See Pocket 1 Handouts for encls meeting 3/29-30/84

File 106.1

AGENDA

FIFTH BIMONTHLY MEETING
WITH SALT STATES REPRESENTATIVES AND NRC

MARCH 29-30, 1984

WM Record File 106.1

WM Project 16
Docket No.
PDR ✓
LPDR ✓

BATTELLE'S OFFICE OF NUCLEAR WASTE ISOLATION
1375 PERRY STREET
COLUMBUS, OHIO

Distribution:

(Return to WM, 623-SS)

Thursday, March 29 - Project Management Center (13-4-160)

8:30 - 9:00 a.m.	Opening Remarks and Program Update	T. Taylor
9:00 - 10:45 a.m.	Technical Data: EA "Data Sheets" Status of TDMS	 R. Wunderlich M. Golis
10:45 - 11:30 a.m.	Preview of EA Chapter II: Application of Disqualifiers to 7 Sites	R. Wunderlich
11:30 - 12:15 p.m.	EA Schedule, State Interactions	R. Wunderlich/ T. Taylor
12:15 - 1:30 p.m.	Lunch - Cafeteria Room 3	
1:30 - 3:30 p.m.	Mission Plan, Vol. II	R. Stein
3:30 - 4:00 p.m.	Public Information Update	D. Keller/ H. Latham
4:00 - 5:00 p.m.	State C&C Grants	B. Gale

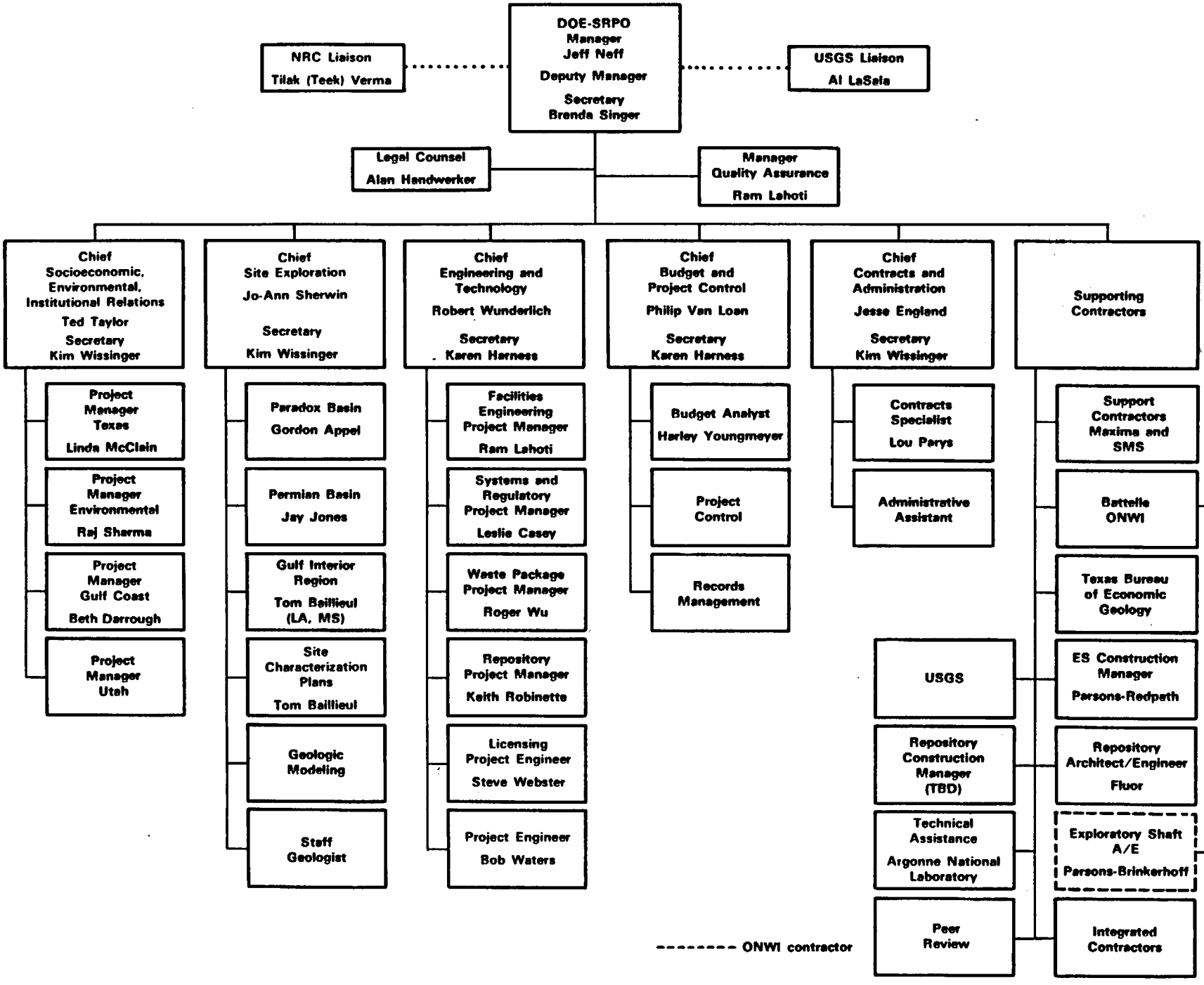
Friday, March 30 - Project Management Center (13-4-160)

