



GREGORY B. JARVIS PROJECT FERC No. 3211
RELICENSING

Gregory B. Jarvis Relicensing Scoping Meeting

September 26 & 27, 2017 at SUNY Polytechnic Institute

September 26-27, 2017



**NY Power
Authority**

Project History

- **Pre-1915 – West Canada Creek**

- Supplied water to Erie Canal prior to conversion to the Barge Canal.
- Served as the water supply source of Consolidated Water Co. of Utica (MVWA predecessor) with an intake in West Canada Creek at Hinckley.
- Supply of water for hydropower for Utica Gas & Electric (Brookfield predecessor) at Trenton Falls and Newport Electric Light & Power (now Newport Hydro Associates) and to International Paper Co (now ECOsponsible, LLC).

- **1915 – Hinckley Dam commissioned forming Hinckley Reservoir**

- To provide water to the Barge Canal system
- Preserved water rights of existing users. MVWA constructed an intake in Hinckley Dam.
- Canals obligated to provide flows to pre-existing downstream hydropower producers.

- **1970's Energy Crisis**

- In response to energy crisis US government enacted Public Utilities Regulatory Policies Act (PURPA) which, among other objectives, encouraged the development of hydropower.

Project History

- **August 1982**

- FERC issues a 40-year license to the Power Authority to construct a small (9 MW) hydro project at the existing Hinckley Dam and Reservoir utilizing the existing water releases.
- FERC license expires July 31, 2022

- **August 1983**

- NYSDOT conveys an easement to the Power Authority for construction and operation of a hydroelectric generating facility.

- **June 1986**

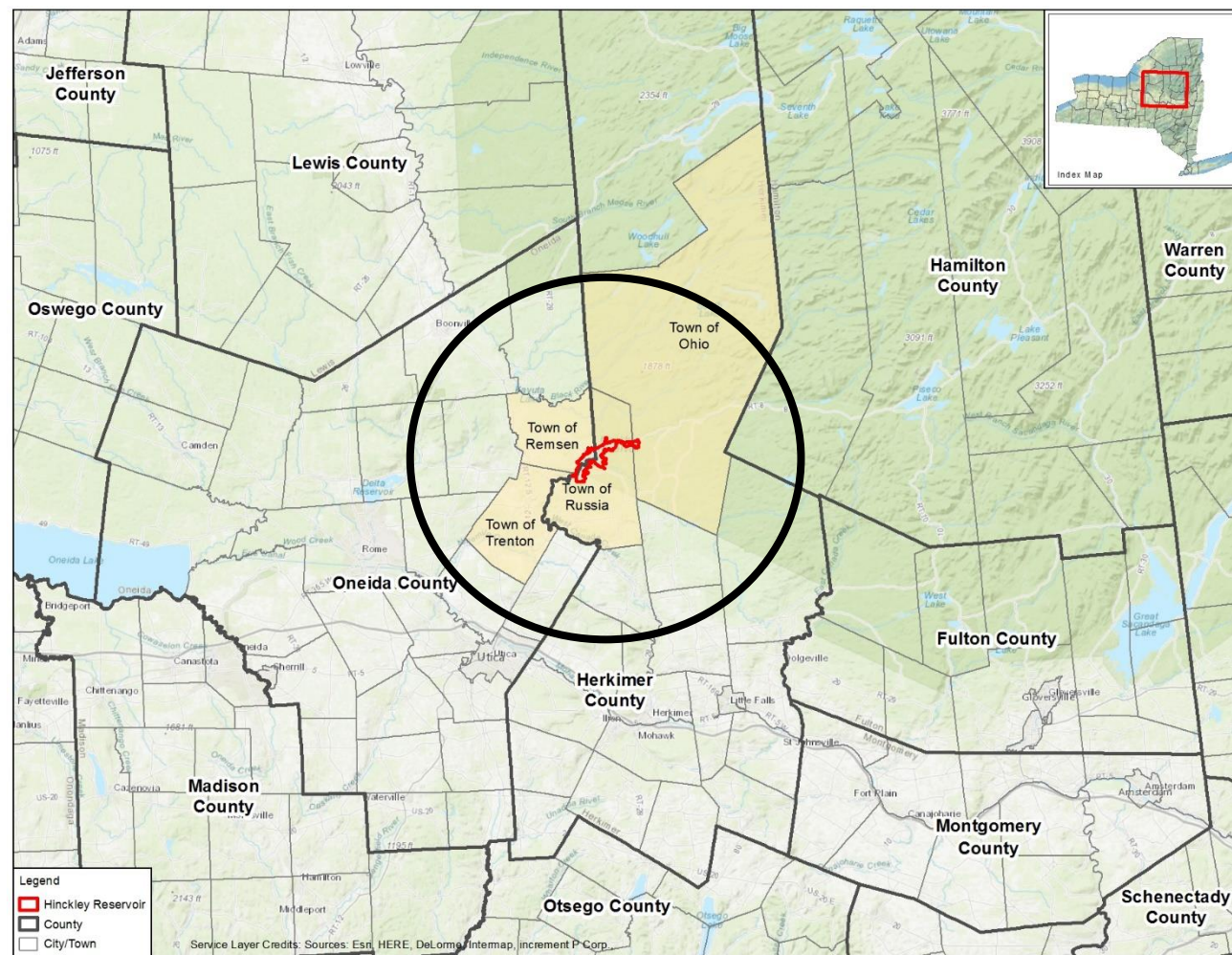
- The power plant is commissioned and dedicated in honor of Gregory B. Jarvis; a Mohawk Valley resident on board the space shuttle Challenger.

