

INDEPENDENT DESIGN REVIEW
PROGRAM
FOR
WNP-1/4 & WNP-3/5

SUPPLY SYSTEM MEETING
WITH NRC

AUGUST 20, 1981
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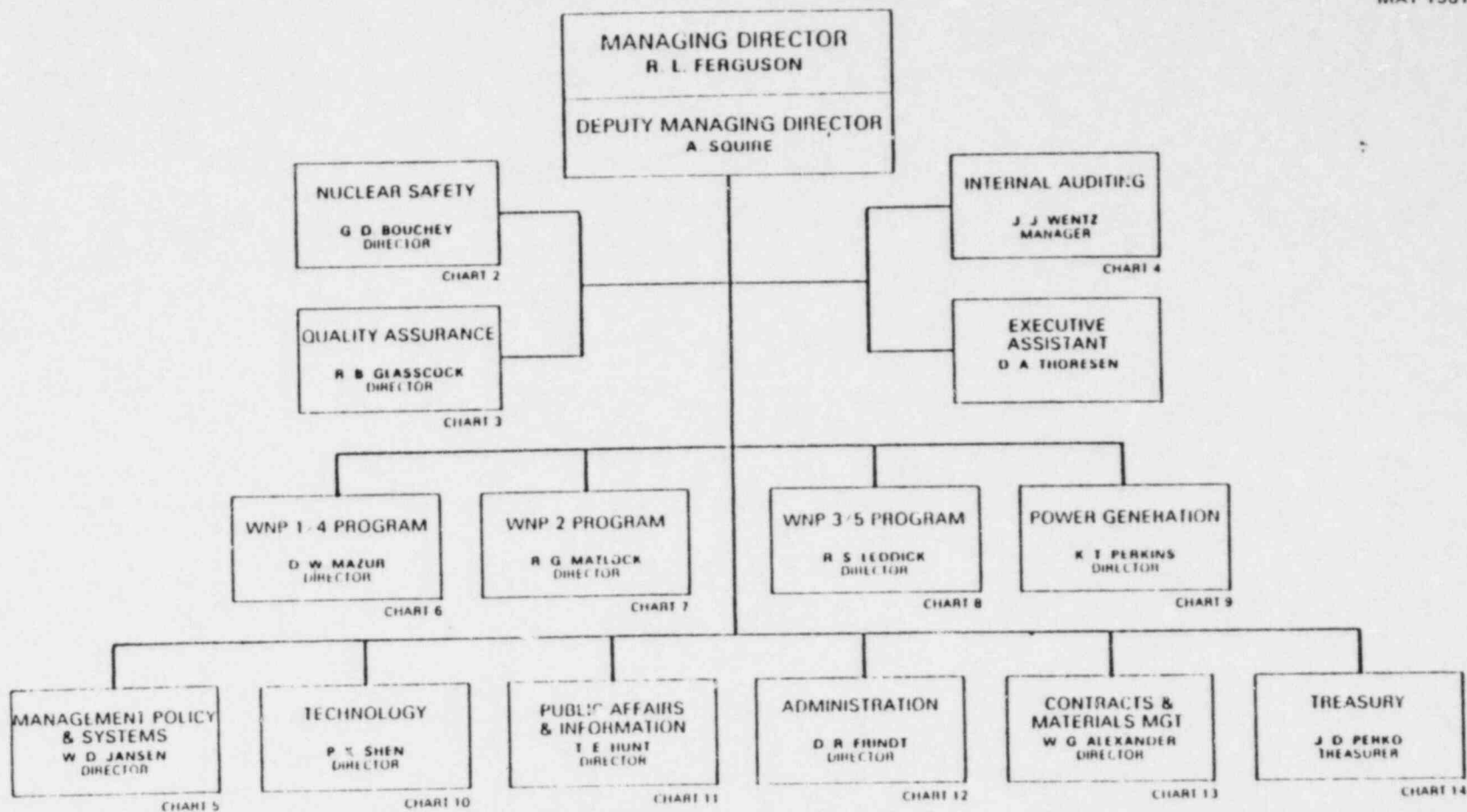
PROPOSED IDR PROGRAM