8:30 - 9:30 a.m.	NRC Presentation	
9:30 - 10:30 a.m.	States' Critique/Recommendation of C&C Process — "cooperation + consideration"	
10:30 - 11:30 a.m.	States' Caucus	
11:30 - Noon	States' Response, Discussion	

Optional individual appointments with DOE and ONWI personnel can be arranged during the afternoon.

198

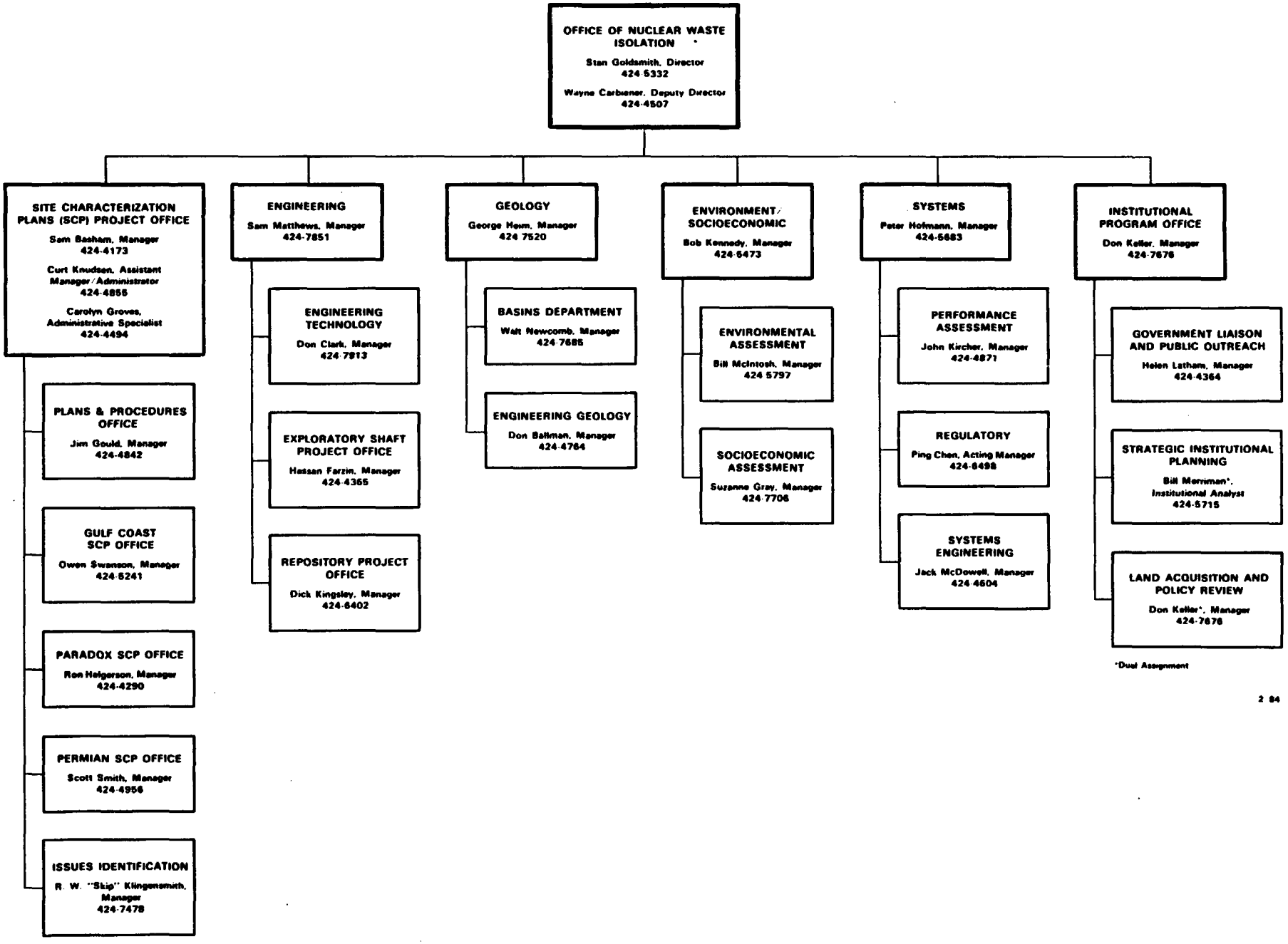
Salt Repository Project Office
Columbus, Ohio



