



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 9, 2002

MEETING NOTICE

Applicant: Louisiana Energy Services
Suite 200
1133 Connecticut Avenue, NW
Washington, DC 20036

Docket: 70-3103

Date and Time: October 3, 2002; 1:00 P.M.

Location: U.S. Nuclear Regulatory Commission
One White Flint North Building, Room O-7B4
11555 Rockville Pike
Rockville, Maryland

Purpose: To discuss site characterization information applicable to a gas centrifuge license application.

NRC Attendees: M. Leach, J. Giitter, T. Johnson, J. Lieberman, D. Brown, S. Flanders, T. Harris, technical staff

Other Attendees: P. Upson/LES; R. Krich/Exelon; C. Andrews/LES; E. Maher/LES; technical staff

Contact: T. Johnson; 301-415-7299; tcj@nrc.gov

Attendance at this meeting by other than those listed above should be made known via phone to above contact.

Category: Category 1 Meeting: The public is invited to observe this meeting and will have one or more opportunities to communicate with the NRC after the business portion, but before the meeting is adjourned.

NOTE: NRC Meetings are open for interested members of the public to attend pursuant to the "Enhanced Public Participation in NRC Meetings; Policy Statement," 67 *Federal Register* 36920, May 28, 2002.

Portions of this meeting may be closed to members of the public due to the proprietary nature of information to be discussed pursuant to 10 CFR 2.790.

Attachment: Meeting agenda

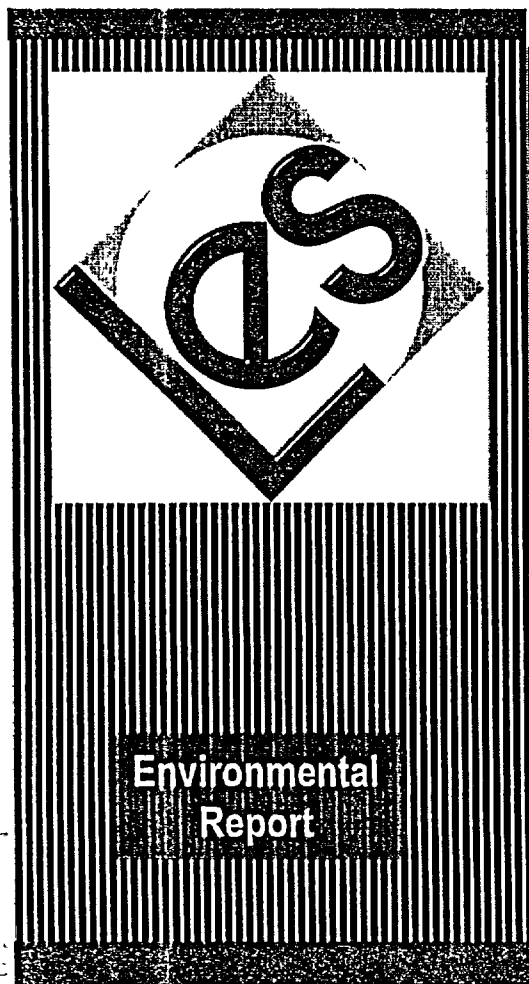
Louisiana Energy Services Pre-Application Meeting Agenda
October 3, 2002

- ___ Purpose/Introductions (TJohnson)
- ___ Site Characterization Approach
- ___ Summary and Conclusions

Hartsville Site Characterization

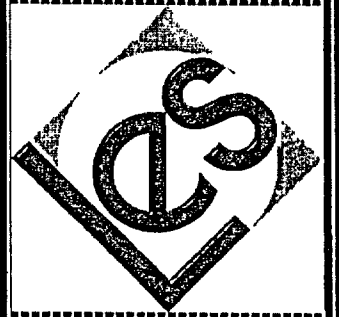
Edward F. Maher, Sc.D., CHP

October 3, 2002
Rockville, MD



Attachment 3

Topics Covered



Site Selection Criteria

About the Hartsville, TN Site

Site Environmental Conditions

- Hydrology/Geology/Ecology
- Historical and Archeology
- Environmental Justice

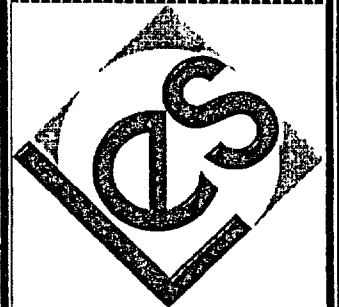
Environmental Report (ER) Data Sources

Status of ER Data Collection

Permits Required

Environmental
Report

Site Selection Criteria (Primary)



