

TRANSMITTAL OF MEETING HANDOUT MATERIALS FOR IMMEDIATE PLACEMENT IN THE PUBLIC DOMAIN

This form is to be filled out (typed or hand-printed) by the person who announced the meeting (i.e., the person who issued the meeting notice). The completed form, and the attached copy of meeting handout materials, will be sent to the Document Control Desk on the same day of the meeting; under no circumstances will this be done later than the working day after the meeting.

Do not include proprietary materials.

DATE OF MEETING

03/07/2002

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)

50-269, 50-270, 50-287

Plant/Facility Name

OCONEE NUCLEAR STATION, UNITS 1, 2 AND 3

TAC Number(s) (if available)

Reference Meeting Notice

FEBRUARY 14, 2002

Purpose of Meeting
(copy from meeting notice)

TO DISCUSS PLANS TO IMPLEMENT A DIGITAL

REACTOR PROTECTION SYSTEM AT OCONEE

NUCLEAR STATION, UNITS 1, 2 AND 3

NAME OF PERSON WHO ISSUED MEETING NOTICE

L. N. OLSHAN

TITLE

PROJECT MANAGER

OFFICE

NRR

DIVISION

DLPM

BRANCH

PD II-1

Distribution of this form and attachments:

Docket File/Central File
PUBLIC

DFa



Oconee Nuclear Station

RPS and ESFAS Upgrade

March 7, 2002

- ❖ Introductions (5 min)
- ❖ Purpose of Meeting & Expected Outcome (5 min)
- ❖ Project Overview (10 min)
- ❖ Licensing Approach (20 min)
- ❖ Safety Analysis Approach (20 min)
- ❖ Schedule (10 min)
- ❖ Discussion/Q&A (45 min)
- ❖ Closure (5 min)

❖ Project

- Digital Upgrade to RPS & ES with FANP TXS Platform
- First implementation: Spring 2004