MEETING AGENDA

- o INTRODUCTIONS & SUPPLY SYSTEM ORGANIZATION S. L. ADDITON
- o PROPOSED IDR PROGRAM FOR WNP-1/4 & WNP-3/5 PROJECTS J. W. SALE
 - PURPOSE, OBJECTIVES, AND SCOPE OF IDR PROGRAM
 - PROPOSED IDR PROCESS, ORGANIZATIONS INVOLVED, & DOCUMENTATION
 - POSSIBLE SYSTEMS
 - PROPOSED SCHEDULE FOR PROTOTYPE IDRs
- o REQUESTED NRC COMMITMENTS S. L. ADDITON
- o SUPPLY SYSTEM CONCERNS ON IDR PROGRAM S. L. ADDITON
- o DISCUSSION
- o STATEMENTS OF UNDERSTANDING (NRC & SUPPLY SYSTEM COMMITMENTS)

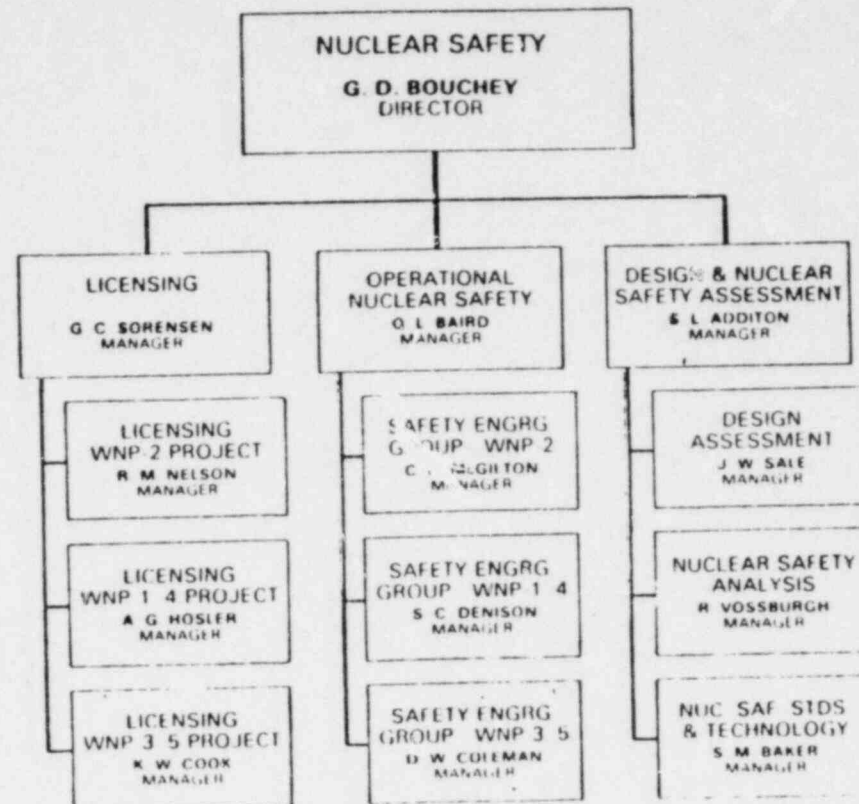
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CHART 1
MAY 1981



WASHINGTON PUBLIC POWER SUPPLY SYSTEM

CHART 2
MAY 1981



PROPOSED IDR PROGRAM

OBJECTIVES

UTILITY OWNERSHIP OF THE DESIGN PROCESS

- O ASSURE THAT THE DESIGN CONTAINS FEATURES THAT WILL PERMIT SAFE PLANT OPERATION
- O ASSURE THAT DESIGNS SATISFY REGULATORY REQUIREMENTS AND ENGINEERING CRITERIA
- O IMPROVE PLANT OPERATIONAL RELIABILITY AND AVAILABILITY