Acceptable Seismology (0.04-0.08 g)

Robust Site Characterization Data

Moderate Climate (construction)

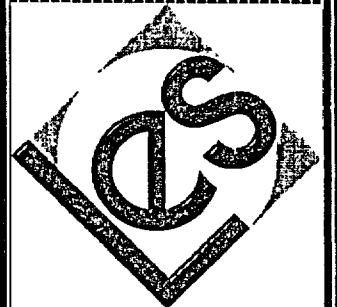
Land Not Previously Contaminated

Redundant Electrical Power Supply

Size of Land Plot

Environmental
Report

Site Selection Criteria (Secondary) Examples



Suitable Land Topography

Political/Public Support

Extant Nuclear Site

Availability of Skilled Workers

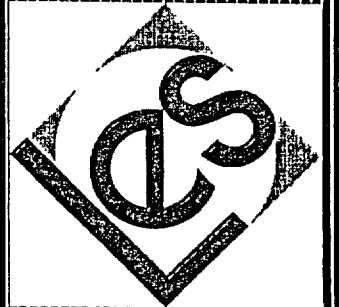
Good Transportation Routes

Good Quality Electrical Power

Disposal of Low-Level Waste

Environmental
Report

Site Selection Criteria (Secondary) Examples

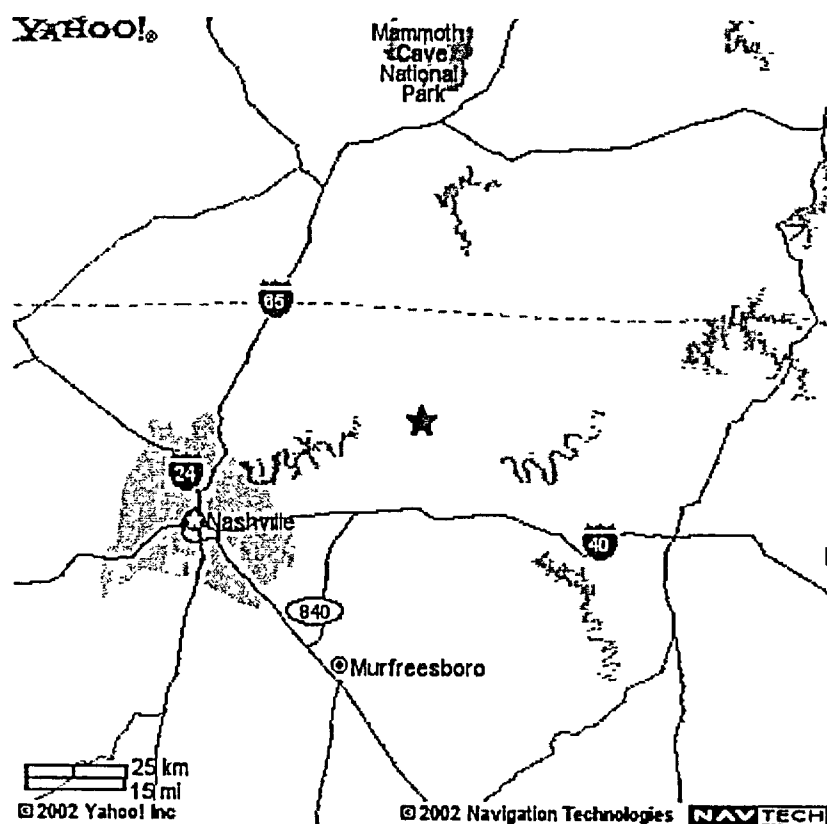


Proximity of Hazardous Operations
Low-Cost Electrical Power
Acceptable Environmental Impact
Good Amenities for Workforce

