

AUG 10 1989

Project No. M-45

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

FROM: Peter Loysen, Licensing Project Manager
Advanced Fuel and Special
Facilities Section
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety

SUBJECT: SUMMARY OF INITIAL MEETING WITH LOUISIANA ENERGY SERVICES

The NRC staff met with representatives of Louisiana Energy Services (LES) on August 1, 1989, to discuss a prospective application to build a centrifuge uranium enrichment plant. LES is a joint venture among Urenco, Inc., Fluor-Daniel, Inc., and three electric utilities, Duke Power Company, Louisiana Power & Light Company, and Northern States Power Company. The purposes of the meeting were to introduce participants, obtain preliminary information on the plant and schedule of activities, establish protocol, and identify pre-application activities and licensing issues. A list of the meeting attendees is enclosed.

After all LES and NRC participants were introduced and their areas of responsibility defined, LES provided some information about the plant, its siting and schedules. The Louisiana plant will be similar in technical respects to the newest URENCO plant in Gronau, Federal Republic of Germany, and will be adapted to United States technology by Fluor-Daniel. Three sites in Claiborne Parish, 50 miles northeast of Shreveport, are being considered. One is expected to be selected in August 1989. LES expects to submit a license application, pursuant to 10 CFR Part 50, by late 1990. Duke Engineering and Services will have the main responsibility for licensing activities, and will act as the coordinator among the partners in LES' interactions with NRC. Copies of the viewgraphs used in LES' presentation are enclosed.

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Leland C. Rouse

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Brief discussions were held about pre-application activities including: anti-trust information; foreign ownership, control, and documentation; facility security plans and transfer of classified information; and quality assurance. NRC identified the licensing issues on which criteria and guidance are being prepared. Additional meetings on individual topics and issues will be scheduled in the coming months.

Original Signed by
Jerry J. Swift *for*

Peter Loysen, Licensing Project Manager
Advanced Fuel and Special
Facilities Section
Fuel Cycle Safety Branch
Division of Industrial and
Medical Nuclear Safety

Enclosures:

1. Attendees
2. Viewgraphs

Distribution:

Project M-45	PDR	NRC File Center	NMSS R/F	IMSB R/F
IMAF R/F	NRC Meeting Attendees		PLoysen	FBrown
OFC: IMAF <i>EL</i>	: IMAF	: IMAF	: IMSB	:
NAME: PLoysen: jc	: FBrown	: JJSwift	: LCRouse	:
DATE: 08/9/89	: 08/9/89	: 08/10/89	: 08/9/89	:

OFFICIAL RECORD COPY

AUG 10 1989

LOUISIANA ENERGY SERVICES

Meeting August 1, 1989

Attendees

<u>NAME</u>	<u>Affiliation</u>
Peter Loysen	NRC/NMSS
Chuch Nilsen	NRC/RES
Joseph DiStefano	LES
Joseph Brennan	Flour Daniel
Myron Kratzer	Les/URENCO
Peter G. LeRoy	LES/Duke Engr.
Mike McGarry	LES/BCP&R
Clarence Ray	LES/Duke Engineering
Robert F. Burnett	SGTR
Stuart A. Treby	NRC/OGC
Robert M. Bernero	NRC/NMSS
Robert L. Fonner	NRC/OGC
Raymond J. Brady	NRC/SEC
Leland C. Rouse	NRC/NMSS
Joseph Rutberg	NRC/OGC
Bernard M. Bordenick	NRC/OGC
Charles L. Cain	NRC/Region IV
Florence Brown	NRC/NMSS
R. Davis Hurt	NRC/NMSS
Gary C. Comfort, Jr.	NRC/NMSS
Roy Voegele	NRC/OGC
Lynn Silvious	NRC/SEC
Lewis Robertson	NRC/SEC
Joanna M. Becker	NRC/OGC
Tom Combs	NRC/GPA
Philip Ting	NRC/NMSS/SGTR
Guy A. Arlotto	NRC/NMSS
Carol Harris	NRC/SEC
Duane Kidd	NRC/SEC
Marvin Peterson	NRC/GPA/IP
Glen L. Sjoblom	NRC/NMSS
James Petersen	NRC/NRR
George McCorkle	NRC/SGTR
Don Kasun	NRC/SGTR

Enclosure 1

URENCO PLANTS OPERATING IN EUROPE

	<u>YEAR ON-LINE</u>	<u>CAPACITY</u> <u>(X1000 SWU)</u>
Great Britain	1976	800
The Netherlands	1976	1,200
West Germany	1985	400

