

ALLATOONA RESERVOIR WATER SUPPLY STORAGE REALLOCATION AND COOSA BASIN FLOOD POOL REALLOCATION STUDY

Southeastern Federal
Power Alliance
18 DEC 2018



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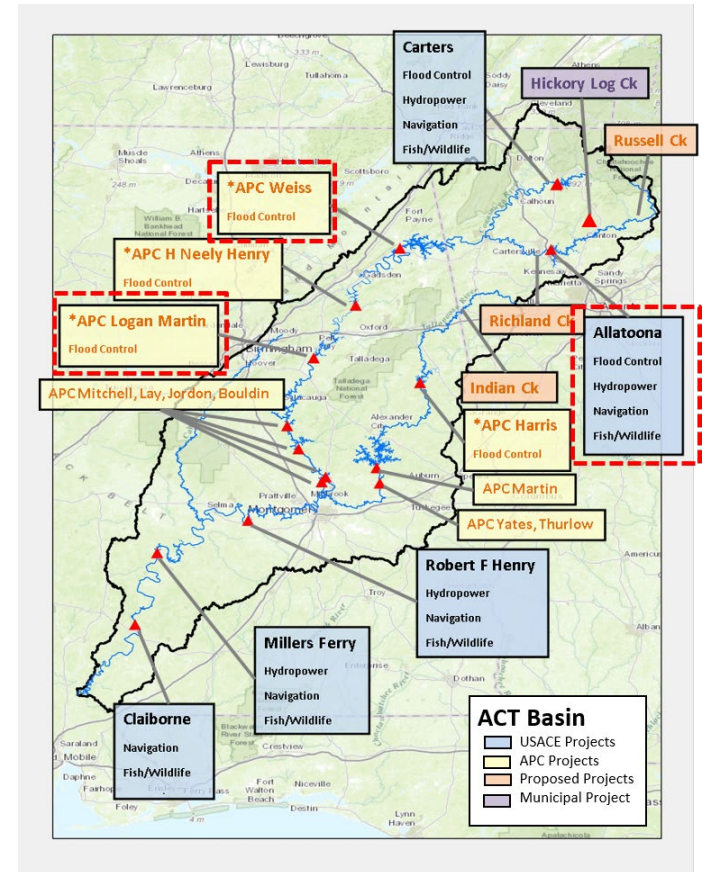


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AGENDA

- Provide update on actives within the ACF and ACT basins
- Discuss combined Allatoona Water Supply Reallocation Study and the Coosa Basin Flood Pool Reallocation Study
- Timeline for Completion



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ACT WCM UPDATE

✓ Background

- Initiated October 2007
- 1 master manual, 7 project manuals, 1 Environmental Impact Statement (EIS)
- Based on existing water supply policies and contracts
- Water Control Manuals approved and Record Of Decision signed by the South Atlantic Division (SAD) Commander – 7 May 2015

✓ Approved Operational Changes

- Basin-wide drought management plan
- Seasonal navigation releases
- Basin-wide Environmental Impact Statement coverage
- Revised action zones and guide curves (Allatoona), revised action zones (Carters)
- Seasonal minimum flows at Carters for aquatic environment
- Hydropower schedule modifications

X What wasn't addressed

- Long-term water supply requirements from Allatoona Reservoir
- Disagreements regarding storage accounting
- Hickory Log Creek Reservoir additive flows
- Logan Martin and Weiss Dams flood easement concerns
- Local residents desires for higher winter pool levels