Issue Resolution

- O ADDRESS OPEN ITEMS EARLY IN THE REVIEW PROCESS
- O PUBLICLY DOCUMENT ISSUE RESOLUTION AND DESIGN REVIEW RESULTS

PROPOSED IDR PROGRAM

OBJECTIVES

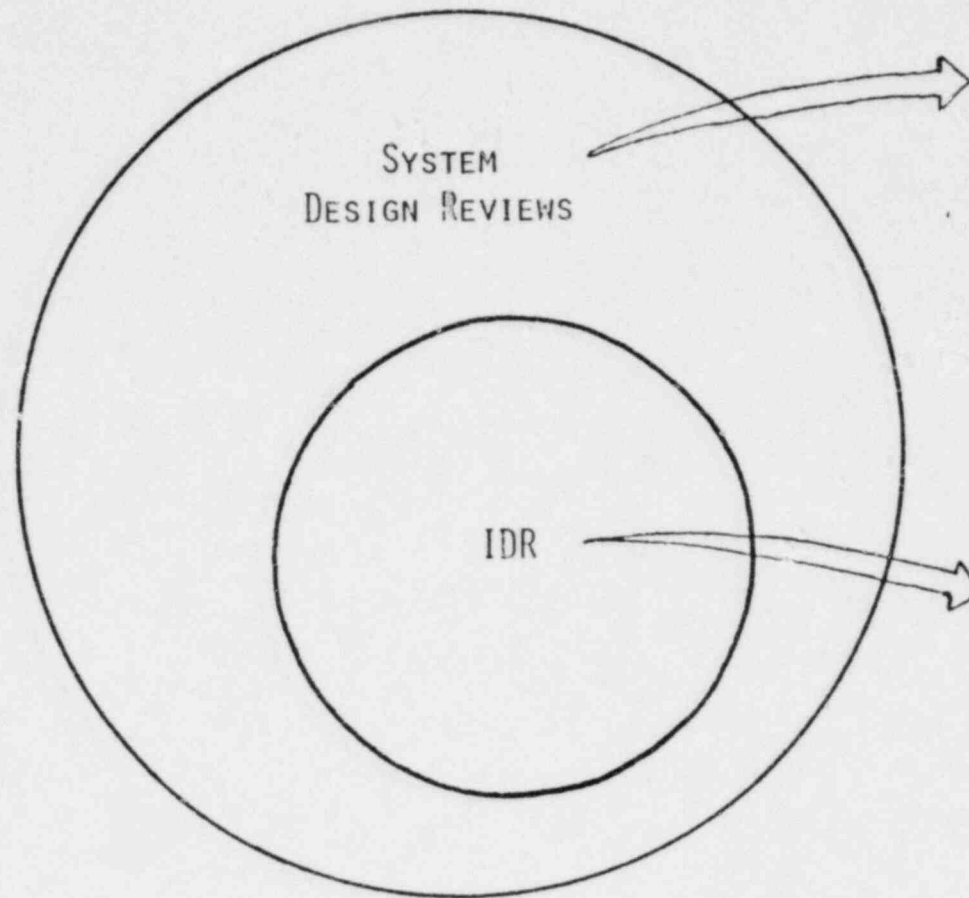
SCHEDULE CONTROL

- O ESTABLISH AN EARLIER LICENSING REVIEW SCHEDULE
- O EARLY IDENTIFICATION OF LICENSING IMPACTS ON DESIGN AND CONSTRUCTION

RESOURCE UTILIZATION

- O IMPROVE USE OF AVAILABLE TECHNICAL RESOURCES
- O BROADEN THE DESIGN REVIEW PERSPECTIVE
- O REDUCE DEMAND ON NRC TECHNICAL REVIEW

PROPOSED IDR PROGRAM



SYSTEM DESIGN REVIEWS

- o IN-DEPTH, MULTI-DISCIPLINE REVIEW
- o ALL OWNER REQUIREMENTS
- o INDUSTRY CODES & STANDARDS
- o FEDERAL & STATE REGULATIONS
- o MAJOR PLANT SYSTEMS

