

TENNESSEE VALLEY AUTHORITY WATTS BAR 2

Detailed Scoping Estimating and Planning Study (DSEP)

March 12, 2007



Agenda

- Introduction J. Bailey
- DSEP Study J. Bailey
- Regulatory Background J. McCarthy
- DSEP Regulatory Assumptions J. McCarthy
- WBN2 DSEP Study Philosophy R. Baron
- Closing J. Bailey

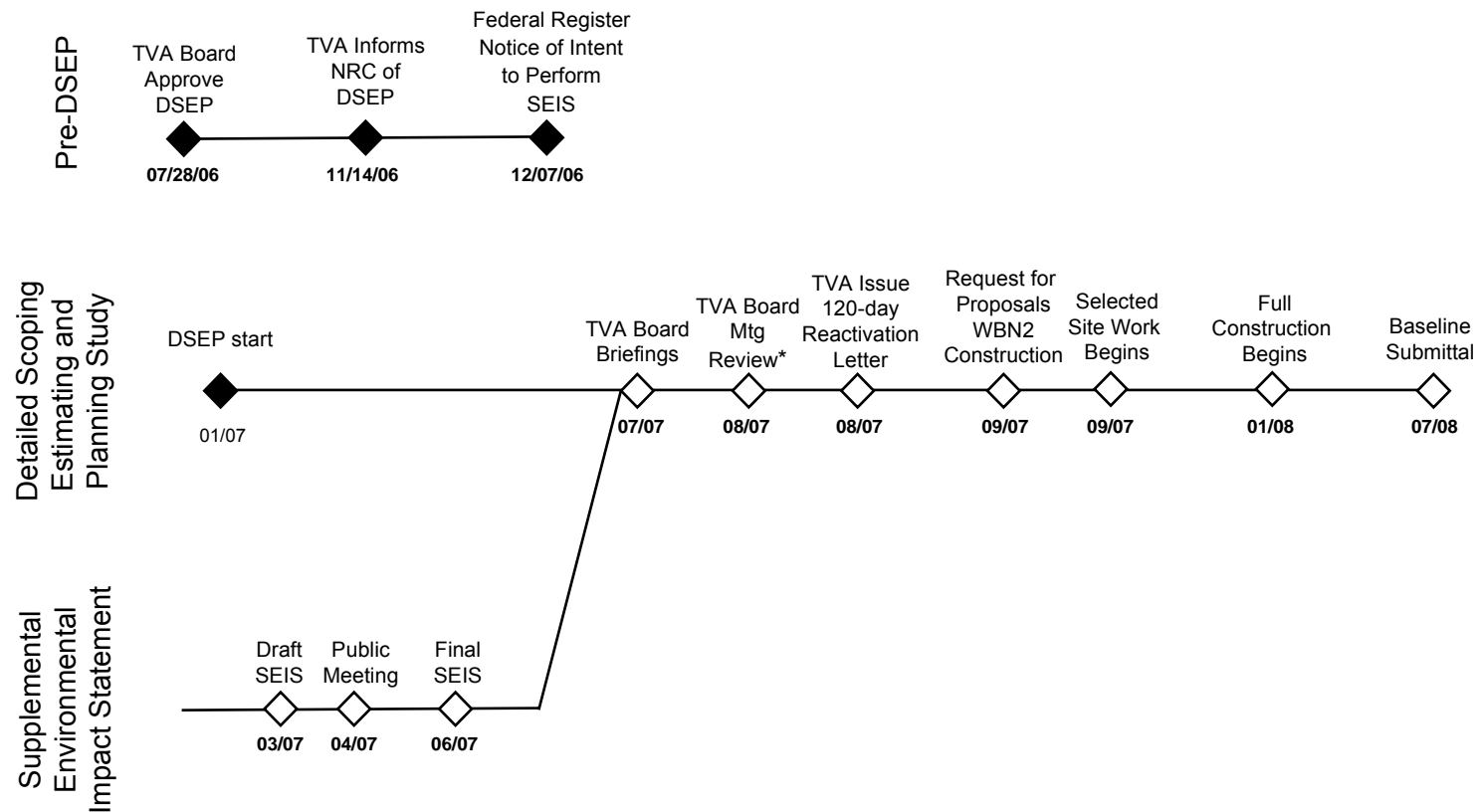


Detailed Scoping Estimating and Planning Study

- Purpose - Study feasibility of reactivating and completing construction of WBN2 without impact on safe operation of Unit 1
- Product - Detailed cost estimate and proposed construction and startup schedule for TVA Board of Directors consideration
 - August 2007 review
- Process - Similar approach used for TVA Board consideration of Browns Ferry Unit 1 Restart
- Early status of DSEP study
- Supplemental Environmental Impact Statement (being prepared) addressing impacts associated with construction and WBN2 operation

Detailed Scoping Estimating and Planning Study

WBN2 Milestone Schedule



* Remaining dates on timeline assume a TVA Board completion decision following the August meeting

Regulatory Background

- Application for Construction permits for WBN 1 and 2 requested May 14, 1971
- Construction permits for WBN 1 and 2 granted January 23, 1973
- Application for Operating Licenses for WBN 1 and 2 docketed October 4, 1976
- Operating License Safety Evaluation Report (SER) NUREG 0847 for WBN 1 and 2 issued June 1982
 - Design for WBN1 and WBN2 assessed based on Standard Review Plan NUREG-0800 dated July 1981
 - Supplements 1 – 4 to SER issued 1982-1985

Regulatory Background

- In September 1985 NRC issued a 10 CFR 50.54 (f) letter for all TVA nuclear plants and requested TVA to specify corrective actions
- WBN2 work stopped in 1985 -approximately 80% complete
- TVA submitted the WBN Nuclear Performance Plan in August 1989 covering both WBN units
 - Provided corrective actions needed to ensure the plant is designed and constructed in accordance with applicable regulatory requirements