Environmental
Report

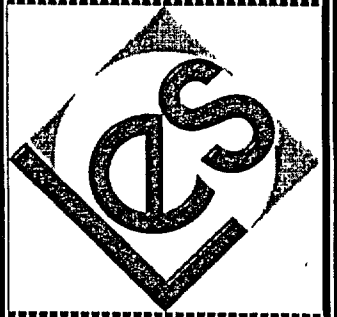
Hartsville, Tennessee

40 Miles NE of
Nashville, TN
5 Miles NW of TVA
Nuclear Plant Site
Trousdale County
Population: 2500
Near Cumberland
River



Environmental
Report

Hartsville, Tennessee

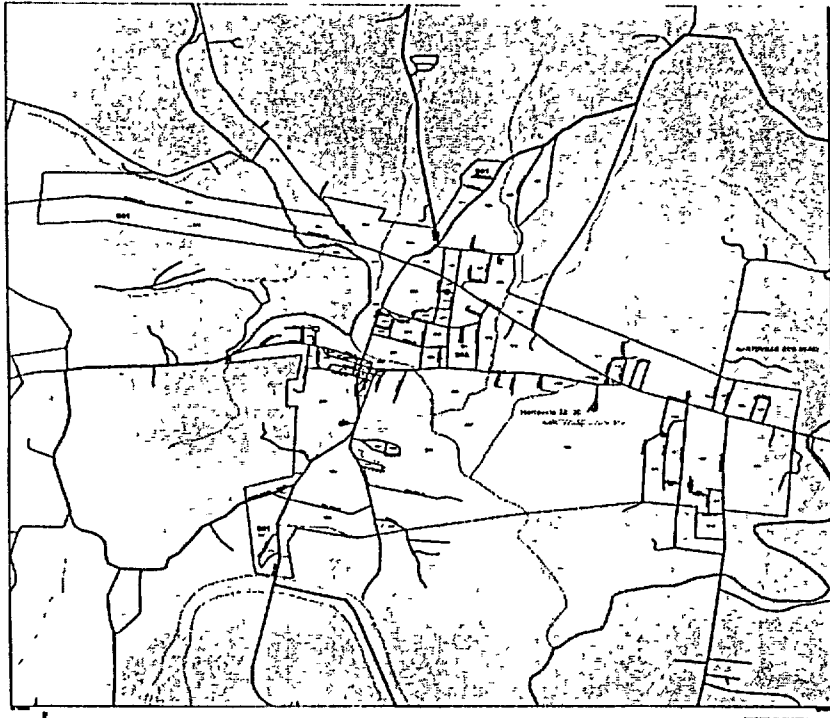


Technical Center

Utilities:

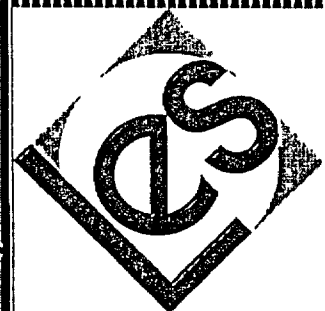
- Potable Water
- Sewer Service

Good Highway
Access



Environmental
Report

TVA Site at Hartsville



Purchased by TVA in Late 1960's

Proposed Site of Hartsville Nuclear Plants

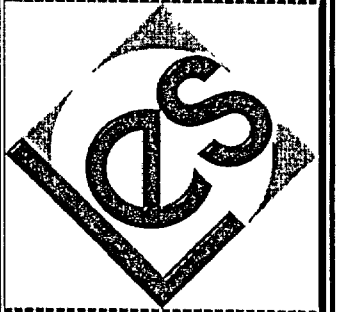
- Plant A (2 units) was 65% completed
- Plant B (2 units) was 20% completed

