

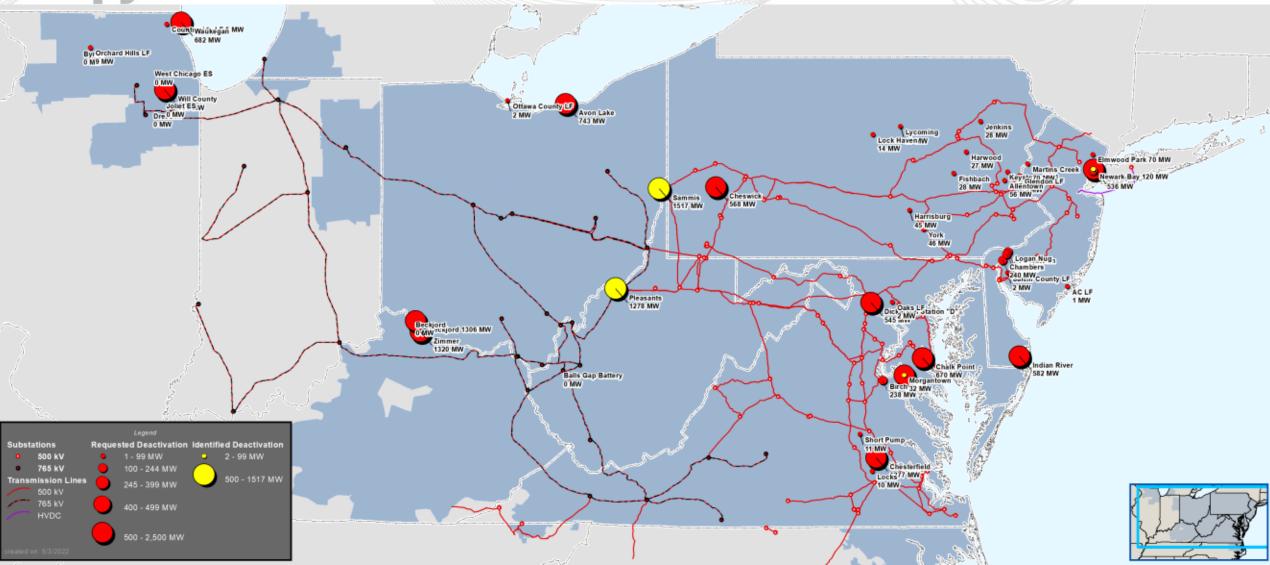
# Generation Deactivation Notification Update

Transmission Expansion Advisory Committee May 10, 2022

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## Generation Deactivation Announcements 2020-2022



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# **Deactivation Status**

Unit(s)	Transmission Zone	Requested Deactivation Date	PJM Reliability Status
Sammis 5,6, and 7 - 1504.3 MW	ATSI	6/1/2023	Reliability analysis complete. New baseline resolves identified impact. Units can retire as scheduled.
Sammis Diesel - 13 MW	ATSI	6/1/2023	
Pleasant 1 and 2 - 1278 MW	AP	6/1/2023	
Morgantown CT1 and 2 - 32 MW	PEPCO	10/1/2022	Reliability analysis is underway.
Carbon Limestone LF - 19.3 MW	ATSI	7/31/2022	Reliability analysis is underway.

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## **ATSI Transmission Zone**

#### Problem Statement: Generation Deliverability – Sammis 5,6, and 7 and Pleasant 1 and 2

Thermal violation: Beaver - Hayes 345 kV line

Contingency: N-1

#### **Recommended Solution (New B3714)**

#### At Beaver:

Replace four 345kV disconnect switches with 3000A disconnect

Replace substation conductors between bus bar and wave trap;
Replace line drop and stranded conductor; and
Upgrade transformer protection relays at two breakers.

