



Watts Bar Nuclear Plant Unit 2 Surveillance Requirement Extensions

August 4, 2016

Agenda

- **Opening Remarks**
- **Purpose of Request**
 - Request Extension of Selected Mode 5 18-Month Surveillance Requirement Frequencies for Watts Bar Nuclear Plant, Unit 2
- **Scope of Request**
 - Proposed Technical Specification Surveillance Requirements Extensions
 - Potential Technical Requirements Manual (TRM) Technical Surveillance Requirements Extension Request
 - Potential Fire Protection Report (FPR) Test and Inspection Requirements Extension Request
 - Potential Local Leak Rate Testing Appendix J Exemption Request
- **Submittal**
 - Submittal Structure
 - Evaluation Method
 - Precedents
- **Submittal Schedule**
- **Summary**



Opening Remarks

Purpose of Request

- **Watts Bar Nuclear Plant Unit 2 Startup Schedule**
- **Startup Testing and Surveillance Completion**

Scope of Request

- **Mode 5 18-Month Surveillance Requirements (SRs) Requesting Extension**
 - 72 Items
 - 37 Surveillance Requirements
 - Types of Surveillances
 - Trip Actuating Device Operational Test (TADOT)
 - Slave Relay Tests
 - Response Time Tests
 - Calibrations
 - Pumps/Valves/Trains Actuate
- **Potential Local Leak Rate Testing Extension Request**
 - 4 penetrations

Scope of Request

- **Other Surveillances Tests Being Evaluated**
 - **TRM Technical Surveillance Requirements (TSRs) Requesting Extensions**
 - 24 Items
 - 5 TSRs
 - **FPR Testing and Inspection Requirements (TIRs) Requesting Extensions**
 - 6 Items

Submittal

- **Submittal Structure**
 - Change Reflected in new License Condition(s)
 - Evaluations included as Separate Attachments
- **Evaluation Method(s)**
 - Generic Letter 91-04
 - Used previous Precedent

Proposed License Condition

2.C.(11) Surveillance Test Interval Relaxation

"In lieu of the specified frequencies contained in Appendix A, TVA may complete the surveillance requirements noted in Table 2.C.(11) during the fall 2017 refueling outage, but not later than October 17, 2017."

License Condition Table Example

Table 2.C.(11)		
Surveillance Requirement	Function (if Applicable)	Description
3.3.1.13 (TADOT)	15	Safety Injection (SI) Input from Engineered Safety Feature Actuation System (ESFAS)
3.3.2.5 (Slave Relay Test)	1.b	Safety Injection Automatic Actuation Logic and Actuation Relays
	2.b	Containment Spray Automatic Actuation Logic and Actuation Relays
	3.a(2)	Containment Isolation Phase A Isolation Automatic Actuation Logic and Actuation Relays
	3.b(2)	Containment Isolation Phase B Isolation Automatic Actuation Logic and Actuation Relays
	4.b	Steam Line Isolation Automatic Actuation Logic and Actuation Relays
	5.a	Turbine Trip and Feedwater Isolation Automatic Actuation Logic and Actuation Relays
	6.a	Auxiliary Feedwater Automatic Actuation Logic and Actuation Relays
	7.a	Automatic Switchover to Containment Sump Automatic Actuation Logic and Actuation Relays

Typical Evaluation Format

- SR [x.x.x.x], Function x.x.x, [TITLE]
- Surveillance Interval Extension
- Extension Request
- Description
- Background
- Testing & Reliability of Affected Components
- Conclusion

Submittal

- **Precedent**

- **2014-02-10 Ft Calhoun LAR ML14041A408**
 - RPS & ESFAS Extensions
 - TADOT
 - Actuation Logic test
 - Diesel Generators
- **2008-12-22 Browns Ferry Nuclear Plant LAR (ML083650109)**
 - RPS & ESFAS Extensions
- **2008-12-08 River Bend LAR (ML083460043)**
 - TADOT
 - Actuation Logic Test
- **2006-02-06 Kewaunee LAR (ML060450487)**
 - RPS & ESFAS Extensions
 - License Condition
 - Diesel Generators
- **1999-12-16 Clinton LAR (ML993560163)**
 - RPS & ESFAS Extensions
 - Diesel Generators
 - Pumps/Valves Actuate

Submittal Schedule

- **Anticipated Submittal Date**
 - August 26, 2016
 - NRC Acceptance
- **Meetings/Teleconferences With NRC Staff**
 - Beginning of October
- **Requested Approval Date and Reason**
 - February 15, 2017
 - First SR Expires February 24, 2017
 - Reactor Coolant System Hot Leg Temperature Instrument Calibration (SR 3.3.4.3, Function 4.a)



Summary

- **Purpose of Request**
- **Requested Extensions**
- **Submittal Makeup**
- **Schedule**



Closing Remarks



Questions?