Project Abandoned in Early 1980's

Still Under Custodial Care of TVA

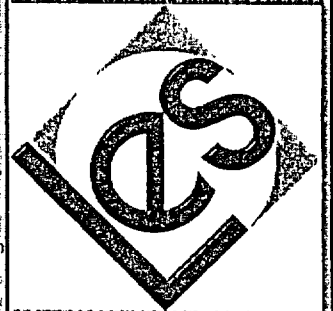
552 Acres Transferred to Four Lake
Regional Industrial Development Authority

Environmental
Report

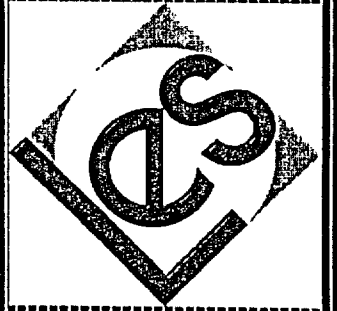


Environmental
Report

PROPOSED 262-ACRE SITE ENVIRONMENTAL CHARACTERISTICS



Environmental
Report



No surface water bodies on the site

Adjacent small streams, runoff, and ground water drain toward the Cumberland River

Ground water flow controlled by infrequent joints in relatively impermeable bedrock

Unremarkable site hydrogeology

Environmental
Report

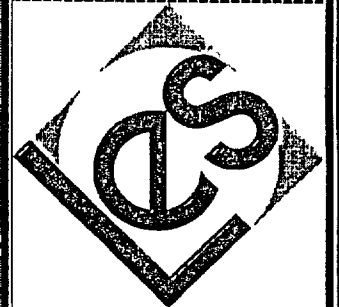


Groundwater Hydrology to be Verified

- 9 wells with level & quality data (1975)
- ER (1975) found no water quality issues
- Install 6 monitoring wells
- Sample wells weekly then monthly
- ER (1975) test parameters, plus radiological and primary drinking water standards
- Compare new data to 1975 data

Environmental
Report

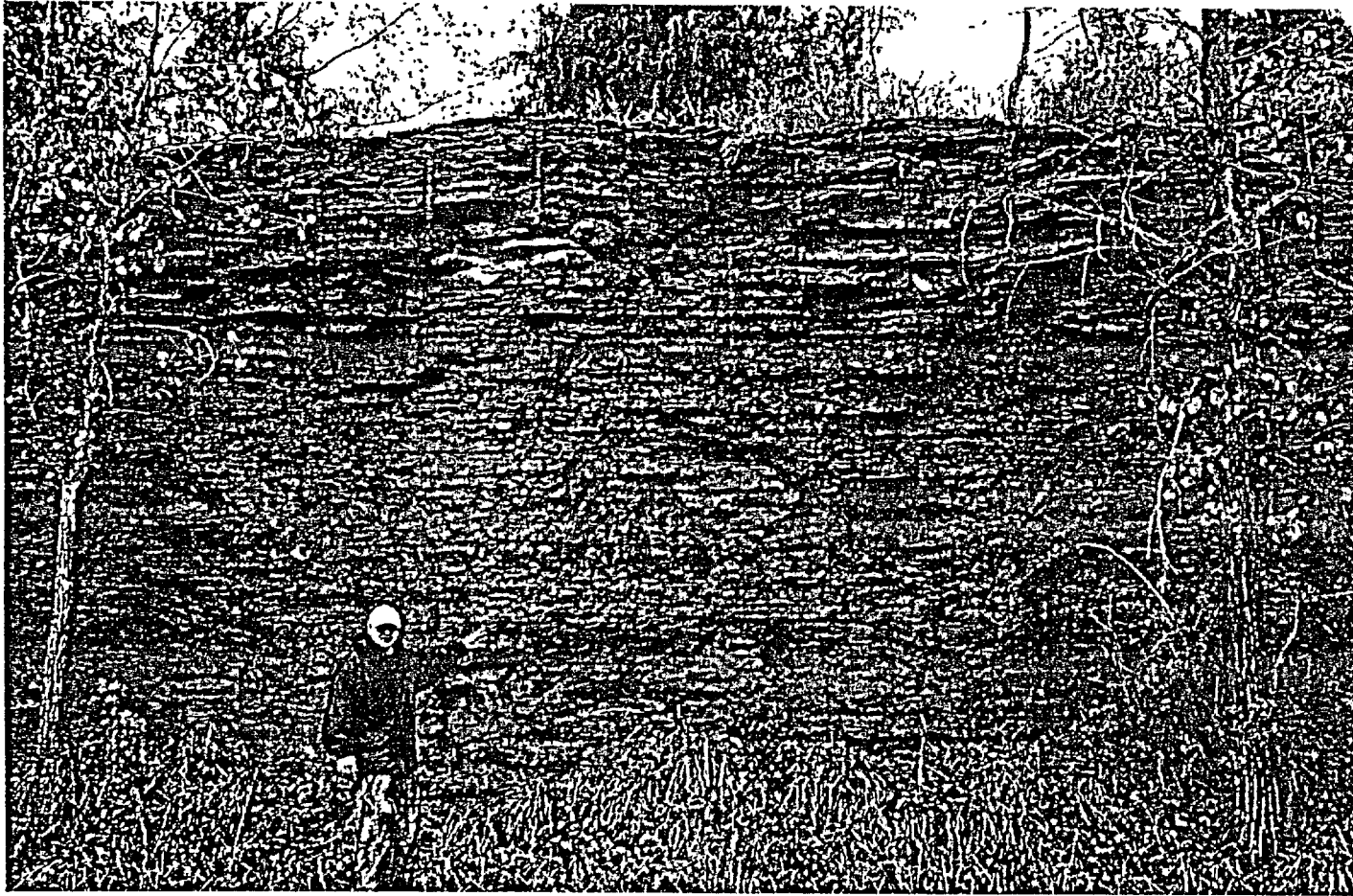
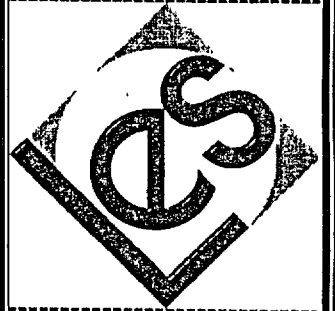
Site Geology