#### At Hayes:

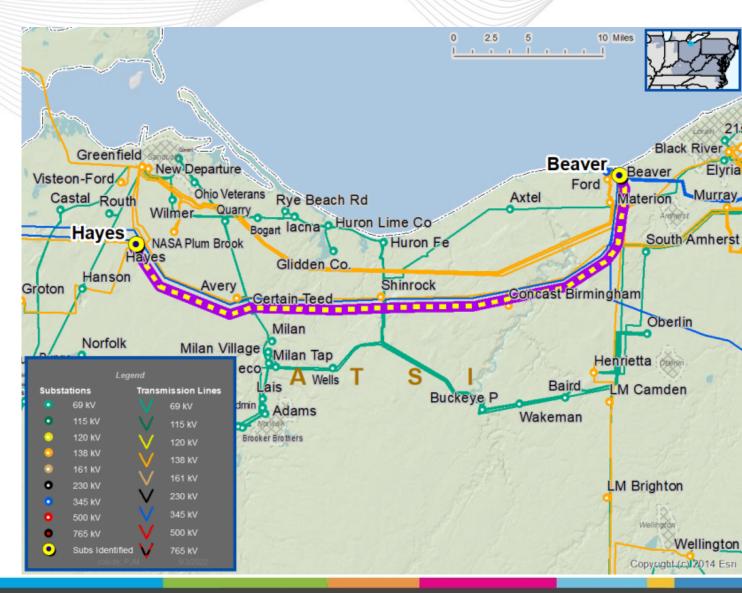
Relay settings changes.

Current Rating: 1380 MVA SN/ 1646 MVA SE
New Rating: 1542 MVA SN/ 1878 MVA SE

Required IS Date: 06/01/2023 Projected IS Date: 06/01/2024

Estimated Cost: \$2.1M

\* Operating measures identified to mitigate reliability impacts in interim.





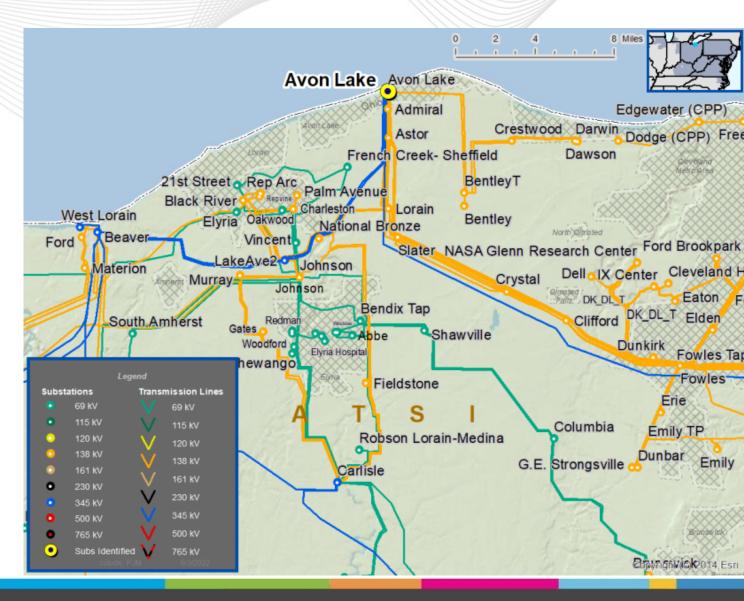
### **ATSI Transmission Zone**

#### Avon Lake 9 and 10 deactivations – 648 MW

- The actual deactivation date was 03/31/2022.
- All impacts and associated baseline projects were presented on 08/10/2021.
- FE recently informed of the necessary substation work associated with deactivating the unit – B3713.
  - Disconnect and remove from the Avon Lake Substation to the plant :
    - five 138 kV bus tie lines & associated equipment; and
    - one 345 KV bus tie line & associated equipment;
  - Adjust relay settings at Avon Lake, Avon, and Avondale substation:
  - Remove fiber to the plant;
  - Reroute existing/install new fiber between the 345 kV and 138 kV yards to re-establish relay protection; and
  - Remove SCADA RTU, communications, and associated equipment from plant.

Estimated Cost: \$2.5M

Projected IS Date: 09/30/2022





## **Revision History**

Facilitator:

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**Generation Deactivation Notification** 



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# **Revision History**

V1 - 05/04/22 - Original slides posted.

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