Encl to meeting 3/29-30/84 handout File 106.1

OFFICE OF NUCLEAR WASTE ISOLATION ORGANIZATION

505 King Avenue, Columbus, Ohio 43201-2693
Area Code: 614



*Dual Assignment

2 84

MAJOR ONWI CONTRACTORS

Engineering

CONTRACTOR:
Parsons-Brinkerhoff/PB-KBB

FUNCTION:
Exploratory Shaft Architect/Engineer

CONTACT PERSON(S):
Bob Haag
ONWI
505 King Avenue
Columbus, Ohio 43201-2693
(614) 424-5100

CONTRACTOR:
Stearns-Roger Services, Inc.

FUNCTION:
EA Engineering Support

CONTACT PERSON(S):
Norm Henderson
ONWI
505 King Avenue
Columbus, Ohio 43201-2693
(614) 424-5392

Geology

CONTRACTOR:
Ertec, Inc.

FUNCTION:
Gulf Coast Basin Geologic
Project Manager

CONTACT PERSON(S):
Walt Newcomb
Basins Department Manager
ONWI
(614) 424-7685

Ken Wilson
Project Manager
Ertec
3777 Long Beach Boulevard
P.O. Box 7765
Long Beach, California 90807
(213) 595-6611

CONTRACTOR:
Woodward-Clyde Consultants (WCC)

FUNCTION:
Paradox Basin Geologic Project
Manager

CONTACT PERSON(S):
Walt Newcomb
Basins Department Manager
ONWI
(614) 424-7685

Terry Grant
Project Manager
WCC
1 Walnut Creek Center
100 Pringle
Walnut Creek, California 94596
(415) 945-3000

CONTRACTOR:
Stone & Webster Engineering
Corporation (SWEC)

FUNCTION:
Permian Basin Geologic Project
Manager

CONTACT PERSON(S):
Walt Newcomb
Basins Department Manager
ONWI
(614) 424-7685

Everett Washer
Project Manager
SWEC
245 Summer Street
P.O. Box 2325
Boston, Massachusetts 02107
(617) 589-2130

John Peck
Assistant Project Manager
SWEC
514 N. Filmore
Amarillo, Texas 79105
(806) 373-3048

Environment/Socioeconomic

CONTRACTOR:
Bechtel Group, Inc.

FUNCTION:
Gulf Coast Basin and Paradox Basin Environmental Project Manager

CONTACT PERSON(S):
Ted Thomas
Gulf Coast Basin Environmental Project Manager
ONWI
(614) 424-4687

Rick Moleski
Paradox Basin Environmental Project Manager
ONWI
(614) 424-7288

Tom Mongan
Project Manager
Bechtel
50 Beale Street
P.O. Box 3965
San Francisco, California 94119
(415) 768-2107

Note: This contract involves environmental and socioeconomic work.

CONTRACTOR:
NUS Corporation

FUNCTION:
Permian Basin Environmental Project Manager

CONTACT PERSON(S):
Dave Guzzetta
Environmental Assessment Office Manager
ONWI
(614) 424-4883

Mr. Terry Conway
Project Manager
NUS
910 Clopper Road
Gaithersburg, Maryland 20878
(301) 258-8682

Note: This contract involves environmental and socioeconomic work.