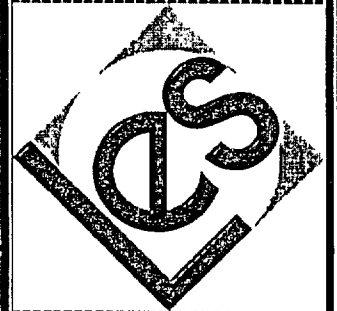
- Most soil thin or removed from the site
- Bedrock at or near the ground surface
- Massive shaley limestone fully adequate for foundation support
- Limited pockets of weathering may require minor remedial work for foundation construction
- Simple and adequate site geology

Environmental
Report

Site Geology (continued)



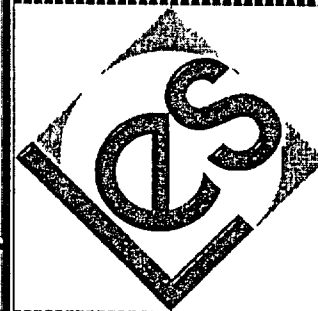
Environmental
Report



Ecological Impacts Limited due to:

- Previous site development (80% altered)
- No outstanding natural communities
- No proposed development within floodplain and wetland areas
- Preservation of riparian areas

Ecological Impacts (continued)

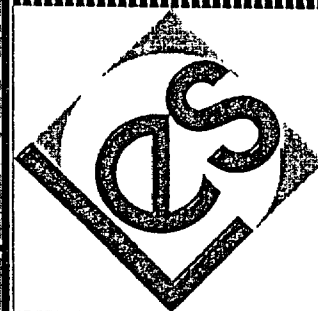


Ecological Impacts Limited due to:

- No rare, threatened or endangered species (animals or plants) have been found
- Use of Best Management Practices by LES relative to sediment and erosion control
- No industrial discharge to navigable waterway being proposed
- Little or no impact expected from construction or operation

Environmental
Report

Historical and Archeological Impacts



Previous studies did not indicate National Registry sites within 262 acre site

Native American burial mounds were found and/or suspected off-site

Majority of 262 acres has previously been altered for plant construction

No known historical or archeological impacts expected

Environmental
Report



TVA 2002 Environmental Assessment (EA)