SEPARATIONS
BUILDING

LABORATORIES
&
MAINTENANCE

SUB
STATION

CENTRIFUGE
ASSY

TAILS STORAGE

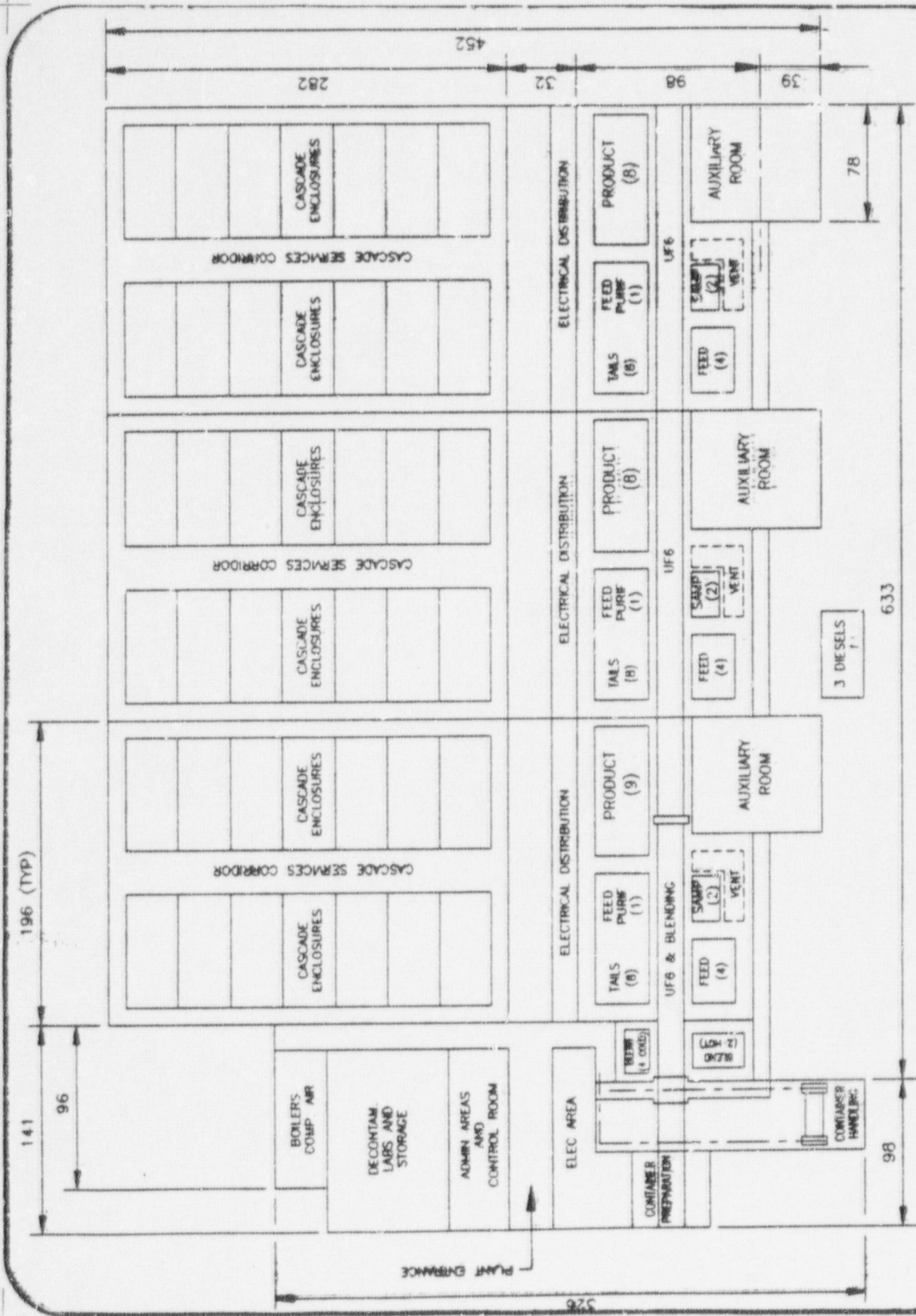
CONTAINER
RECEIPT &
DISPATCH

OFFICE

APPROX. 100 ACRES
DEVELOPED SITE

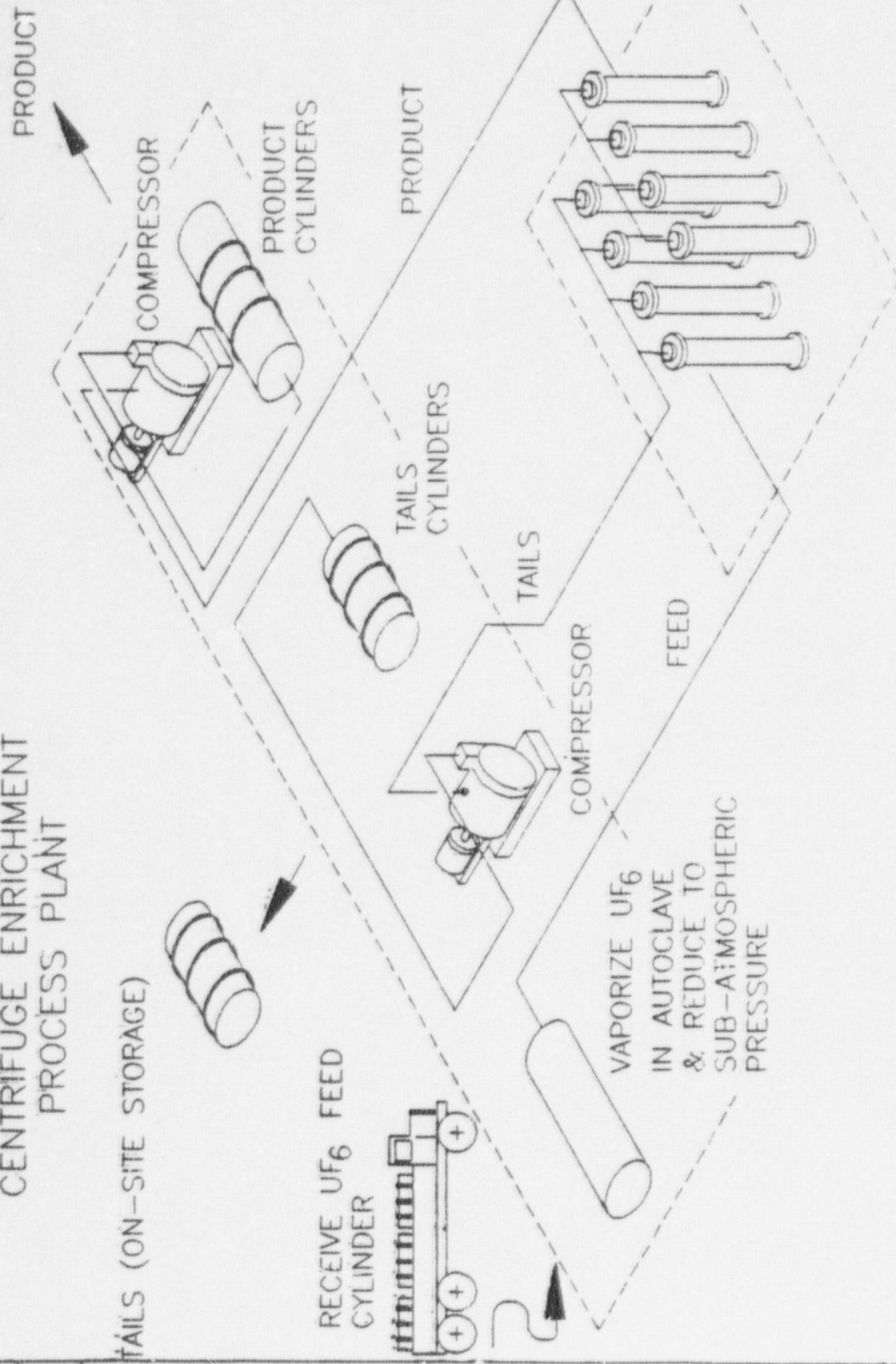
LES
SITE ARRANGEMENT
(REPRESENTATION)

WIND - VELOCITY - 100 MPH



LES
PLANT "MODULAR" LAYOUT
(REPRESENTATION)

SCHEMATIC DIAGRAM OF A CENTRIFUGE ENRICHMENT PROCESS PLANT



CONSTRUCTION SCHEDULE

Final Engineering and Procurement

▲ NRC Issues Construction Permit

▲ 1st Cascade Complete

Facility (BOP) Construction

▲ 2nd Cascade Complete

▲ 3rd Cascade Complete

0 5 10 15 20 25 30 35 40 45 50 55 60 65

MONTHS

NRC SLIDES

CLAIBORNE PARISH

To
Shreveport
(30 Miles)