- **June 2017**

- NYPA files a notification of intent and a pre-application document with FERC initiating the relicensing process.

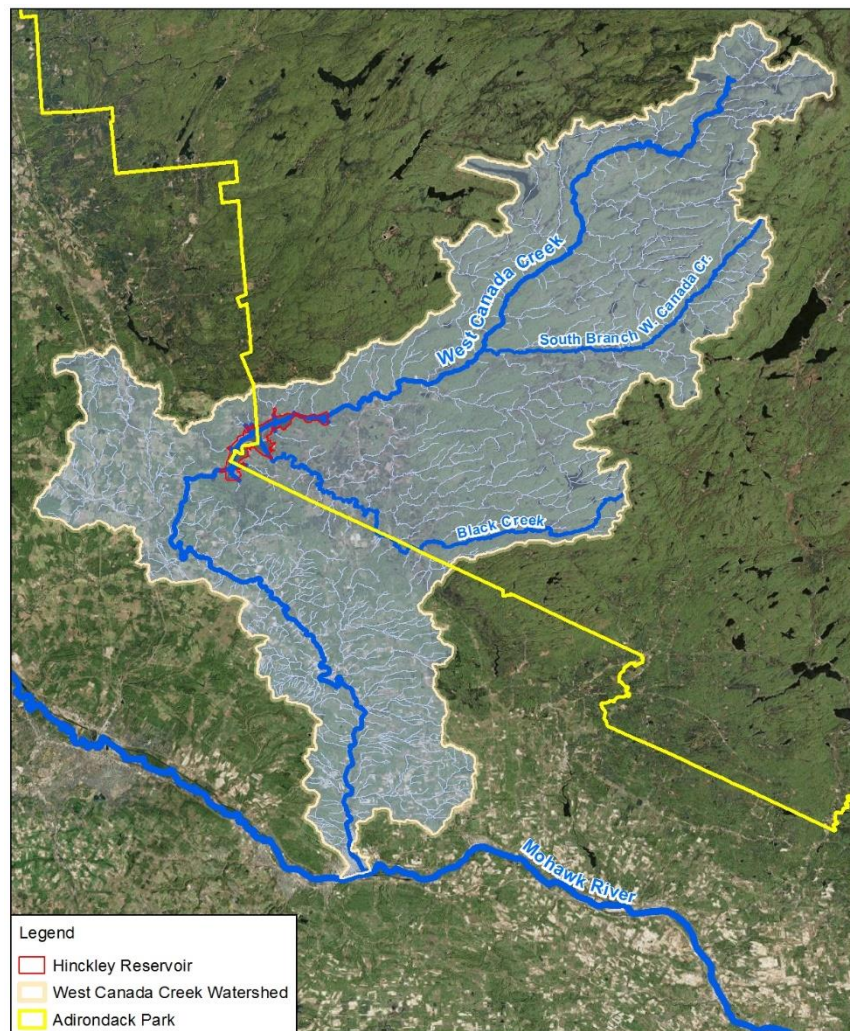
Location

- The Project is located at Hinckley Dam on West Canada Creek
- Herkimer and Oneida Counties
- Towns of Trenton, Russia, Remsen, and Ohio
- About 16 miles northeast of Utica