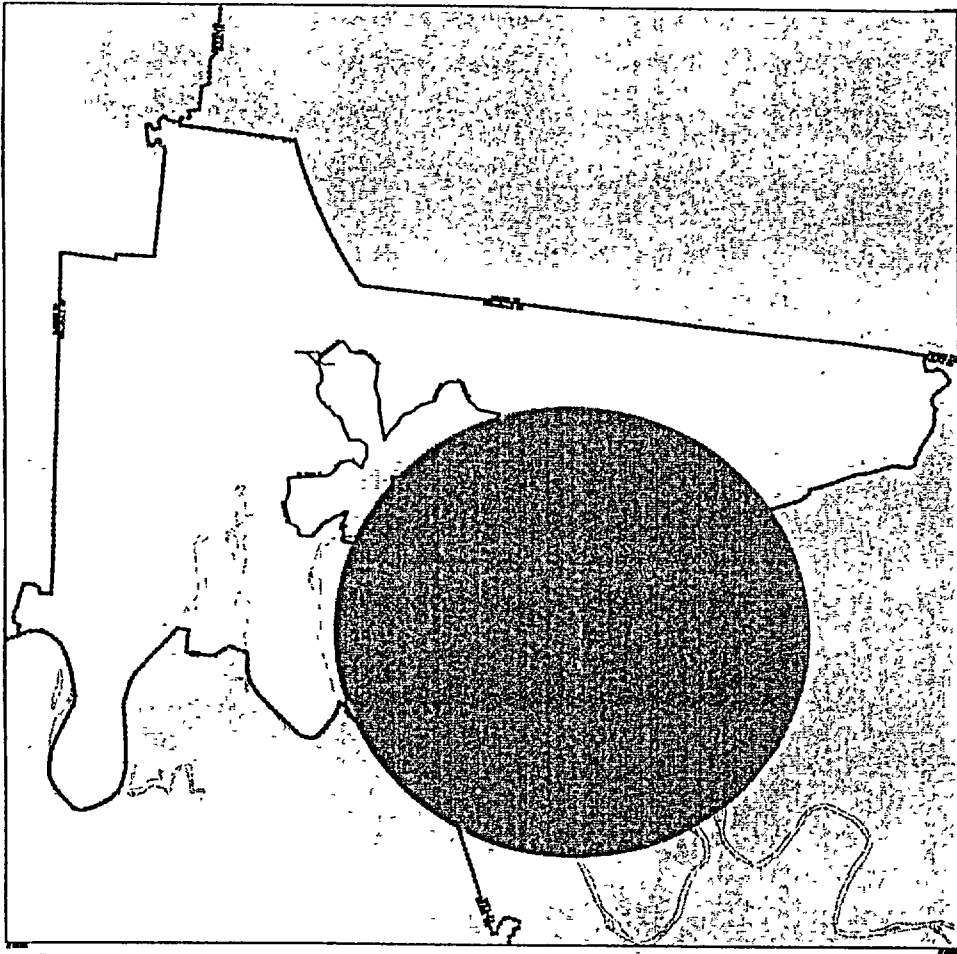
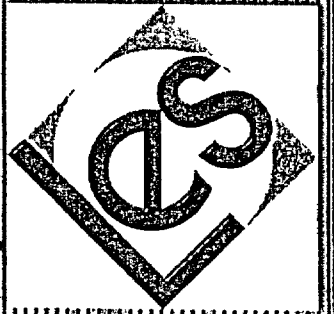
- Used county data only; no census areas
- Not consistent with NUREG 1748, Environmental Review Guidance for Licensing Actions Associated with NMSS Programs
- Found no EJ issues

EJ Re-Evaluation

- Two census areas (901 & 902)
- 50 mi² area includes one-half of Hartsville
- Results will be provided in ER

Environmental
Report

Environmental Justice (Block 901/902)