Minden



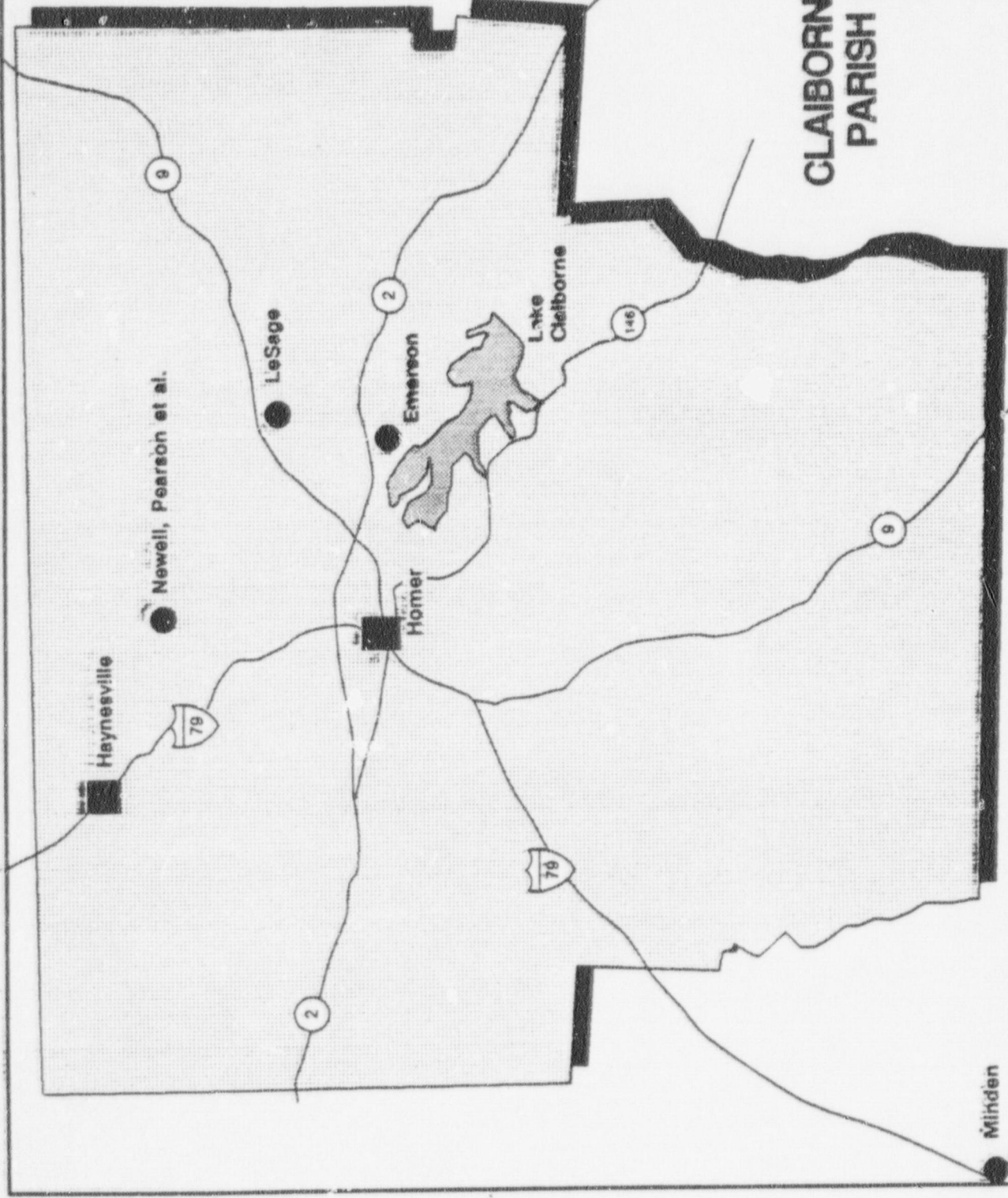
Homer

Emerson

LeSage

Newell, Pearson et al.

Haynesville



HOMER

SITE C



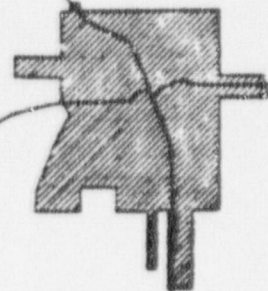
SITE B



SITE A



HAYNESVILLE



9

2

9

2

2

SITE STATUS

• SITE A

- PURCHASED LAND OPTION ON THE 520 ACRES.
- INQUIRED ON THE AVAILABILITY OF ADJACENT LAND IF REQUIRED.
- CONTRACTED FOR A ENVIRONMENTAL ACCESSMENT STUDY AND PRELIMINARY GEOTECHNICAL INVESTIGATION, RESULTS ARE DUE EARLY TO MID AUGUST.