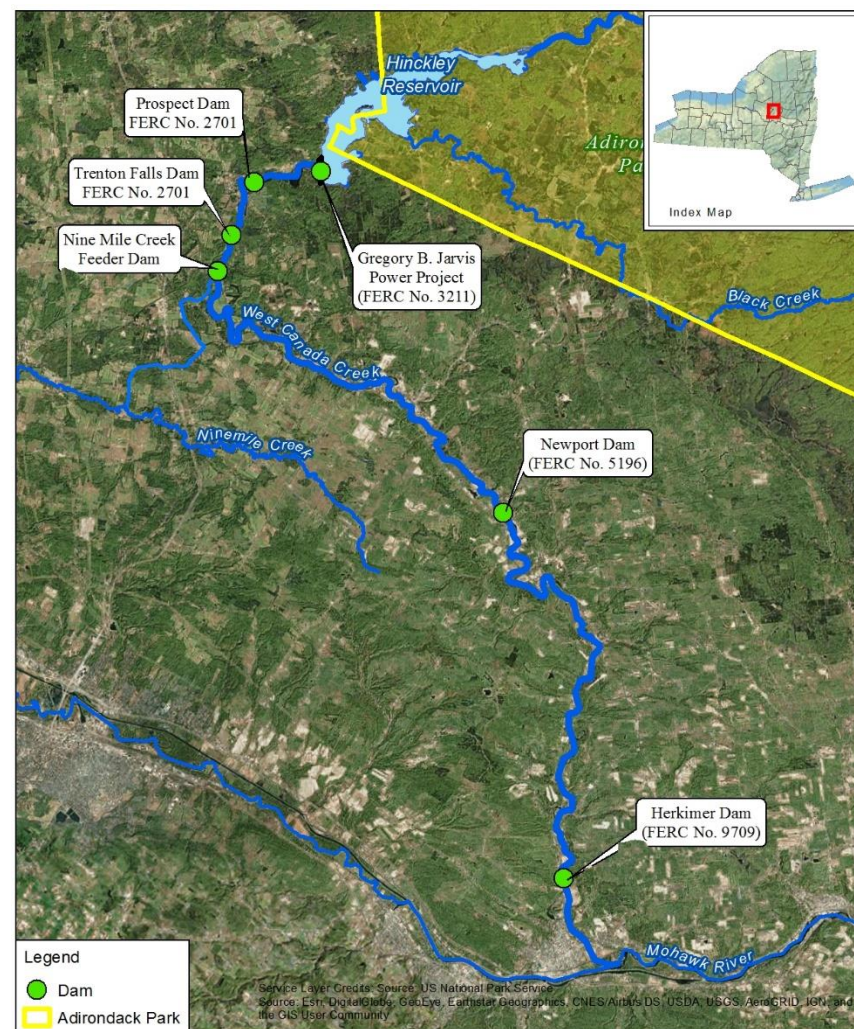
West Canada Creek Watershed

- Total drainage area at Hinckley Dam – 372 mi²
- Total drainage area of West Canada Creek – 561 mi²
- Hinckley Dam is located approx. 35 miles upstream of the Mohawk River confluence
- The Mohawk River is a tributary to the Hudson River and has a drainage area of 3,460 mi²