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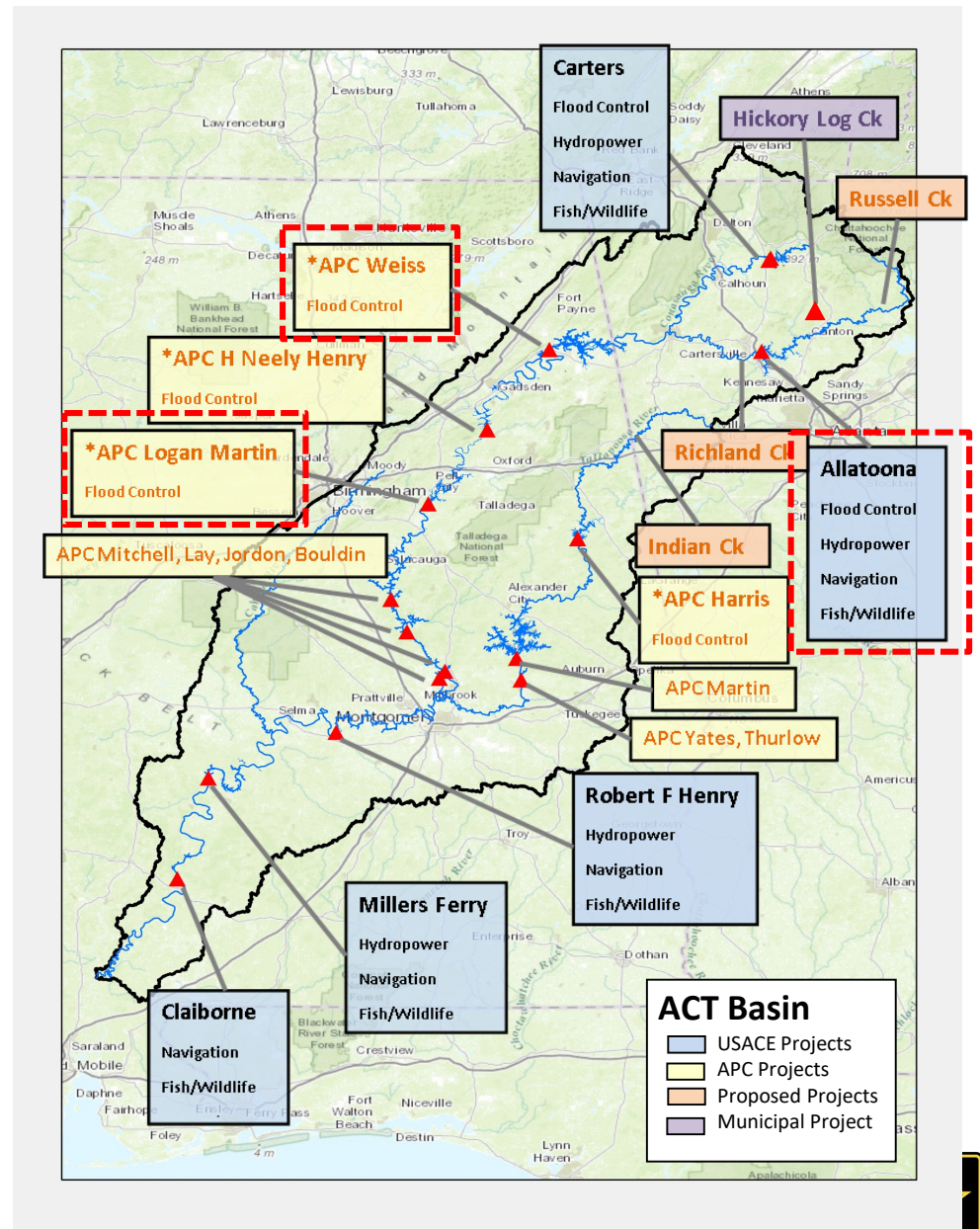


STUDY EFFORTS

Allatoona Water Supply Reallocation

Coosa River Flood Operation Evaluation

- APC Weiss
- APC Logan Martin
- APC H Neely Henry



STATE OF GEORGIA

UPDATED WATER SUPPLY REQUEST

- Received 30 MAR 2018
- 2050 Water Supply need from Allatoona Reservoir is 94 Million Gallons Per Day (MGD)
 - 57 MGD for Cobb County Marietta Water Authority
 - 37 MGD for City of Cartersville
- Assumes full credit for Hickory Log Creek Reservoir releases
- Assumes water supply storage request is based on net storage vs. gross storage
- Recommends that USACE consider:
 - Alternative storage accounting methodology
 - Utilization of pass through conveyance
 - Return Flow crediting practice



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GEORGIA WATER SUPPLY REQUEST REVISED

Current Contracts

- 13,140 ac-ft and 6,371 ac-ft
- Expected Yield 34 mgd and 16.76 mgd respectively
- Updated Yield **22.9** mgd and **11.1** mgd respectively

Request increase to 94 mgd

- CCMWA **57** mgd plus Cartersville **37** mgd
- 19 % of updated yield (currently 6.9%)
- Total storage 54,078 ac-ft
- Reallocation amount (60 mgd)
 - $54,078 - 12,485 - 6,054 = 35,539$ ac-ft

* Please note the storage reallocation values on the slide are provisional and for discussion purposes only. The values are based on our current practice and assumes no reallocation from the flood or inactive pools.