INDEPENDENT DESIGN REVIEW

- o IN-DEPTH, MULTI-DISCIPLINE REVIEW
- o FEDERAL & STATE REGULATIONS
- o MAJOR SYSTEMS THAT AFFECT PLANT SAFETY AND/OR LICENSABILITY
- o NRC PARTICIPATION

PROPOSED IDR PROGRAM

REVIEW SCOPE

EACH AGENDA WILL BE ESTABLISHED IN COOPERATION WITH THE NRC STAFF
AND WILL INCLUDE:

- o SYSTEM OVERVIEW
 - LAYOUT
 - OPERATION
- o REGULATORY CRITERIA
 - STANDARD REVIEW PLANS
 - REGULATORY GUIDES
 - GENERIC LETTERS
 - I&E BULLETINS
- o SYSTEM INTERFACES
- o TEST PROGRAM

PROPOSED IDR PROGRAM

ORGANIZATIONS INVOLVED

0 SUPPLY SYSTEM

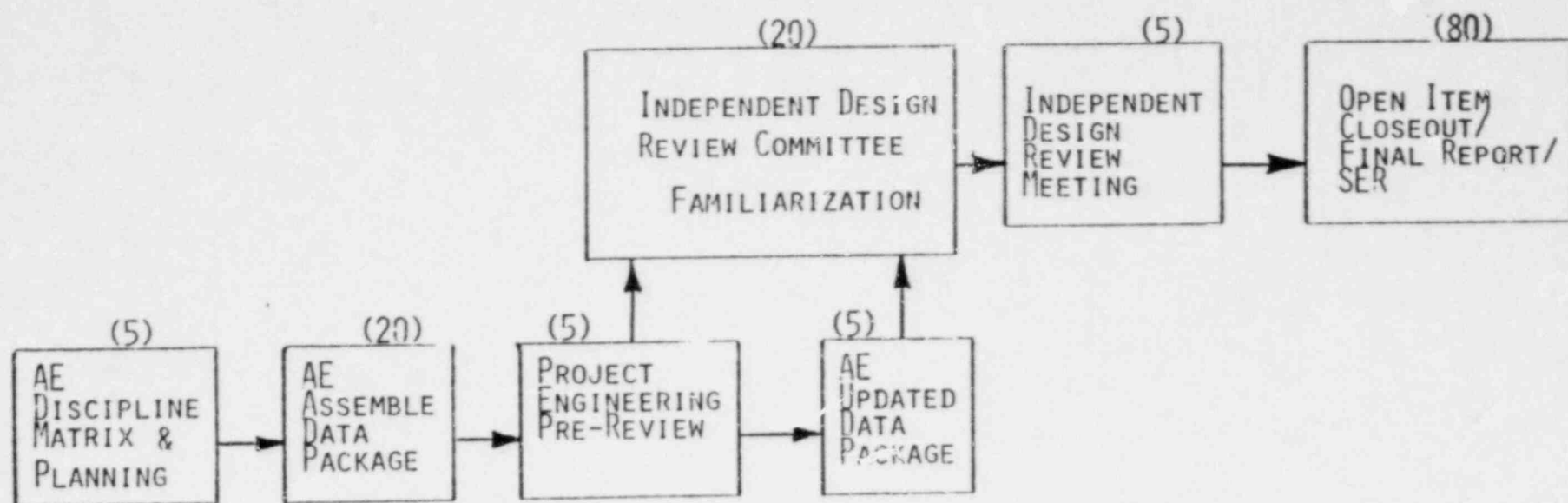