• SITE B

- PURCHASED LAND OPTION ON THE 470 ACRES.
- PURSUING CONFIRMATION THAT THE ROAD WILL BE RELOCATED BY THE PARISH.
- CONTRACTED FOR A ENVIRONMENTAL ACCESSMENT STUDY AND PRELIMINARY GEOTECHNICAL INVESTIGATION, RESULTS ARE DUE EARLY TO MID AUGUST.

• SITE C

- PURCHASED LAND OPTION ON THE 432 ACRES.
- PURSUING CONFIRMATION THAT THE ROAD CAN BE CLOSED PERMANENTLY.
- CONTRACTED FOR A ENVIRONMENTAL ACCESSMENT STUDY AND PRELIMINARY GEOTECHNICAL INVESTIGATION, RESULTS ARE DUE EARLY TO MID AUGUST.

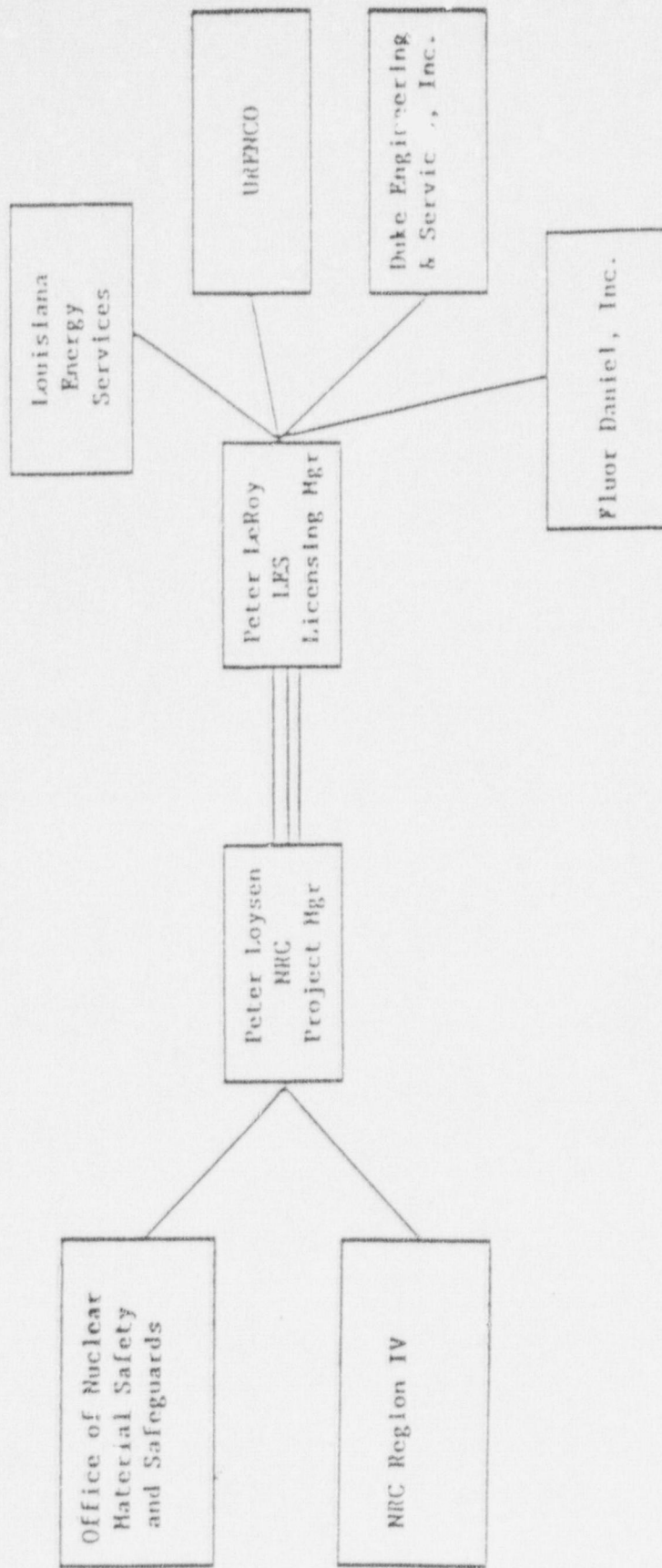
LES

LICENSING PROGRAM

LES

URANIUM ENRICHMENT FACILITY

NRC/LES Interface



LES
URANIUM ENRICHMENT FACILITY

LICENSING SCHEDULE

ENGINEERING & DESIGN, PRODUCE SAR AND ER

▲ KICKOFF - JULY 1989

▲ SUBMIT SAR & ER - NOVEMBER 1990

▲ SITE SELECTED - AUGUST 1989

MET DATA MET DATA

▲ COLLECT METEOROLOGICAL DATA - APRIL 1989

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MONTHS