

Yadkin Project Reservoir Operations Frequently Asked Questions

How does Cube Yadkin Generation, LLC (Cube Yadkin) manage the operation of the Project reservoirs (High Rock, Tuckertown, Narrows, and Falls)?

Cube Yadkin must operate the Project reservoirs at or above the normal minimum elevation as depicted on the four operating curves contained within the Project license (FERC, 2016). Generally, the High Rock Reservoir operating curve requires a minimum elevation of up to four feet below full pool during the period April through October, and a minimum elevation of up to 10 feet below full pool during the period November through March.

The Tuckertown Reservoir operating curve requires Cube Yadkin to operate the reservoir between the full pool reservoir elevation, and three-feet down, year-round. Cube Yadkin must operate Narrows Reservoir and Falls Reservoir within 5 feet and 4 feet of full pool year-round, respectively.

Lake level information and a fluctuation forecast are readily available on the Project website at <http://cubecarolinas.com/lake-levels/>.

Are there any exceptions to the reservoir operating curves?

Yes, Cube Yadkin operates the Project in accordance with the operating curves except as needed to maintain required minimum flows, or as provided under the Low Inflow Protocol (LIP) (http://cubecarolinas.com/wp-content/uploads/2017/03/LIP_Feb_2007.pdf) or the Hydro Project Maintenance and Emergency Protocol (HPMEP) (<http://cubecarolinas.com/wp-content/uploads/2017/03/HPMEP.pdf>).

What are the required minimum instream flows at the Project?

Except when operating under the LIP or HPMEP, Cube Yadkin must operate the Project to provide a daily average minimum flow from the Falls development per the following schedule:

June 1 – January 31	1,000 cubic feet second (cfs)
February 1 – May 15	2,000 cfs
May 16 – May 31	1,500 cfs

How does Cube Yadkin measure inflow into the Yadkin Project?

Cube Yadkin relies on the U.S. Geological Survey (USGS) Yadkin College (02116500) gage to measure flows into High Rock (https://waterdata.usgs.gov/nc/nwis/uv/?site_no=02116500&PARAMeter_cd=00065,00060).

How do inflows to High Rock Reservoir affect reservoir levels?

The ability to maintain Project reservoirs at higher levels is dependent on there being sufficient inflow. When inflow to the Project is less than the required minimum flow release from the Falls development, water stored in High Rock Reservoir and/or Narrows Reservoir is utilized to satisfy the minimum release requirement.

How does local weather impact inflow and reservoir elevations?

The watershed feeding the Yadkin Project lies largely to the northwest of High Rock Reservoir. Rainfall in this area has the greatest impact on inflows into the Project. Rainfall on or to the southeast of the High Rock Reservoir has little impact on inflows or elevations. Excessive heat and dry weather will also increase evaporation of water in the reservoirs.

Have additional questions? Please contact a Cube Yadkin representative at 704-422-5555 or chc@cubecarolinas.com.