

Roanoke River Basin
Bi-State Commission

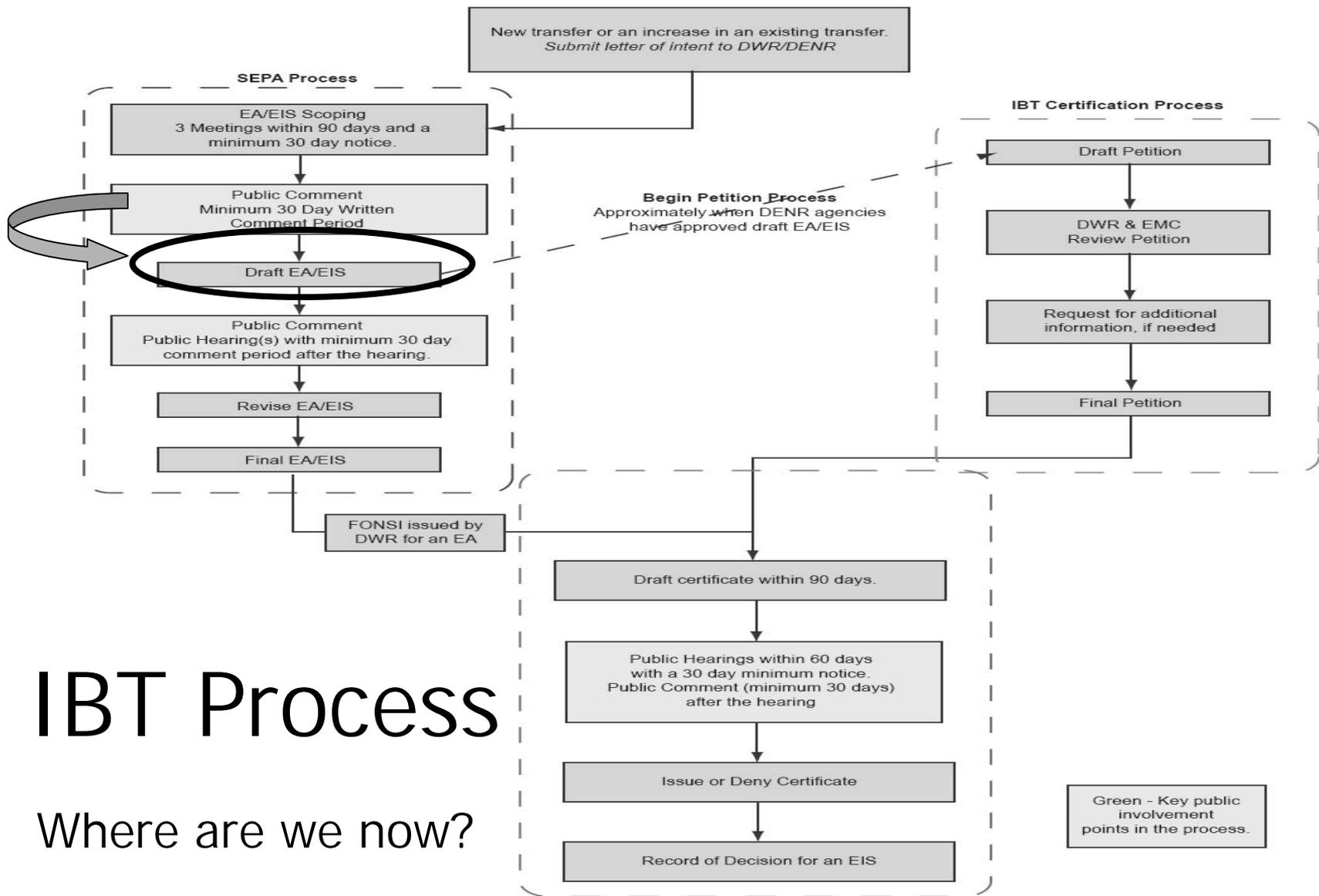
Kerr Lake Regional Water System Interbasin Transfer Update

Tom Fransen

North Carolina Division of Water Resources



EXHIBIT A



IBT Process

Where are we now?

NC Agency Comments Summary

- Comments received from
 - **Division of Water Resources**
 - **Wildlife Resources Commission**
 - **Natural Heritage Program**
 - **Division of Water Quality**
 - **Division of Parks and Recreation**
 - Raleigh Regional Office of DENR
 - Division of Environmental Health/Public Water Supply Section
 - Department of Cultural Resources
 - Intergovernmental Review

Public Comments Summary

- Comments received from
 - Virginia DEQ Division of Water
 - Virginia local government entities
 - North Carolina local government entities
 - Riverkeepers and River Basin Associations
 - Homeowners Associations
 - Concerned Citizens

Comments Summary – Background, Purpose and Need

- Clarify water storage allocation in Kerr Lake from USACE
- Present calculations and methodology for future demand projections
 - Concern expressed over needs of Partners compared to projected water sales
 - Concern over efficient water use, lack of water conservation rate structures

