

OCT 06 1988

MEMORANDUM FOR: Leland C. Rouse, Chief
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety, NMSS

FROM: John P. Roberts, Section Leader
Irradiated Fuel Section
Fuel Cycle Safety Branch

SUBJECT: MEETING WITH CAROLINA POWER AND LIGHT COMPANY (CP&L)

DATE/TIME: October 4, 1988; 10:00 a.m.

LOCATION: Room 6-B-13, One White Flint North Building, Rockville, MD

ATTENDEES: See enclosure 1

PURPOSE: To discuss CP&L's planned submittal of a license application for dry spent fuel storage under 10 CFR Part 72 at its Brunswick Steam Electric Plant site.

DISCUSSION:

This was an introductory meeting. CP&L described its management team for the dry storage action (see enclosure 2). Then CP&L outlined details of the proposed action (see enclosure 3). CP&L plans to apply for storage of 304 pressurized water reactor (PWR) spent fuel assemblies. These assemblies were originally irradiated at CP&L's H. B. Robinson Steam Electric Plant, Unit 2 (HBR2), and subsequently transhipped to Brunswick for storage in its reactor pool. The PWR assemblies would be stored in 44 modules in a NUTECH NUHOMS-7 type concrete module and stainless steel canister system like that constructed at HBR2. CP&L plans to submit its license application on January 6, 1989, and seeks NRC license issuance by March 1990.

Applicable safeguards requirements were outlined by NRC staff in response to CP&L questions.

One significant point regarding the Brunswick site, which will be considered in the safety review, is that it is not a flood-free site for any of the four potential storage sites being considered (see enclosure 3, Figure A-2, "ISFSI Candidate Sites").

Original Signed By:

John P. Roberts, Section Leader
Irradiated Fuel Section
Fuel Cycle Safety Branch

BB10120165 BB1006
PDR ADOCK 05000324
PNU

Enclosures:

- 1) Attendance List
- 2) Project Management Matrix Team
- 3) Project Description

cc: Service List

DISTRIBUTION: w/ encls.

Docket No. 50-324 & 50-325 PDR & LPDR NRC File Center IMIF R/F NMSS R/F
IMSD R/F JPROberts FLBrown LCRouse ETourigny, NRR Resident Inspector
PAnderson SBuckley, NRR

OFC : IMIF : IMIF
NAME: JPROberts:lg : FLBrown
DATE: 10/6/88 : 10/6/88

OCT 06 1988

OCTOBER 4, 1988, MEETING WITH
CAROLINA POWER AND LIGHT COMPANY REGARDING
PART 72 LICENSE APPLICATION FOR BRUNSWICK SITE

John P. Roberts	NRC/NMSS
ED Tourigny	NRC/NRR
Eart C. Buckley	NRC/NRR
Jan Kozyra	CP&L
William Murray	CP&L
Barbara Baranski	CP&L
Jim Hammelman	SAIC
Steve Ruffin	NRC/NMSS
Moses Taylor, Jr.	NUTECH
Jarry Rose	NUTECH
K. C. Leu	NRC/NMSS
Fritz Sturz	NRC/NMSS
Kim A. Williamson	CP&L
Barry Manili	NRC/NRR

Mr. E. E. Utley
Carolina Power & Light Company

Brunswick Steam Electric Plant
Units 1 and 2

cc:

Mr. P. W. Howe
Vice President
Brunswick Nuclear Project
Box 10429
Southport, North Carolina 28461

Mr. J. L. Harness
Plant General Manager
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, North Carolina 28461

Mr. R. E. Jones, General Counsel
Carolina Power & Light Company
P. O. Box 1551
Raleigh, North Carolina 27602

Mr. H. A. Cole
Special Deputy Attorney General
State of North Carolina
Post Office Box 629
Raleigh, North Carolina 27602

Mr. Mark S. Calvert
Associate General Counsel
Carolina Power & Light Company
Post Office Box 1551
Raleigh, North Carolina 27602

Mr. Robert P. Gruber
Executive Director
Public Staff - NCUC
Post Office Box 29520
Raleigh, North Carolina 27626-0520

Mr. Christopher Chappell, Chairman
Board of Commissioners
Post Office Box 249
Bolivia, North Carolina 28422

