preparations
 - Credit changes

- AFMTF updates



- Zonal Base Load (ZBL) and Network Service Peak Load (NSPL)
 - File posted on FTR website on 1/26/2022

- ARR Stage1 eligible resources
 - File posted on FTR website on 2/7/2022

- Identification of RTEP upgrades to-be modeled for simulated credit reference pricing*
 - See appendix for list

*Subject to change depending on FERC approve on Initial Margining Calculation

- Additional files to be posted throughout February:
 - Transmission outages
 - Key system upgrades modeled
 - M2M Flowgates
 - Loop Flow
 - Contingencies modeled
 - Point-to-Point ARR nomination form
 - IARRs for RTEP upgrades allocated
- EDC's must upload estimates of June 1, 2022 Network Service Peak Load (NSPL) contributions into Capacity Exchange by Thursday, February 10, 2022

- Parallel operations is planned to start for March Auction
- Will provide the new credit calculation and user interface training through Tech Change Forum.

- Will conduct a survey to help guide the future direction of the ARR/FTR workshops
- Plan to implement FTR-related changes in September, 2022*
- Plan to implement ARR-related changes in February, 2023*

*Depending on FERC approve of ARR/FTR Enhancement

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Annual ARR/FTR Update



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Appendix



Appendix – Transmission upgrades modeled for FTR Credit

2022-2023	
Upgrade Id	Description
b3006	Replace four Yukon 500/138 kV transformers with three transformers with higher rating and reconfigure 500 kV bus
s2381	Loop the Hunterstown – Lincoln 115 kV line, approximately 9 miles, into Orrtanna substation by constructing a double circuit 115 kV line adjacent to the existing radial 963 line. Remove the existing radial 963 line from Orrtanna tap to Orrtanna (approximately 9 miles)
b3145	Rebuild the Hunterstown - Lincoln 115 kV line (No.962) (~2.6 mi.). Upgrade limiting terminal equipment at Hunterstown and Lincoln.
s2442.3	Gomer Station: Cut in the North Delphos – East Side 138 kV line and install a 138 kV Box Bay with two 138 kV, 3000A auto-sectionalizing MOABs to provide service to AEP Ohio’s new Gomer Delivery Point.
s1819.1	Gardners 115 kV Substation - replace Line relaying, CCVT, line trap, line tuner, coax, arresters, substation conductor, circuit breaker and disconnect switches
s1885	Replace line relaying, line trap, substation conductor and line drops, and circuit breaker on the North Meshoppen 115 kV line exit at the Lenox substation.

2023-2024	
Upgrade Id	Description
b3026	Re-conductor the entire 230 kV Line No.274 (Pleasant View – Ashburn – Beaumeade) using a higher capacity conductor with an approximate rating of 1572 MVA.
b3318	Reconductor the Shanor Manor - Butler 138 kV line with an upgraded circuit breaker at Butler
b3214	Reconductor the Yukon – Smithton – Shepler Hill Jct 138 kV Line. Upgrade terminal equipment at Yukon and replace line relaying at Mitchell and Charleroi
b3328	Upgrade the disconnect switch (13710-L1) and CT at Vienna
b3213	Install 2nd Chickahominy 500/230 kV transformerRelocate the Chickahominy – Elmont 500kV line #557 to terminate in a new bay at Chickahominy substation and relocate the Chesterfield – Lanexa 115kV line #92 to allow for the expansion of the Chickahominy substation • Add three new 500 kV breakers with 50kA interrupting rating and associated equipment
b3223.1	Install a 2nd 230kV circuit with a minimum summer emergency rating of 1047 MVA between Lanexa and Northern Neck Substations. The 2nd circuit will utilize the vacant arms on the double-circuit structures that are being installed on the Line #224 (Lanexa-Northern Neck) End-of-Life rebuild project (b3089).