CONTRACTOR:
Texas Agricultural Experimental Station (TEAS)

FUNCTION:
Socioeconomic Analysis for Repository Siting (SEARS) Model

CONTACT PERSON(S):
Suzanne Gray
Socioeconomic Assessment Office Manager
ONWI
(614) 424-7706

Dr. Steve Murdock
Project Director
TEAS
Department of Rural Sociology
College Station, Texas 77843
(409) 845-5332

Systems

CONTRACTOR:
Intera Environmental Consultants

FUNCTION:
Performance Assessment

CONTACT PERSON(S):
John Kircher
Performance Assessment Manager
ONWI
(614) 424-4871

James E. Campbell
11999 Katy Freeway, Suite 610
Houston, Texas 77079
(713) 496-0993

CONTRACTOR:
Ebasco Services, Inc.

FUNCTION:
Licensing Project Manager

CONTACT PERSON(S):
Ping Chen
Regulatory Manager
ONWI
(614) 424-6498

Len Skoblar
Ebasco
160 Chubb Avenue
Lyndhurst, New Jersey 07071
(201) 460-6087

Institutional

CONTRACTOR:
Program Review Committee (PRC)

FUNCTION:
Oversight and Program Review

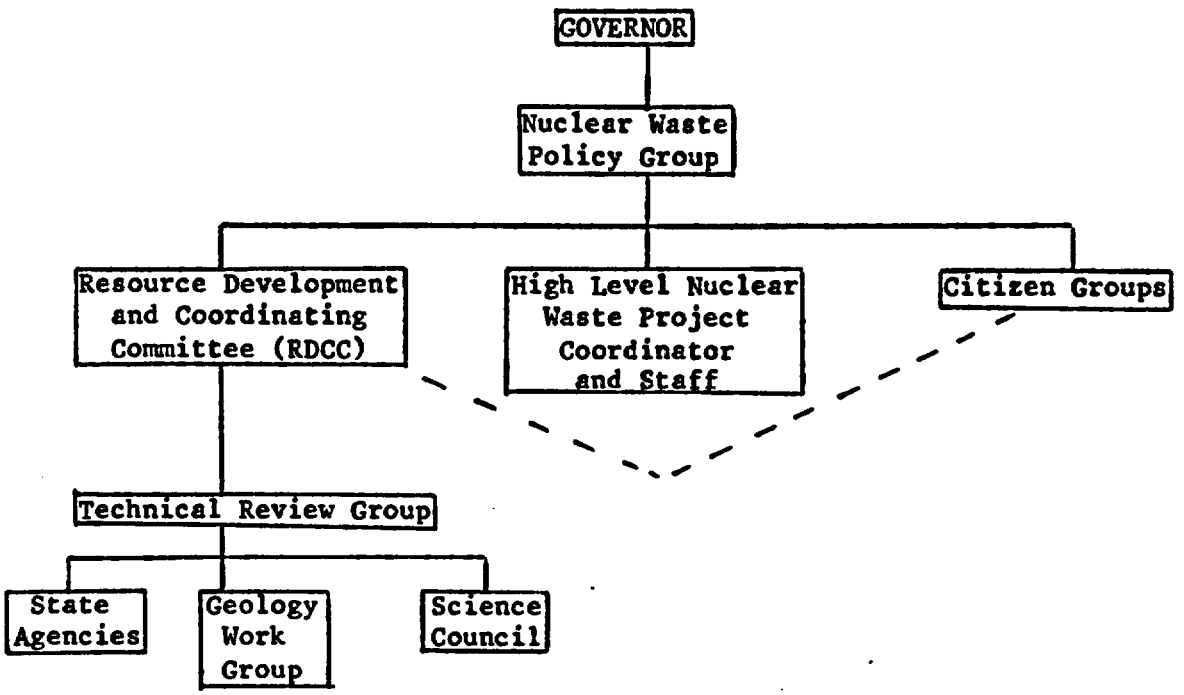
CONTACT PERSON(S):
Don Keller
Institutional Program Office Manager
ONWI
(614) 424-7676

Dr. Thomas Langevin
Chairman
PRC
Battelle Memorial Institute
505 King Avenue
Columbus, Ohio 43201-2693
(614) 424-2712, 424-4727