- NRC Issued NUREG 1232, Volume 4 in 1989 endorsing the general approach of Nuclear Performance Plan
- Resolution of issues in licensing SER (NUREG-0847)
 - Supplements 5 – 20 to SER issued 1990 -1996



Transition to DSEP

- October 1995 - FSAR amendment 91 submitted for WBN1 and WBN2
- July 14, 2000 - TVA officially deferred WBN2
- July 28, 2006 - TVA Board of Directors authorized DSEP study
- November 14, 2006 - TVA informed NRC of DSEP study
- December 7, 2006 - Federal Register Notice Of Intent for Supplemental Environmental Impact Statement on Completion of WBN2
- December 31, 2010 – Current expiration date for WBN2 Construction permit

DSEP Regulatory Assumptions

- Complete construction and obtain Operating License under 10 CFR 50
 - Update existing WBN2 SER
- Criteria for resolution of WBN2 construction issues defined by WBN1 resolution
 - Clear and efficient path for NRC review of previously resolved and reviewed issues

Unit 2 DSEP Study Philosophy

- Maximize Unit Fidelity
 - Utilize WBN1 Design Criteria
 - Scope of WBN2 restart project to incorporate:
 - WBN1 Corrective Action Programs and Solutions
 - WBN1 Upgrades installed since startup
 - WBN1 five-year plan capital projects
 - Unit 2 will be operationally the same as Units 1 (*Same systems, equipment, operating procedures, Technical Specifications, Updated Final Safety Analysis Report*)

Closing

- Initial WBN2 project focused on:
 - Detailed cost estimate, proposed construction and startup schedule and assessment of key risks to support TVA Board of Directors consideration
- If WBN2 completion is approved by TVA Board, construction completion is focused on:
 - Operating License pursuant to 10 CFR 50
 - Safe continued operation of WBN1
 - Ensuring public health and safety
 - Maintaining a consistent, predictable, transparent process for completion
 - No adverse impacts on WBN1 licensing/design basis
 - Demonstrating acceptability of NRC previously reviewed technical issue resolutions