

**PROGRESS ENERGY  
YADKIN-PEE DEE RIVER PROJECT  
WATER RESOURCES WORKING GROUP  
ISSUES EVALUATION TEMPLATE  
January 2004**

**Issue No. 9: Water Supply and Planning**

**1. Description of Issue**

Maintaining an adequate water supply for municipal and industrial uses, both within the lakes and downstream, was identified as a concern by state agencies as well as municipal governments during the May 8, 2003 meeting of the Water Resources Work Group. Comments were also received in response to the ICD issuance. A concern was also raised regarding Interbasin Transfers where water withdrawn from the Yadkin - Pee Dee River Basin is discharged outside the basin (or conversely) and how these transfers might affect the long term water supply in the Yadkin - Pee Dee River.

**2. Project Effects**

Progress Energy has worked closely with the municipal water authorities, which use the waters of Lake Tillery and Blewett Falls Lake to assure that Project operations are coordinated to minimize effects on water withdrawals. Downstream releases from the Project are determined by inflow into the Project, energy production needs, and continuous flow requirements. During the drought of 2002, Progress Energy worked closely with downstream water users to assure that there were sufficient releases to supplement the reduced natural flows so impacts from the drought to downstream water supplies would be minimized.

**3. Applicable Existing Information**

The North Carolina Division of Water Resources has recently completed a state Water Supply Plan, which includes information on existing water supply withdrawals and interbasin transfers (URL: [http://www.dwr.ehnr.state.nc.us/Water\\_Supply\\_Planning/NC\\_Water\\_supply\\_Plan/](http://www.dwr.ehnr.state.nc.us/Water_Supply_Planning/NC_Water_supply_Plan/)). The plan also includes information on and links to local water supply plans, which provide a comprehensive look at water supply needs, water usage, and availability for individual water suppliers. Point source and stormwater discharges are monitored through the North Carolina's National Pollutant Discharge Elimination System (NPDES) permitting program. Information on Yadkin – Pee Dee River NPDES discharges is included in the Yadkin – Pee Dee River Basinwide Water Quality Management Plan (NCDWQ 2002). The state of South Carolina has prepared a plan “South Carolina Water Plan, Goals and Guidelines for Management of the State’s Water Resources” (SCDNR 1998).

**4. Study Needs**

Progress Energy will develop a Project operations simulation model that will evaluate Project effects on river flows downstream of the Project. The model will have the ability to incorporate various input parameters including current and future water withdrawals for water supplies and inter-basin transfers (Water Resources Issue No.12).

**Resource Working Group Overlap (check if applicable)**

**Water Resources Issue # 12**

**Land Use and Recreation Issue # \_\_\_\_**

**Terrestrial Resources Issue # \_\_\_\_**

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