0 NRC

0 AE

0 NSSS VENDOR

0 OUTSIDE CONSULTANTS

PROPOSED IDR PROGRAM

REVIEW PROCFS

() = ESTIMATED WORK DAYS

PROPOSED IDR PROGRAM

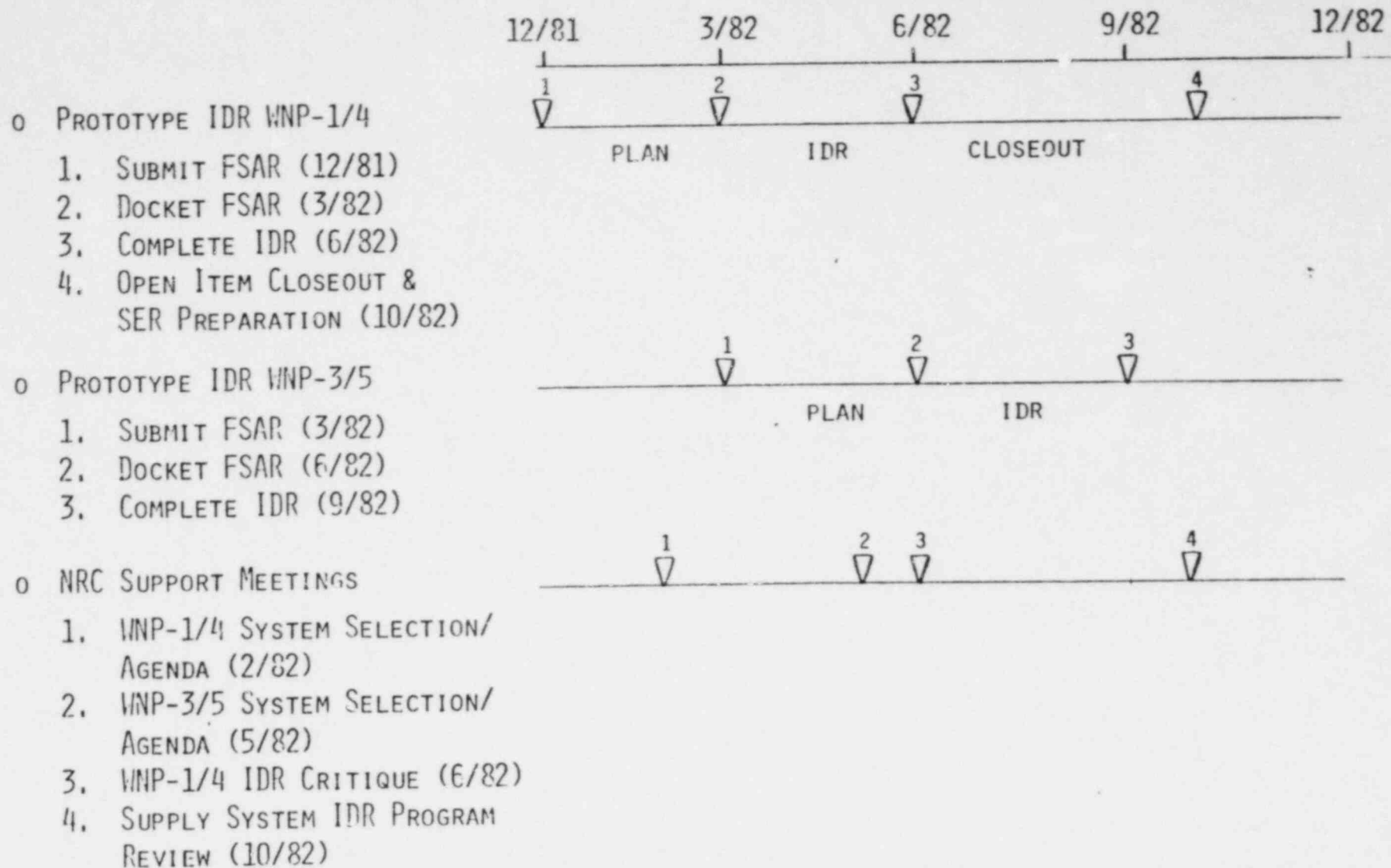
IDR SELECTION CRITERIA

INITIATE SYSTEM SELECTION IN PARALLEL WITH FSAR ACCEPTANCE REVIEW

SELECT SYSTEMS:

- O FOR WHICH NRC REVIEW IS HAMPERED DUE TO INSUFFICIENT MANPOWER.
- O WHOSE LICENSABILITY HAS BEEN QUESTIONED BY THE NRC.
- O WHICH HAVE USED A NEW OR INNOVATIVE APPROACH.
- O NOT REVIEWED AS GENERIC PLANT DESIGN.
- O WHERE UNCERTAINTIES MAY INVOLVE SIGNIFICANT COST OR SCHEDULE IMPACTS.