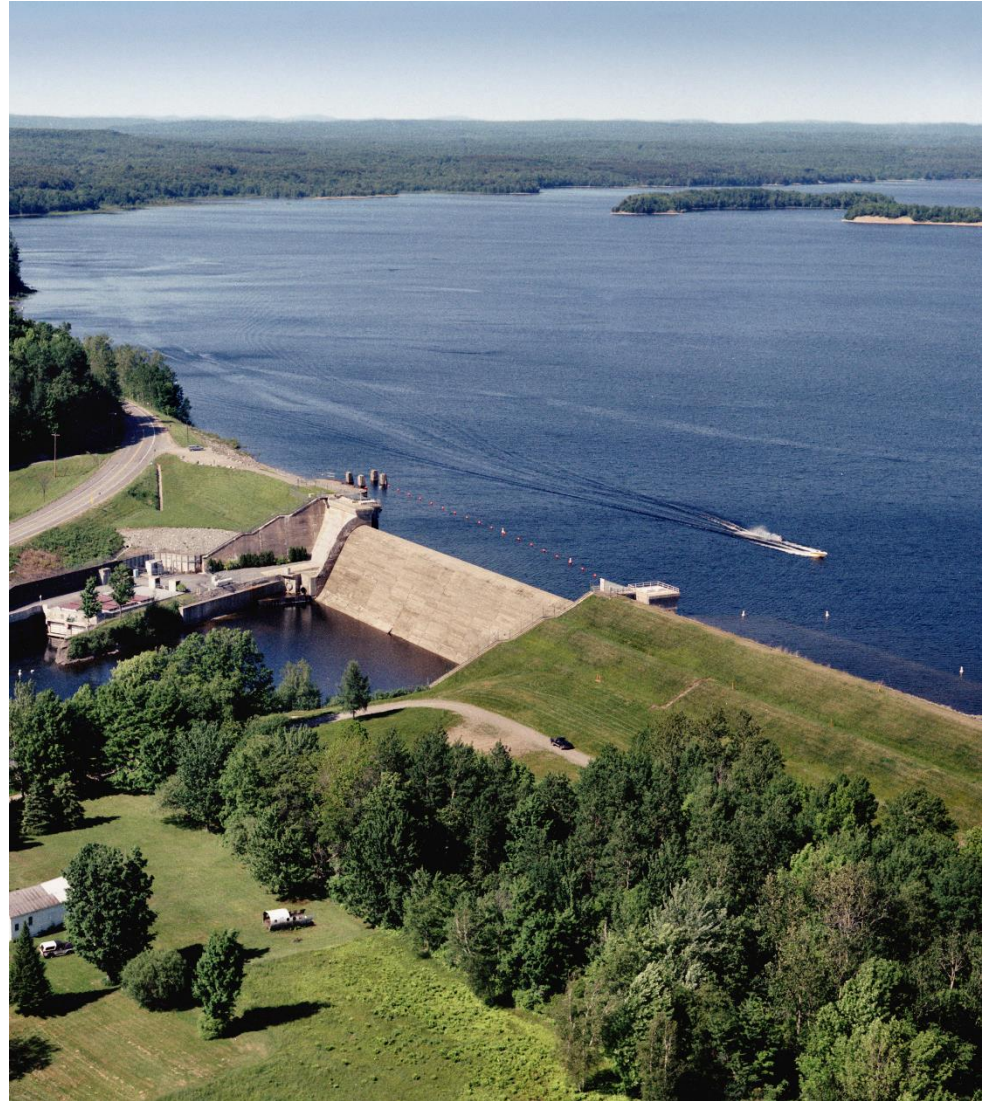
West Canada Creek Dams

- The West Canada Creek Hydroelectric Project is located downstream of Hinckley Dam
- The Nine Mile Creek Feeder Dam is located approx. 1 mile downstream of the Trenton Falls Dam
 - *Site of NYS Canals diversion from West Canada Creek into the Nine Mile Feeder Canal*
 - *Jarvis license requires a continuous min flow of 160 cfs as measured below the Nine Mile Creek Feeder Dam*



Hinckley Reservoir

- 4.46 mi² surface area
- 1225' – Full Reservoir water level elevation
- Approximately 25.8 billion gallons
- Much of the northern and eastern portions are within Adirondack Park