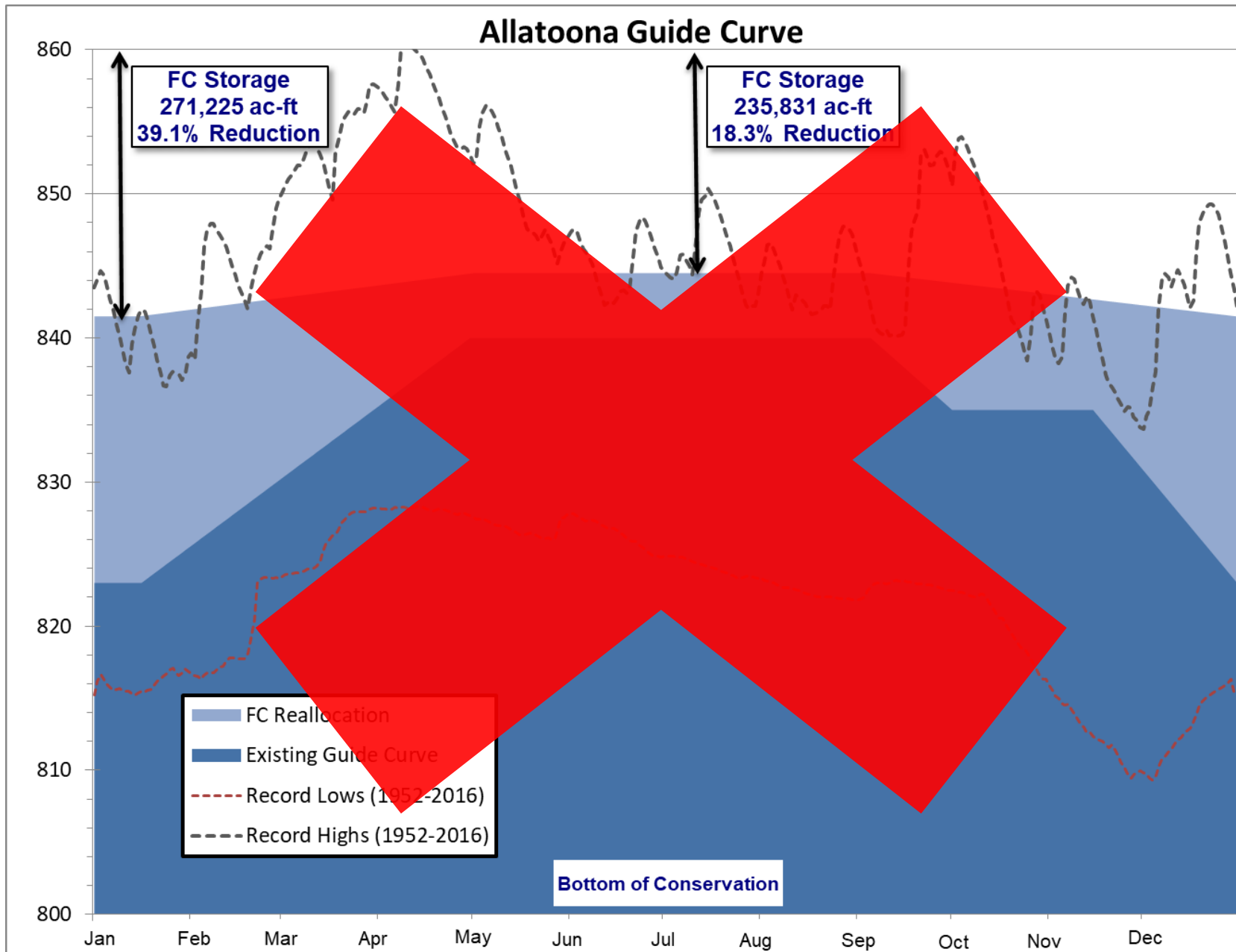


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FULL REALLOCATION FROM FLOOD STORAGE