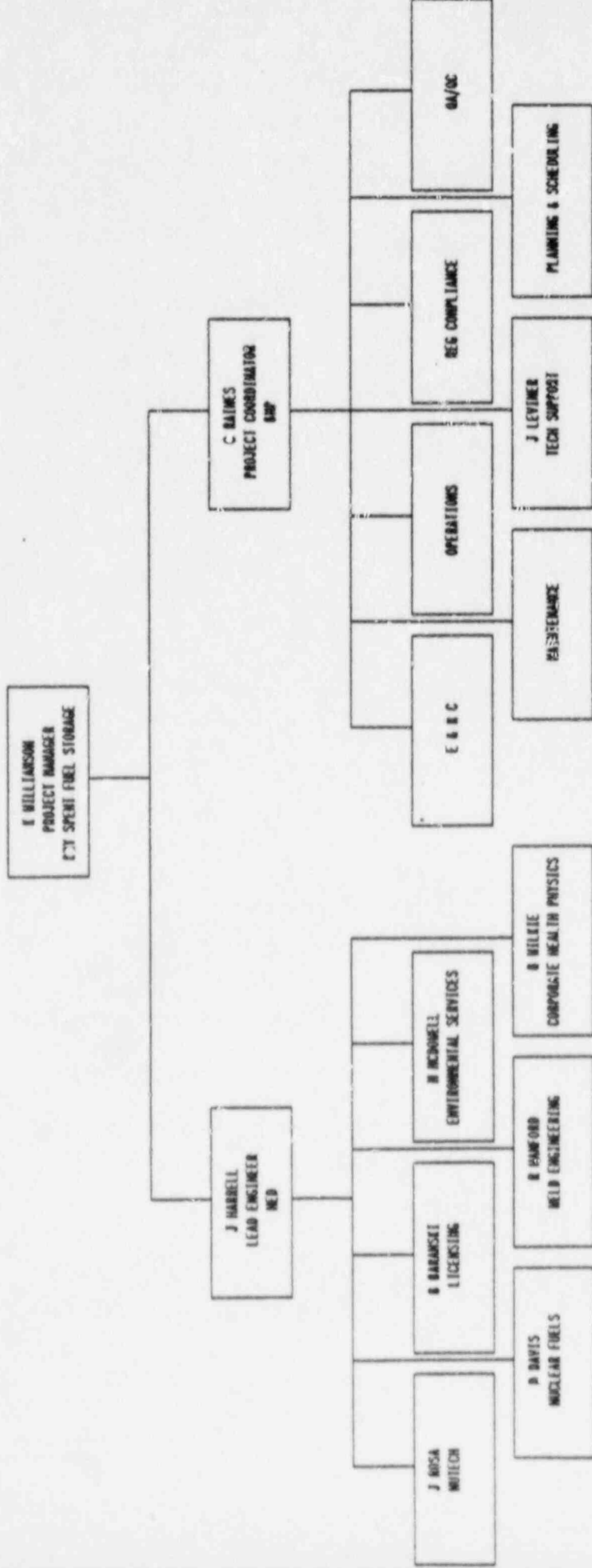
Mrs. Chrys Baggett
State Clearinghouse
Budget and Management
116 West Jones Street
Raleigh, North Carolina 27603

Resident Inspector
U. S. Nuclear Regulatory Commission
Star Route 1
Post Office Box 208
Southport, North Carolina 28461

Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, Suite 2900
Atlanta, Georgia 30323

Mr. Dwayne H. Brown, Chief
Radiation Protection Branch
Division of Facility Services
N. C. Department of Human Resources
701 Barbour Drive
Raleigh, North Carolina 27603-2008

DRY SPENT FUEL STORAGE
 PROJECT MANAGEMENT MATRIX TEAM
 BRUSHGATE NUCLEAR PROJECT



BRUNSWICK
STEAM ELECTRIC PLANT
UNITS 1 AND 2

ISFSI

PROJECT DESCRIPTION

- 0 NUHOMS-07P SYSTEM
- 0 SYSTEM DESIGN IS A SIBLING TO HBR2 ISFSI
- 0 STORAGE FOR 304 HBR2 FUEL ASSEMBLIES
(44 MODULES)
- 0 SYSTEM WILL USE THE IF-300 TRANSFER CASK,
AND HBR2 HSM DESIGN
- 0 TRANSPORT MAY BE HBR2 DESIGN OR PNEUMATIC-
TIRED HYDRAULIC-SUSPENSION TYPE
8 FOOT POSTULATED DROP HEIGHT WILL NOT
BE AFFECTED
- 0 SECURITY SYSTEM SEPARATE BUT COMPATIBLE WITH SITE
CONTROLLED AREA SECURITY SYSTEM
- 0 SITE EVALUATION DOCUMENT COMPLETE - UNDERGOING
FINAL REVIEW
- 0 PROJECT WILL BUILD ON HBR2 EXPERIENCE
AND USE PROCEDURES PREVIOUSLY DEMONSTRATED
TO BE SUCCESSFUL