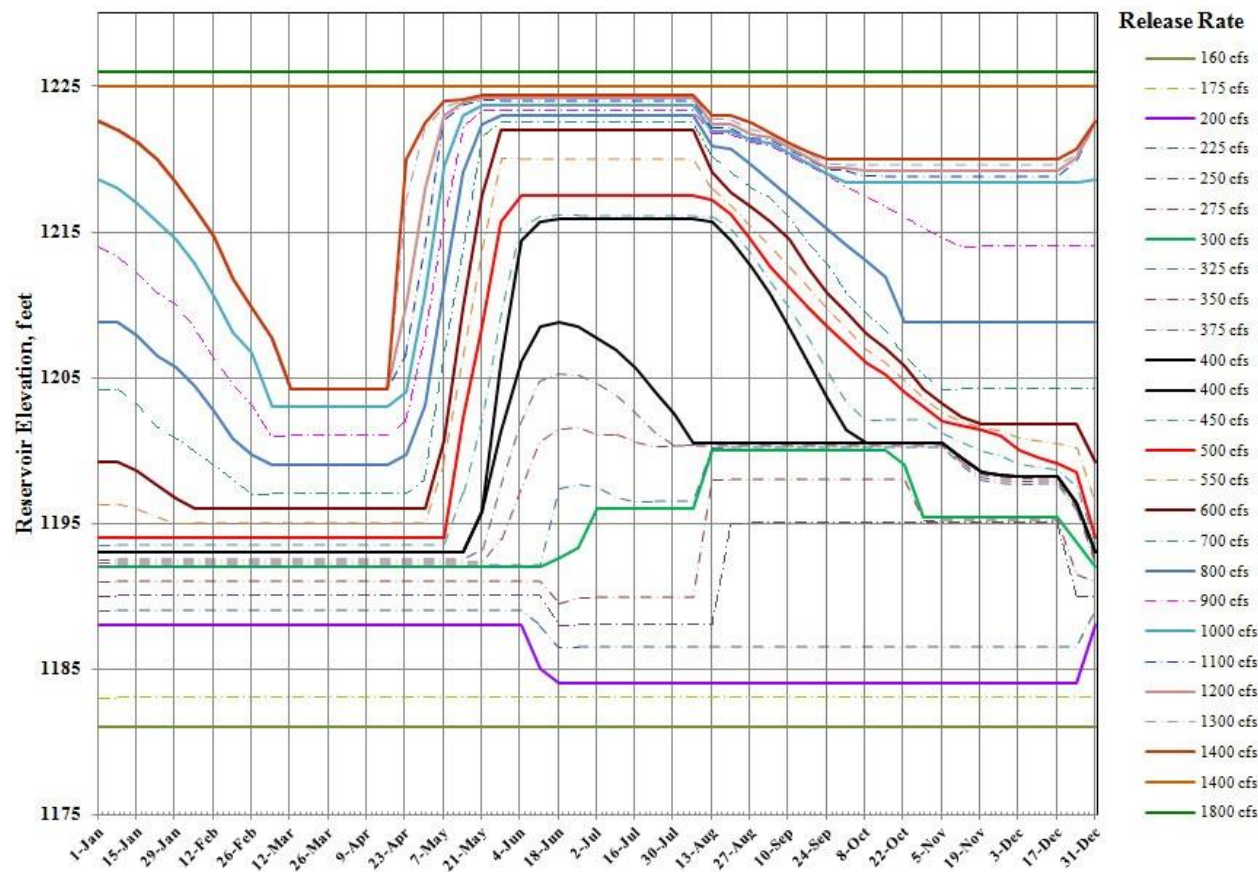
Hinckley Reservoir

- Originally constructed to provide water to the NYS canal system
- Hinckley also provides:
 - *Drinking water source for the greater Utica area (Pre-Hinckley Reservoir)*
 - *Water supplies for hydropower generation (Pre-Hinckley Reservoir)*
 - *Releases to support aquatic resources*
 - *Flood protection*
 - *Recreation*

Reservoir Operations

- Hinckley Reservoir is operated by the NYS Canals per an Operating Diagram.
- The Power Authority does not have the authority or rights to deviate from these releases
- If the Jarvis Project were not to exist, the same reservoir water levels and discharges would still occur