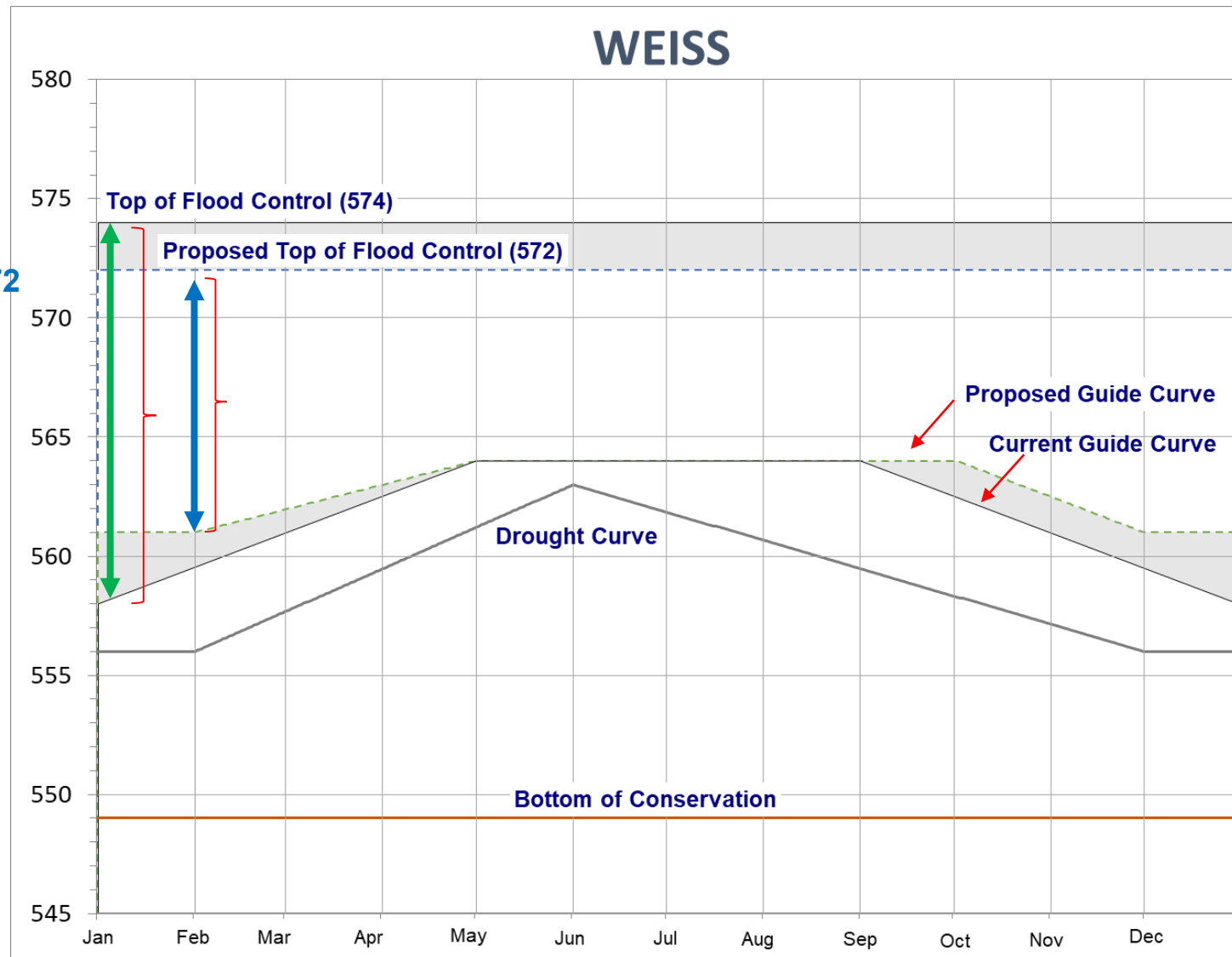
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WEISS PROPOSED CHANGE