Environmental
Report

Regulatory Requirements and Guidance



10 CFR 51, Environmental Protection Regulations for Domestic Licensing and Related Regulatory Functions

NUREG 1748, Environmental Review Guidance for Licensing Actions Associated with NMSS Programs

NUREG 1520, Standard Review Plan for the Review of a License Application for a Fuel Cycle Facility

Regulatory Guide 4.9, Preparation of Environmental Reports for Commercial Uranium Enrichment Facilities

Environmental
Report

ER Data Sources

TVA Phase I Environmental
Survey (2002)

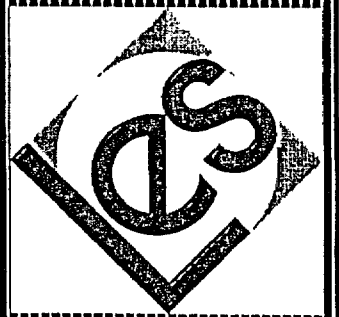
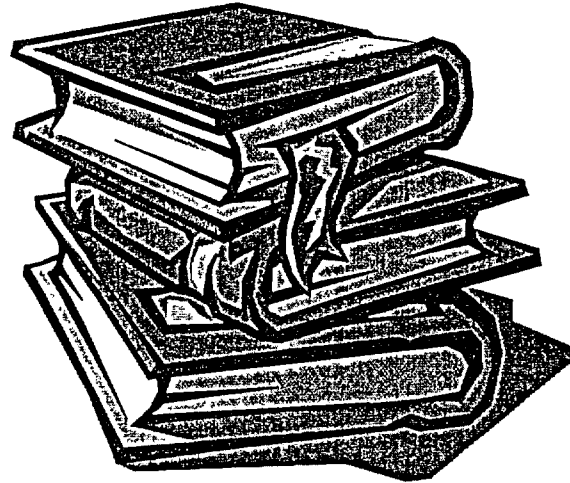
TVA EA (2002)

LES-1 FEIS and ER (1993-4)

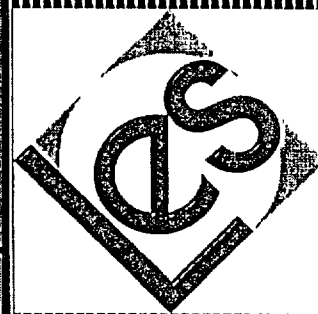
LES-1 Safety Evaluation Report,
NUREG 1491 (1994)

NRC Safety Evaluation Report for
Hartsville Nuclear Plant (1976)

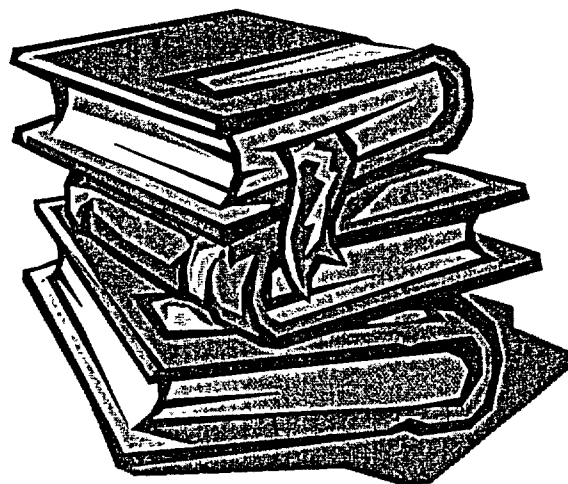
Hartsville Nuclear Plant FEIS,
NUREG 75/039 (1975)



Environmental
Report



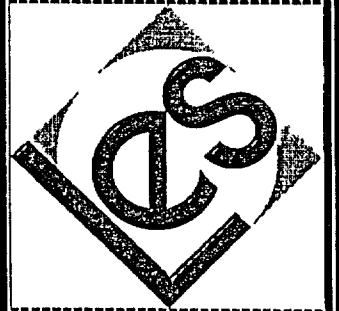
Hartsville Nuclear Site ER
and PSAR (1975)
TVA Documents/Files
A/E Design & Integrated
Safety Analysis Documents
Government Web Sites
Public & Private Sources
Local Universities
New Data Collected at Site