2012 Hinckley Reservoir Operating Diagram

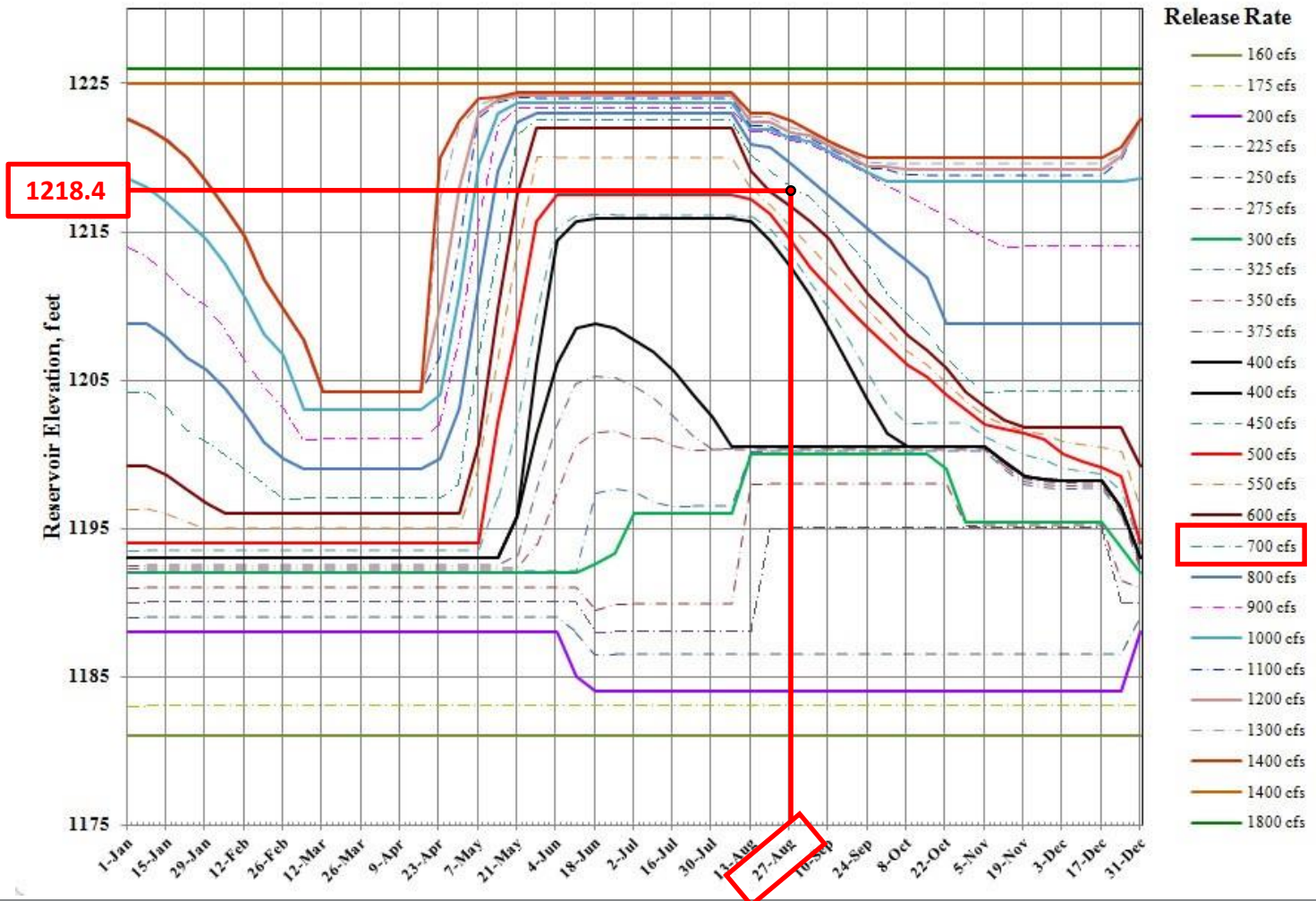


Reservoir Operations - Example

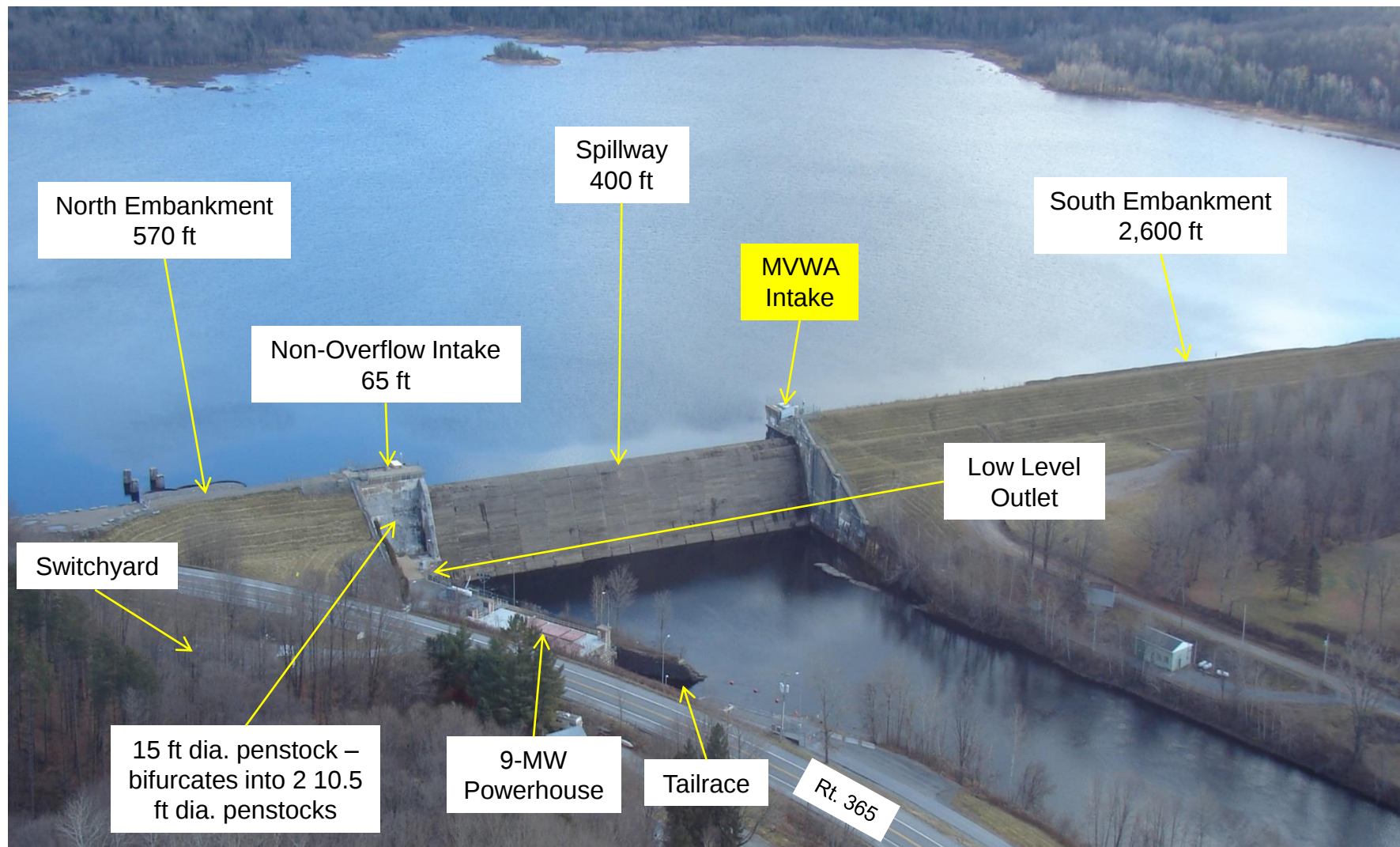
2012 Hinckley Reservoir Operating Diagram

Example:

- August 27, 2017
- Water level 1218.4 ft.
- Outflow 690 cfs



Hinckley Dam Features & Jarvis Project



Jarvis Project



Jarvis Project Operations

- Utilizes the releases determined by NYS Canals in accordance with the 2012 Operating Diagram to generate power.
- Houses two 4.5-MW generators for a maximum capacity of 9-MW.
- Each unit can operate between 300 and 900 cfs – for an operating range of 300 to 1800 cfs. Flows exceeding 1800 cfs are passed by a combination of generation and through the sluice gate.
- Jarvis does not generate when flows are less than 300 cfs or when the Hinckley water level is below 1195’.
- Jarvis has a license commitment to pass a minimum flow of 160 cfs for fisheries. When flows are less than 300 cfs the minimum flow is passed via the low level sluice gate.
- Spill occurs when the reservoir water level is above El. 1225’.

Project Recreation Areas

- Power Authority Boat Launch
 - Formal recreation site, responsibility of the Power Authority
 - Single lane launch of concrete planks and gravel
 - Parking capacity for up to 15 vehicles with trailers
- Scenic area on northern end of dam used for viewing reservoir and Project facilities
 - Informal site, maintained by the Power Authority



Relicensing Information

<http://www.jarvis.nypa.gov>



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FERC No. 3211

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News and Announcements

If you have a relicensing question or would like to join our mailing list please email Jarvis.Relicensing@nypa.gov.

- 8/29/2017 – FERC Issues Scoping Document 1
- **9/19/2017 – Deadline to RSVP to Environmental Site Review Tour – RSVP at Jarvis.Relicensing@nypa.gov**
- 9/26/2017 – FERC Scoping Meeting
- 9/26/2017 – Environmental Site Review Tour
- 9/27/2017 – FERC Scoping Meeting

Relicensing Links

[New York Power Authority](#)

[Federal Energy Regulatory Commission](#)

[New York State Department of Environmental Conservation](#)



The New York Power Authority's (NYPA) Gregory B. Jarvis hydropower dam is located on the Hinckley Reservoir in Herkimer and Oneida Counties. The Federal Energy Regulatory Commission (FERC) issued NYPA a 40 year license in July 1982 to construct