APC Proposal

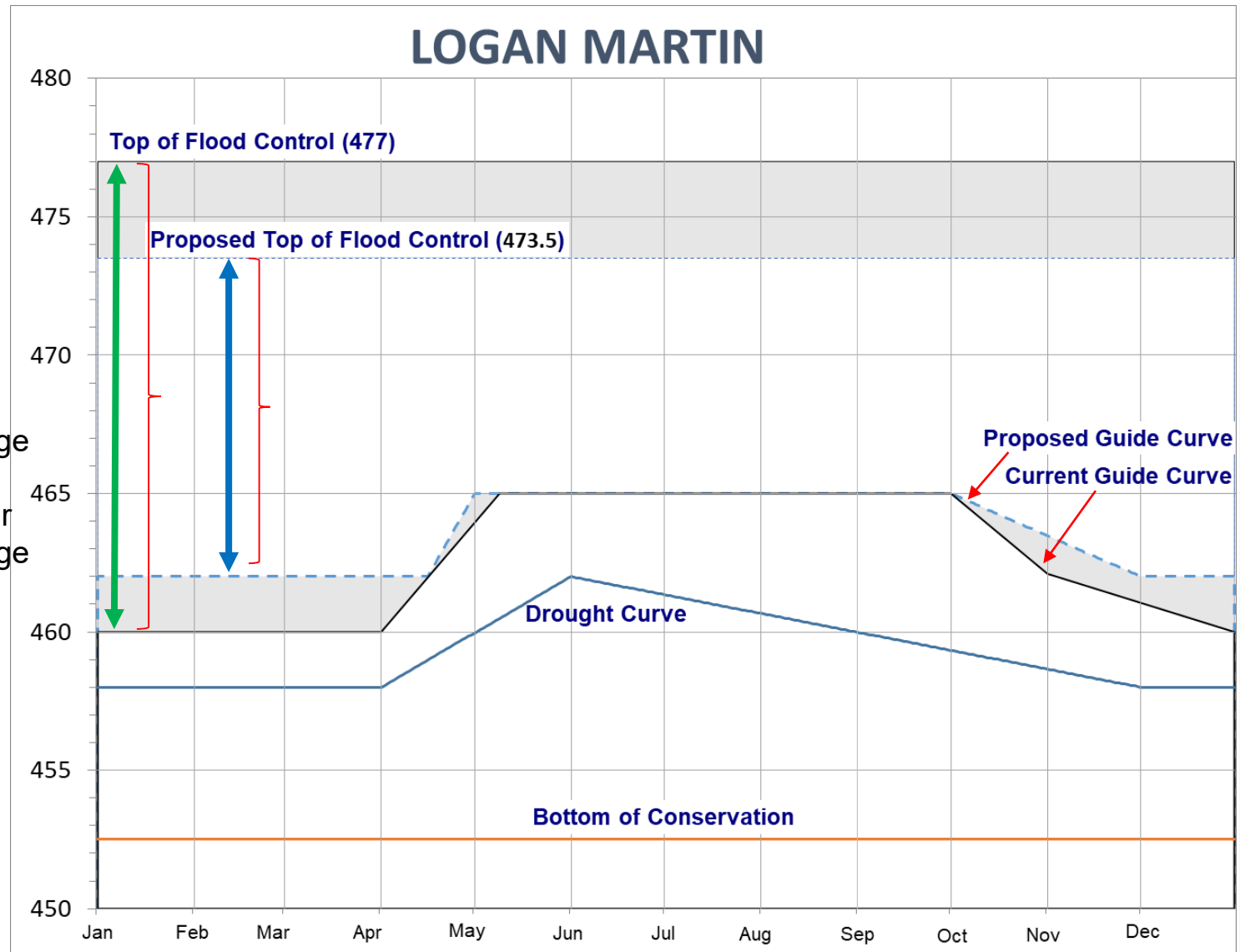
1. Raise Winter Level from **558** to **561**
2. Lower Top of Flood Control from **574** to **572**
3. Results in 30% reduction in Winter Flood Control Storage
4. Results in 24% reduction in Summer Flood Control Storage
5. During Surge Operation, Increase releases at same reservoir elevations



LOGAN MARTIN PROPOSED CHANGE

APC Proposal

1. Raise Winter Level from **460** to **462**
2. Lower Top of Flood Control from **477** to **473.5**
3. Results in 35% reduction in Winter Flood Control Storage
4. Results in 35% reduction in Summer Flood Control Storage
5. During Surge Operation, Increase releases at same reservoir elevations



ANTICIPATED TIMELINE

- Notice of Intent – Completed
- Public Scoping – Completed
- Draft EIS/SEIS – Fall 2019
- Public Meetings – Fall 2019
- Final EIS/SEIS – Fall 2020
- Record of Decision – March 2021



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QUESTIONS?



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