Projects Impacting Federal Power
Kansas City District

2015 Southwestern Federal Hydropower Meeting
Branson, MO

[redacted]

18 June 2015

U.S.ARMY

US Army Corps of Engineers
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Stockton Water Supply Reallocation

- Contract currently in place with City Utilities of Springfield (CUS) for 50,000 ac-ft of storage between elevations 830 and 867 msl (normal pool)
- Water Supply Reallocation Study Activities
  - Purpose of study is to evaluate potential use of Corps reservoirs in SW Missouri to meet future water supply demand
  - Tri-State Water Resources Coalition began leading effort in 2003
  - Team partners include Kansas City and Little Rock Districts, Missouri Department of Natural Resources (MDNR) , and Tri-State Water Coalition.
  - 2012 “Phase I” study assessed water demand for 16 Missouri counties (Six within Kansas City District and ten within Little Rock District)

Stockton Water Supply Reallocation

- Water Supply Reallocation Activities Cont'd
  - Follow-on 2013 Phase II Study assessed existing water supply resources and capacitiy being used in the six KCD counties, along with groundwater and other potential sources
  - Stockton Lake was evaluated as a source of water supply in the 2013 Study
- Additional information on these studies is available at http://www.tristatewater.org/

Stockton Water Supply Reallocation

- Kansas City District received $250K in FY14 to perform water reallocation feasibility study/analysis
- Contract awarded to A/E which included 4 tasks
  - Task 1: Develop PMP outlining schedule and resources
  - Task 2: Evaluate water demand, supply, and existing systems evaluation
  - Task 3: Perform water delivery system alternatives hydraulic analysis
  - Task 4: Perform water delivery system alternatives cost analysis
- Period of Performance: Aug 2014 – Aug 2015
- Study will be coordinated with Tri-State Resource Coalition's Activities

Stockton Water Supply Reallocation

- Kansas City District received another $250K in FY15 to continue water reallocation feasibility study/analysis activities
- Work will be performed by in-house labor and A/E contract services
- ResSim modeling data and documentation for storage reallocation for Pomme de Terre and Stockton Lakes was provided to the Hydropower Analysis Center (HAC) on 1 June 2015 for review and conducting hydropower impact analysis
- Hydropower impact analysis should be completed by December 2015
- Scope of work being finalized to modify the existing A/E contract

Stockton
Downstream Endangered Mussels

Pink Mucket

Spectaclecase

Stockton
Downstream Endangered Mussels

- Pink Mucket was listed as an endangered species in 1976 and the Spectaclecase in 2012
- Missouri Department of Conservation (MDC) conducted surveys downstream of the plant in 2009, 2010, and during power plant rehab
- Surveys were conducted under various release scenarios
- MDC has requested an opportunity to re-survey a couple of locations on the Sac River due to faulty equipment and unreliable data collected during previous surveys
- No survey report has been published to date

Questions?

Happy Go Fishing Day!!