

MSS ANALYSIS SUPPORT PROGRAM

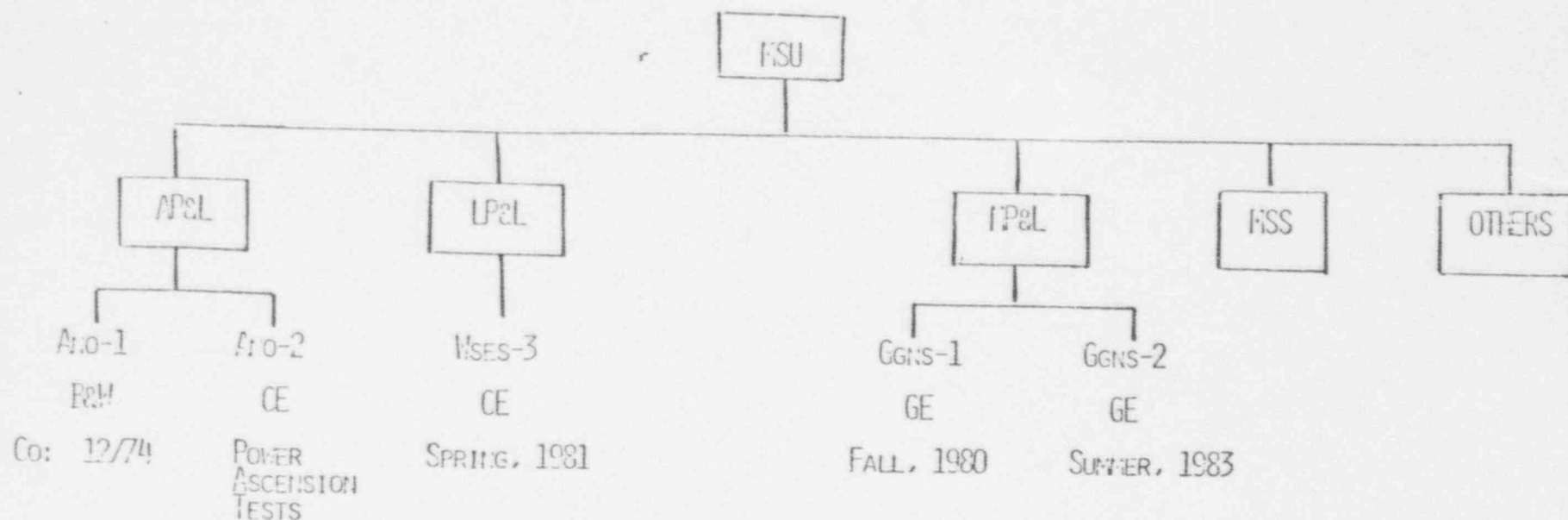
FOR ANO - 2 AND WSES - 3

PRESENTATION TO USNRC

T. W. SCHNATZ

AUGUST 22, 1979

90001017



# FSU ORGANIZATION

90001018

GENERAL SCOPE OF ACTIVITIES

FUEL MANAGEMENT STUDIES

CYCLE DESIGN

RELOAD LICENSING SUBMITTALS

PHYSICS DATA GENERATION

CORE MONITORING PROGRAM UPDATES

CORE FOLLOW

90001019

PROGRAM OBJECTIVES

AWO-2 CYCLE 3 FALL 1981

WSES-3 CYCLE 2 SPRING 1983

PHYSICS DATA

STARTUP TEST DATA

REACTOR OPERATING DATA

CORE MONITORING

CECOR UPDATES

COLSS UPDATES

REACTOR PROTECTION

CPC/CEAC UPDATES

90001020

# TECHNOLOGICAL EXPERTISE

## PHYSICS:

ARMP SYSTEM

SIMULATE

## THERMAL - HYDRAULICS

COBRA III, IV

CHF CORRELATION

W-3

CE-1

B&W-2

EPRI

TOODEE - 2

90001021

## TRANSIENT ANALYSIS

RETRAN

## FUEL ROD PERFORMANCE

COMETHE

COLSS/CPC UPDATES

- COLSS/CPC UNCERTAINTY ANALYSIS METHODOLOGY
- CPC Disk PRODUCTION FACILITY
- CPC UPDATE TEST FACILITY

90001022

MODEL QUALIFICATION REPORTS

- . PHYSICS MODEL QUALIFICATION
- . RELOAD SAFETY EVALUATION (RSE) METHODOLOGY
- . RETRAN GENERIC TOPICAL
- . RETRAN MODEL QUALIFICATION
- . THERMAL HYDRAULICS MODEL QUALIFICATION
- . CPC UPDATE METHODOLOGY

90001023

## PHYSICS MODEL QUALIFICATION REPORT

- . TECHNICAL REVIEW OF MODEL
- . MEASUREMENT QUALIFICATION
- . STATISTICAL ANALYSIS OF UNCERTAINTIES
- . DETERMINATION OF RELIABILITY FACTORS
- . DATA BASE
  - ANO-1 CYCLES 1, 2, & 3
  - ANO-2 EOC 1

90001024



RELOAD SAFETY EVALUATION  
METHODOLOGY REPORT

- . DESCRIPTION OF EACH ACCIDENT
- . ID ACCIDENT SPECIFIC PERTINENT PHYSICS PARAMETERS
- . PHYSICS PARAMETER CALCULATIONAL METHODS
- . PHYSICS PARAMETER ACCEPTANCE CRITERIA

90001025

# TRANSIENT ANALYSIS REPORTS

PETRAM GENERIC TOPICAL -

UTILITY GROUP SUBMITTAL

EPRI DOCUMENTATION

SEPTEMBER, 1979

PETRAM MODEL QUALIFICATION -

EPRI N10-2 MODEL

CESEC VERIFICATION TESTS

SELECTED SAR TRANSIENTS

90001026

THERMAL - HYDRAULIC MODEL  
QUALIFICATION REPORT

- DESCRIPTION OF AHO-2 COBRA MODEL
- BENCHMARK COMPARISON WITH VENDOR CALCULATIONS

90001027

# CPC UPDATE METHODOLOGY REPORT

DESCRIBE CPC UPDATE PROCESS

DATA BASE UPDATE

PROGRAM UPDATE (MINIMAL)

T/H ALGORITHM UNCERTAINTY

POWER DISTRIBUTION UNCERTAINTY

90001028

## CHECK POINTS AND MILESTONES

8/79	NOTIFY NRC OF OVERALL PLAN
9/79	PRELIMINARY DECISION TO PROCEED
9/79	SUBMIT RETRAN GENERIC TOPICAL
12/79	FINAL DECISION TO PROCEED
12/79	SUBMIT PHYSICS MODEL REPORT
5/80	SUBMIT THERMAL-HYDRAULIC MODEL REPORT
5/80	SUBMIT RETRAN MODEL REPORT
6/80	SUBMIT CPC UPDATE METHODOLOGY REPORT
7/80	SUBMIT RSE METHODOLOGY REPORT
8/80	INITIATE CYCLE 3 PRODUCTION WORK (RESPOND TO IIRC QUESTIONS)
1/81	RECEIVE IIRC APPROVALS ON MISS MODEL/METHODOLOGY REPORTS
6/81	SUBMIT PRELIMINARY RSE CYCLE 3
8/81	SUBMIT FINAL RSE CYCLE 3
11/81	STARTUP CYCLE 3

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