TENTATIVE SCHEDULE FOR PROTOTYPE IDR PROGRAM



PROPOSED IDR PROGRAM

REQUESTED NRC COMMITMENTS

- o NRC COMMITMENT TO SUPPORT THE REVIEW TEAM WITH MANPOWER AND TO PARTICIPATE IN THE EFFORT UNTIL ISSUES ASSOCIATED WITH THE SYSTEM UNDER REVIEW ARE ADEQUATELY RESOLVED TO ALLOW FOR ISSUANCE OF AN SER SECTION.
- o APPLICANT WILL NOT BE SUBJECTED TO AN NRC REVIEW OF A SELECTED SYSTEM OUTSIDE THE EFFORT OF THE REVIEW TEAM, I.E., THERE WILL BE ONLY ONE NRC REVIEW OF A SELECTED SYSTEM AND THAT WILL BE THE NRC/APPLICANT TEAM.
- o AT THE CONCLUSION OF THE REVIEW TEAM'S EFFORT, THE APPLICANT WILL DOCUMENT IT'S COMMITMENT TO ANY AGREED TO CHANGE AND THE NRC WILL DOCUMENT THEIR CONCLUSION THAT ISSUES FOR THE SYSTEM UNDER REVIEW ARE SATISFACTORILY RESOLVED TO ALLOW ISSUANCE OF AN SER SECTION.

PROPOSED IDR PROGRAM

CONCERNS FROM A SUPPLY SYSTEM PERSPECTIVE

- o Is THE IDR PROCESS COST EFFECTIVE?
- o Is THERE A DIRECT LICENSING BENEFIT?
- o ARE THERE BETTER WAYS TO ACCELERATE LICENSING?
- o WILL THE IDR CLOSE-OUT A SYSTEM REVIEW?
- o WILL AN SER SECTION BE GENERATED FROM THE IDR?
- o DOES NRC SUPPORT EXIST AT ALL LEVELS?
- o HOW WILL REVISIONS TO THE SRP AFFECT THE IDR PROCESS AND COMPLETED REVIEWS?
- o ASSIGNMENT OF SENIOR NRC REVIEWERS.
- o APS AND MIDLAND EXPERIENCES

PROPOSED IDR PROGRAM

CANDIDATES FOR WNP-1/4 PROTOTYPE IDR SYSTEMS

<u>SYSTEM</u>	<u>BASIS</u>
0 ESFAS/RPS/ECI/SCI SYSTEMS (FSAR CHAPTER 7)	POSSIBLE NRC MANPOWER PROBLEMS
0 FIRE PROTECTION SYSTEM	DESIGN UNCERTAINTIES MAY INVOLVE SIGNIFICANT COST OR SCHEDULE IMPACTS
0 ON-SITE IE POWER SYSTEM AC AND DC	POSSIBLE NRC MANPOWER PROBLEMS
0 AUXILIARY FEEDWATER SYSTEM	LICENSING QUESTIONS

PROPOSED IDR PROGRAM

CANDIDATES FOR
WNP-3/5 PROTOTYPE IDR SYSTEMS

<u>SYSTEM</u>	<u>BASIS</u>
0 EMERGENCY POWER SUPPLY	POSSIBLE NRC MANPOWER PROBLEMS
0 FIRE PROTECTION	DESIGN UNCERTAINTIES MAY INVOLVE SIGNIFICANT COST OR SCHEDULE IMPACTS
0 AUXILIARY FEEDWATER SYSTEM	POSSIBLE LICENSING QUESTIONS
0 DRY COOLING TOWER	NEW, INNOVATIVE DESIGN