BRUNSWICK
STEAM ELECTRIC PLANT
UNITS 1 AND 2

ISFSI

APPROACH TO LICENSING

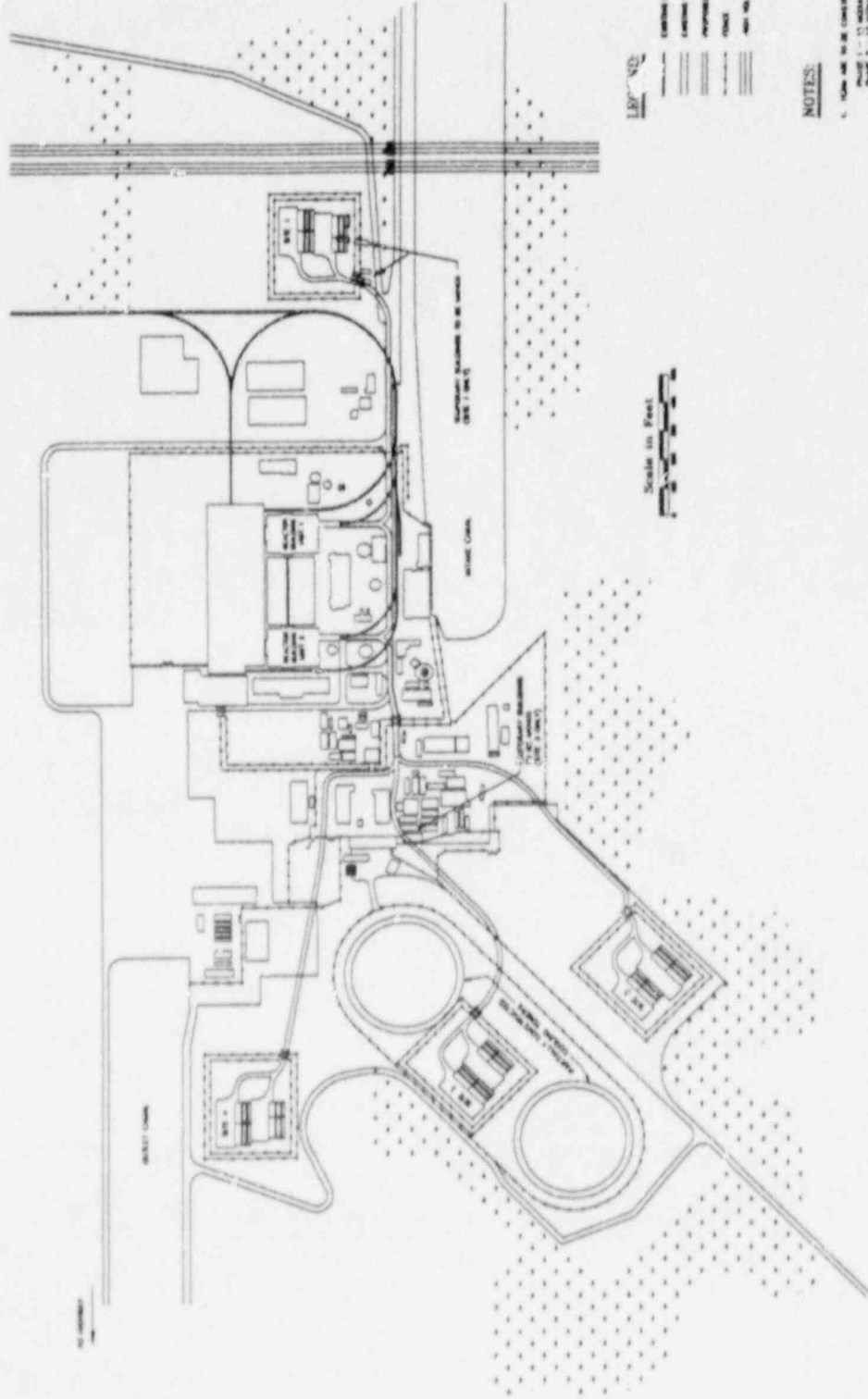
- 0 USE OF STANDARDIZED, PREVIOUSLY LICENSED DESIGN
- 0 SYSTEM WILL USE APPROVED TOPICAL REPORT FOR NUHOMS-07P (NUH-001)
- 0 SYSTEM AND FUEL PARAMETERS PREVIOUSLY ANALYZED IN TR AND HBR2 SAR
- 0 SAR AND ER WILL BE VERY SIMILAR TO APPROVED DOCUMENTS FOR HBR2
- 0 ALL SAFETY-RELATED COMPONENTS WILL BE IDENTICAL TO HBR2 COMPONENTS

BRUNSWICK
STEAM ELECTRIC PLANT
UNITS 1 AND 2

ISFSI

APPROACH TO LICENSING

- 0 LICENSE APPLICATION SUBMITTAL JANUARY 6, 1989
- 0 NRC REVIEW AND APPROVAL OF SITE LICENSE APPLICATION
REQUESTED BY MARCH 1990



LEP 100

- EXISTING MAJOR ROAD
- EXISTING HIGHWAY
- PROPOSED THROTTLED MAJOR HIGHWAY
- FENCE
- NEW MAJOR HIGHWAY THROTTLED JUNCTION

NOTES:

1. PLAN AND TO BE CONSTRUCTED IN PHASES AS FOLLOWS:
PHASE 1 - 10 BARRACKS
PHASE 2 - 10 BARRACKS
PHASE 3 - 4 BARRACKS
PHASE 4 - 4 BARRACKS
2. NEW BARRACKS PHASES SHOULD BE LOCATED NORTH SIDE OF SOUTH SIDE DRIVE WITH 10-15 FT. FROM WEST SIDE AND 10-15 FT. FROM SOUTH SIDE OF SOUTH SIDE DRIVE.

Figure A-2
ISPSI CANDIDATE SITES
GENERAL LAYOUT OPTION 2