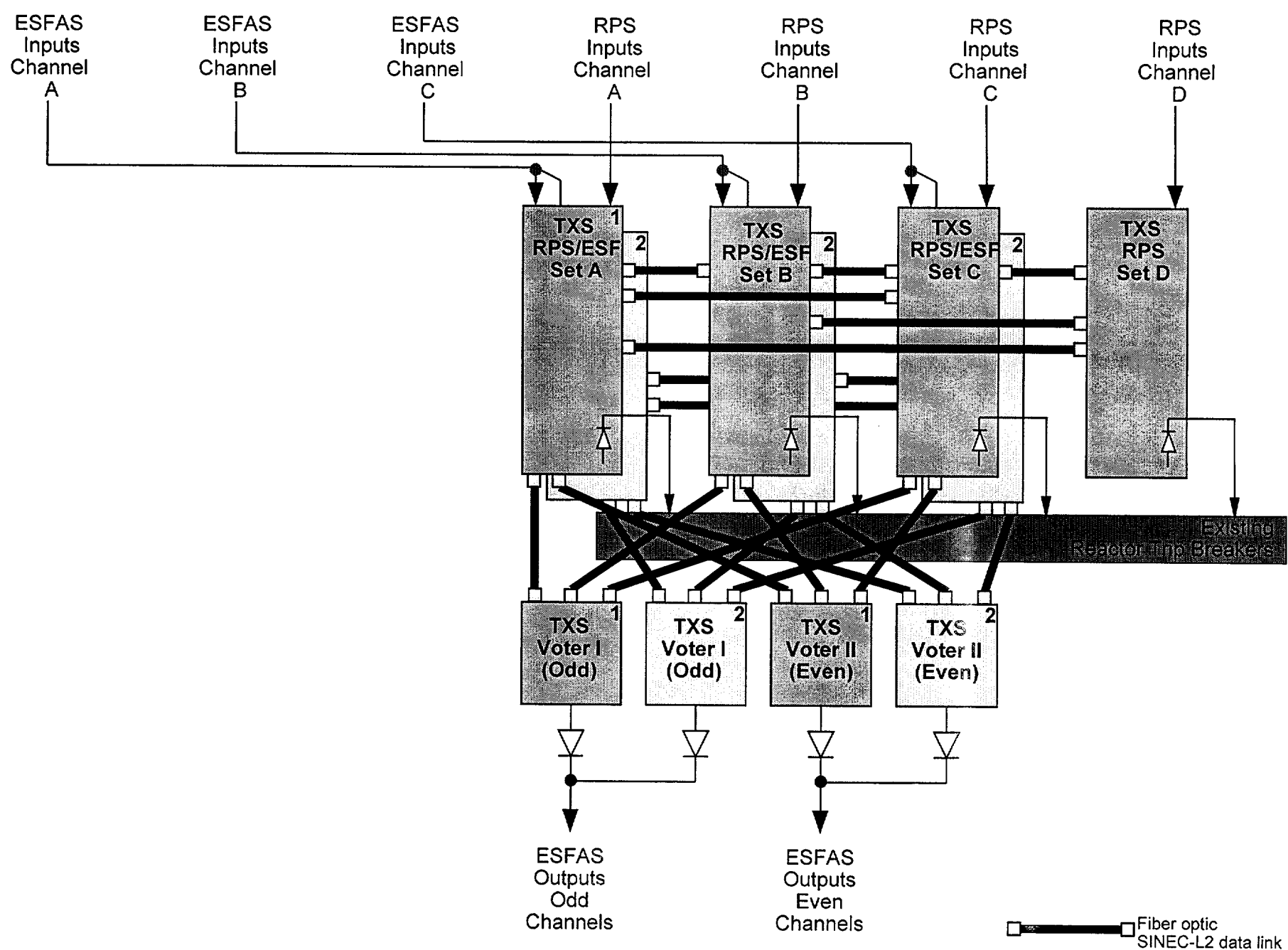
❖ Meeting Purpose

- Communicate Project Outline, Licensing & Analysis Approach

❖ Expected Outcome

- Buy-in among all stakeholders
 - ◆ USNRC
 - ◆ Duke Power Project Team

- ❖ RPS Upgrade
- ❖ ESFAS Upgrade
- ❖ License Amendment Request
 - UFSAR Changes
 - Tech Spec Changes - Longer Surveillance Intervals
 - D3 Analysis
 - Associated Documentation



❖ Licensing Amendment Request (LAR)

- FANP TXS Platform - Approved May 5, 2000
- Follow TR-102348 Rev. 1 Guidance
- Concentrate on Application - Not Platform
- Plant Specific Action Items
- UFSAR Changes + Tech Spec Changes
- D³ Analysis per BTP-19, with Safety Analyses
- Associated Application-Specific Documentation
- LAR Package

Background

- ❖ Analyze UFSAR Transients & Accidents
 - Demonstrate Acceptability of a SWCMF in RPS&ES
- ❖ SWCMF is Beyond Design Basis
 - Analytical Approach Uses Less Than Traditional Conservatism
- ❖ Next 5 Slides Detail the Analytical Approach
- ❖ Staff Concurrence is Critical to Project Schedule

BTP-19 Expectations

- ❖ Assume No Automatic Actuation of RPS/ESFAS
- ❖ Realistic Demonstration of Unit Capability to Accommodate SWCMF with No Unacceptable Consequences
- ❖ Acceptance Criteria are Discussed
- ❖ Oconee Approach is Consistent with Intent of BTP-19

Oconee D3 Methodology

- ❖ Duke Will Use New Replacement SG T/H Analysis Methodologies that are Already Planned for Submittal in Near Future
 - Extensions of Existing NRC-Approved Methodologies Currently in UFSAR
 - Codes: RETRAN-3D, VIPRE-01, RELAP5/MOD2-B&W, GOTHIC, SIMULATE, LOCADOSE, ARCON96
- ❖ LBLOCA Excluded Based on LBB
- ❖ One-Time Analysis (will not be revised in the future)

Methodology Assumptions

- ❖ Typical Conservative Initial Conditions
- ❖ No LOOP
- ❖ No Single Failures
- ❖ Control Systems in Automatic
- ❖ Realistic Core Power Distribution
- ❖ Realistic Operator Actions and Times
- ❖ Credit for Existing DSS for Hi-Hi RCS Pressure
- ❖ Pre-Existing SG Tube Leakage at Administrative Limit

Acceptance Criteria

- ❖ Offsite Dose Limits Based on Oconee Licensing Basis
(Unless BTP-19 Allows Higher)
- ❖ RCS Overpressure Limit is ASME Service Level C
(Same as ATWS)
- ❖ Rx Bldg. Overpressure Limit Based on Realistic
Failure

UFSAR Transients & Accidents

- ❖ Bank Withdrawal @ Zero Power
- ❖ Bank Withdrawal @ Full Power
- ❖ Boron Dilution @ Full Power
- ❖ Loss of Coolant Flow
- ❖ Locked Rotor
- ❖ Dropped Rod
- ❖ Turbine Trip
- ❖ Steam Generator Tube Rupture
- ❖ Rod Ejection
- ❖ Large Steam Line Break
- ❖ SBLOCA (limiting FP PCT case)
- ❖ Small Steam Line Break
- ❖ Loss of MFW
- ❖ LOOP
- ❖ FW Line Break



Schedule

		Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04
Activity	Licensing Plan																													
	Initial NRC Mtg.																													
	Initial Application Design																													
	Draft D3 Analysis																													
	Final D3 Analysis																													
	Chapter 15 Work																													
	Initial 50.59/50.92 Evaluation																													
	Project Update Mtg. @ NRC																													
	Final 50.59/50.92 Evaluation																													
	LAR Package																													
	Submit LAR + NRC Mtg.																													
	NRC Review																													
	ONS Receives SER																													
	Implementation																													

- ❖ LAR Submittal - March 2003
- ❖ Proposed Meetings
 - Initial Mtg. - March 2002
 - Project Update Mtg. - September 2002
 - Post-Submittal Presentation - March 2003
 - RAI's & Interactions - As Required
- ❖ SER - November 2003

Discussion and Questions & Answers

❖ Check for Understanding & Agreement:

- Project Scope
- Licensing Scope & Approach
- Schedule