Environmental
Report

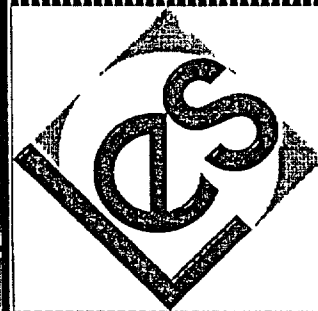
TVA Phase I Environmental Survey Results:

No known Use of Hazardous Materials
No Known NR Sites within 262 Acre Site
No Rare or Endangered Species' Habitats
No Above Ground- or Underground
Storage Tanks
Site is Above 100- and 500-Year
Floodplains



Environmental
Report

Data and Impact Gaps



Handling and Transportation of Nuclear
Materials

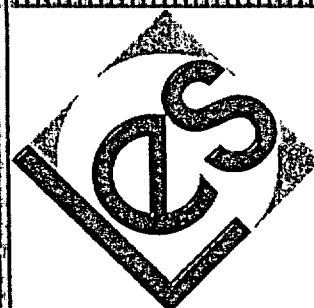
Electric Transmission Lines

Potential Impact of 13-Acre TVA Plant B
Site

Tails Storage

Environmental
Report

Adequacy of Existing ER Data

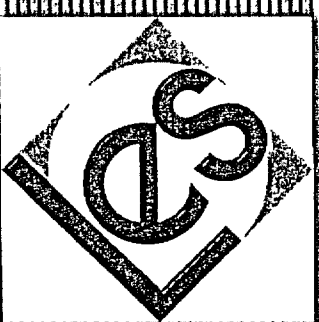


ER Section	Type Data	Existing Adequate	Minor Updating	Major Revision
3.1	Site Description		✓	
3.2	Land Use		✓	
3.3	Transportation	✓		
3.4	Geology & Soils	✓		
3.5	Water Resources		✓	

Environmental
Report

Adequacy of Existing ER Data

(Continued)

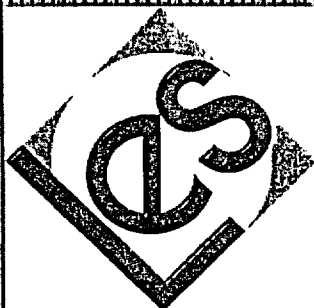


ER Section	Type Data	Existing Adequate	Minor Updating	Major Revision
3.6	Ecology		✓	
3.7	Meteorology Air Quality		✓	
3.8	Noise			✓
3.9	Historic & Cultural	✓		
3.10	Visual & Scenic		✓	

Environmental
Report

Adequacy of Existing ER Data

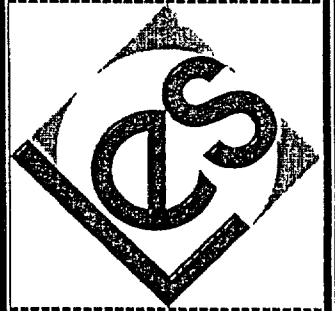
(Continued)



ER Section	Type Data	Existing Adequate	Minor Updating	Major Revision
3.11	Socio-economic			✓
3.12	Public & Worker Health		✓	
3.13	Waste Management			✓

Environmental
Report

State Permits Required



National Pollutant Discharge Elimination
System (NDPES) - Waste and Storm
Air Operating Permit
Hazardous Waste Permit
Landfill Permit (potential)

Environmental
Report

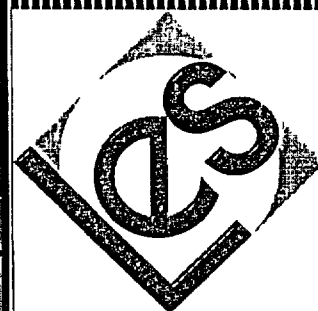
Conclusions

Hartsville, TN Site Scored Highest Relative to Site Selection Criteria

Very Low Environmental Impact from Facility based on European Plant Experience

Construction Impacts Minimal because the Site Already Altered

Robust Existing Environmental Data



Environmental
Report