Comments Summary – Alternatives

- Each basin should manage its own water demands and needs
- Water Conservation should be a component of all alternatives
- Water Reuse and demand reduction strategies should be considered
- Return of wastewater should be considered
- Benefit – cost analysis needed

Comments Summary – Alternatives

- Suggested alternatives to consider:
 - Albemarle Sound/desalination as a source
 - Reservoir in Tar River Basin (Tar Riverkeeper against this option)
 - Offline storage
 - Returning of at least 80% of wastewater to avoid/minimize IBT
 - Falls Lake as a source to limit Neuse River Basin IBT
 - Include all projected IBTs in analysis (Raleigh, others)

Comments Summary – Alternatives

- Suggested alternatives to consider (from Tar-Pamlico Riverkeeper):
 - Increased IBT for current users but no new water sales
 - Increased IBT for current users only and Creedmoor
 - Increased Louisburg Tar River intake
 - Wastewater return
 - Conservation/demand reduction to reduce IBT via ordinances

Comments Summary – Direct Impacts to Roanoke Basin

- Concern over loss of potential economic opportunities in Roanoke River Basin
 - If less water supply is available for
 - industry and recruitment of new business
 - communities in the basin
 - If lake levels drop, impacting
 - recreation opportunities, safety
 - homeowners use of property, lowering property values, tax base
 - If hydropower generation decreases, impacting
 - lost income
 - less use of a renewable energy source

Comments Summary – Direct Impacts to Roanoke Basin

- Potential impacts to lake water levels
 - Change in release regimes of other reservoirs
 - Water levels during drought
 - What is safe yield of the system?
 - Could limit be placed on withdrawals during drought?
- Potential water quality impacts
 - Increased City of Henderson WWTP discharge
 - Any impact to upstream discharger requirements?

Comments Summary – Direct Impacts to Roanoke Basin

- Potential impacts to lower Roanoke River Basin
 - Fish migration and habitat
 - Rare aquatic species and natural communities
 - FERC license agreement impact, flow regime
- Noise impacts at recreational areas

Comments Summary – Direct Impacts to Receiving Basins

- Potential Direct Impacts associated with increased wastewater discharge into receiving basins streams
 - Expanded WWTPs necessary?
 - Assimilative capacity of streams
 - Many impaired streams [303(d) list, TMDLs]
 - Sensitive aquatic species impacts
- Potential Direct Impacts related to infrastructure construction

Comments Summary – Secondary and Cumulative Impacts

- Receiving Basins land use changes could impact:
 - Sensitive species, especially aquatic
 - Natural communities
- Increased noise impacts to recreational resources
- Introduction of aquatic invasive species such as Hydrilla

Comments Summary – Mitigation

- Water Conservation Programs
- Protect from land use changes
 - Riparian buffers
 - Floodplains
 - Open spaces
- Present adequate minimization using
 - Impervious surfaces limitations
 - Stormwater management
 - Sediment and erosion control

Comments Summary – Mitigation

- Address protected aquatic species using NC WRC “Specific Mitigation Measures for Water Containing Federally Listed Species”

Comments Summary – Other

- No transfer should be approved before water supply planning has been completed and approved by both North Carolina and Virginia
 - Role of Roanoke River Bi-state Commission
 - Section 216 study completion
- Does Virginia have a representative in the group making the final decision?
- Is the USACE involved in the process?
- Requests from lower Roanoke River reach communities and citizens to hold a meeting there during next round of public comment opportunity

Comments Summary – Other

- Future growth in source basin would be sacrificed for growth elsewhere
 - Needs and uses of those in the basin should trump those of other basins
 - Concern voiced over riparian water rights
 - Future economic growth
 - Potential for industry recruitment
 - Recreational interests
- Who will benefit from water sales? The Roanoke River Basin should receive compensation.

Comments Summary – Other

- Growth expectations alone should not be sufficient justification for an IBT
- For a receiving entity to state that the proposed transfer of water will provide access to a commodity to be sold in maximum quantity creates a clear conflict with the purpose and intent of the IBT law.
- Transfer would need to be monitored

Path Forward – next steps

- Coordination between the Applicant and the Division of Water Resources
 - Incorporate public and agency input into Draft EIS
 - Coordination of interstate-basinwide issues
 - Review Roanoke River Basin Model
 - Determination of Modeling Scenarios

Questions

Contact Information

Tom Fransen

919-715-0381

Tom.Fransen@ncmail.net

www.ncwater.org

Discussion

- Continued public outreach/update opportunities
- Interlocal agreements/contracts for water sales
- Recent Neuse River transfer discussions for Franklin County
- Limiting IBT based on storage allocation
 - Estimated IBT based on 30 year projection and ave/max day WTP production of 25/32 MGD
 - Kerr Lake allocation estimated to provide average 20 MGD