File 106.1 Mandates for bimonthly salt states meeting UTAH 3/29-30/89 (state charts)

STATE OF UTAH

High Level Nuclear Waste (HLNW) Repository Review Organization

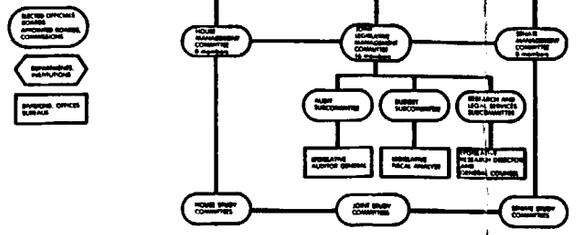


UTAH STATE GOVERNMENT

Prepared by
OFFICE OF LEGISLATIVE RESEARCH AND GENERAL COUNSEL
July 1, 1993

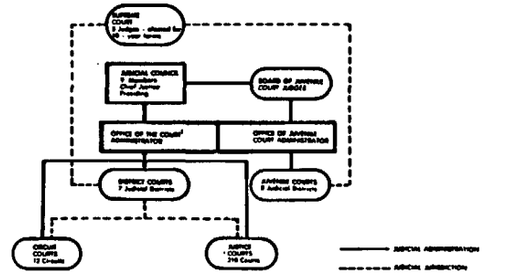
Population: 1 of 59 - 1990 U.S. Bureau of Census Figures
Counties: 29
School Districts: 40
Cities and Towns: 223

LEGISLATIVE

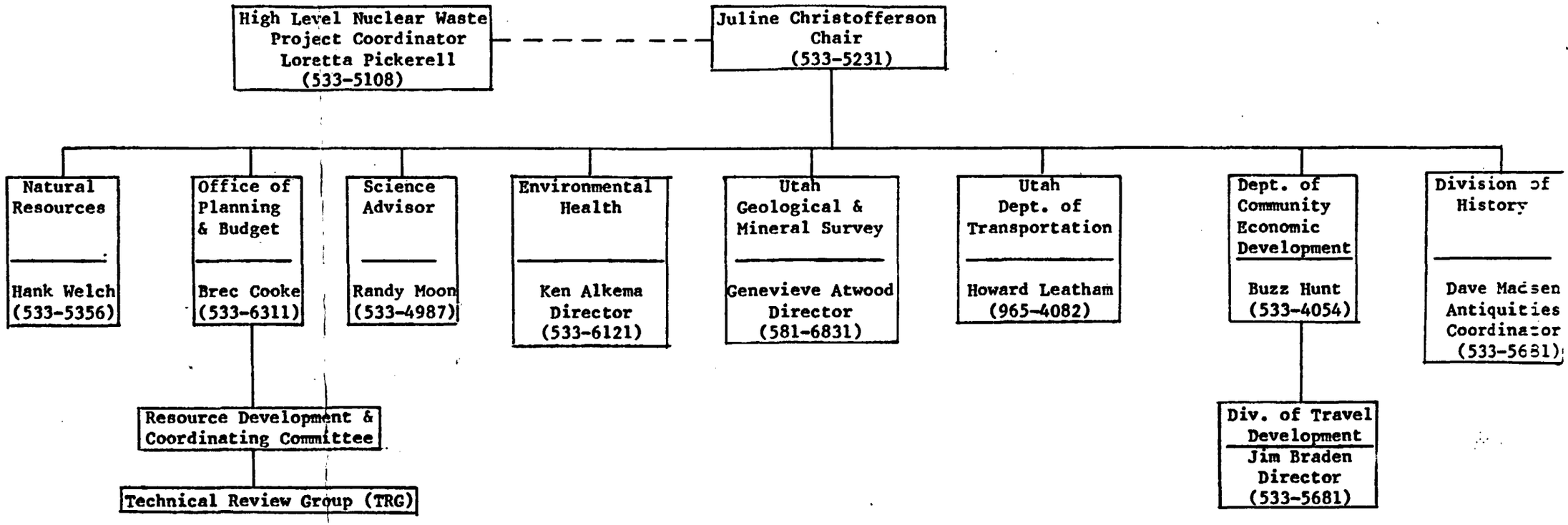


EXECUTIVE

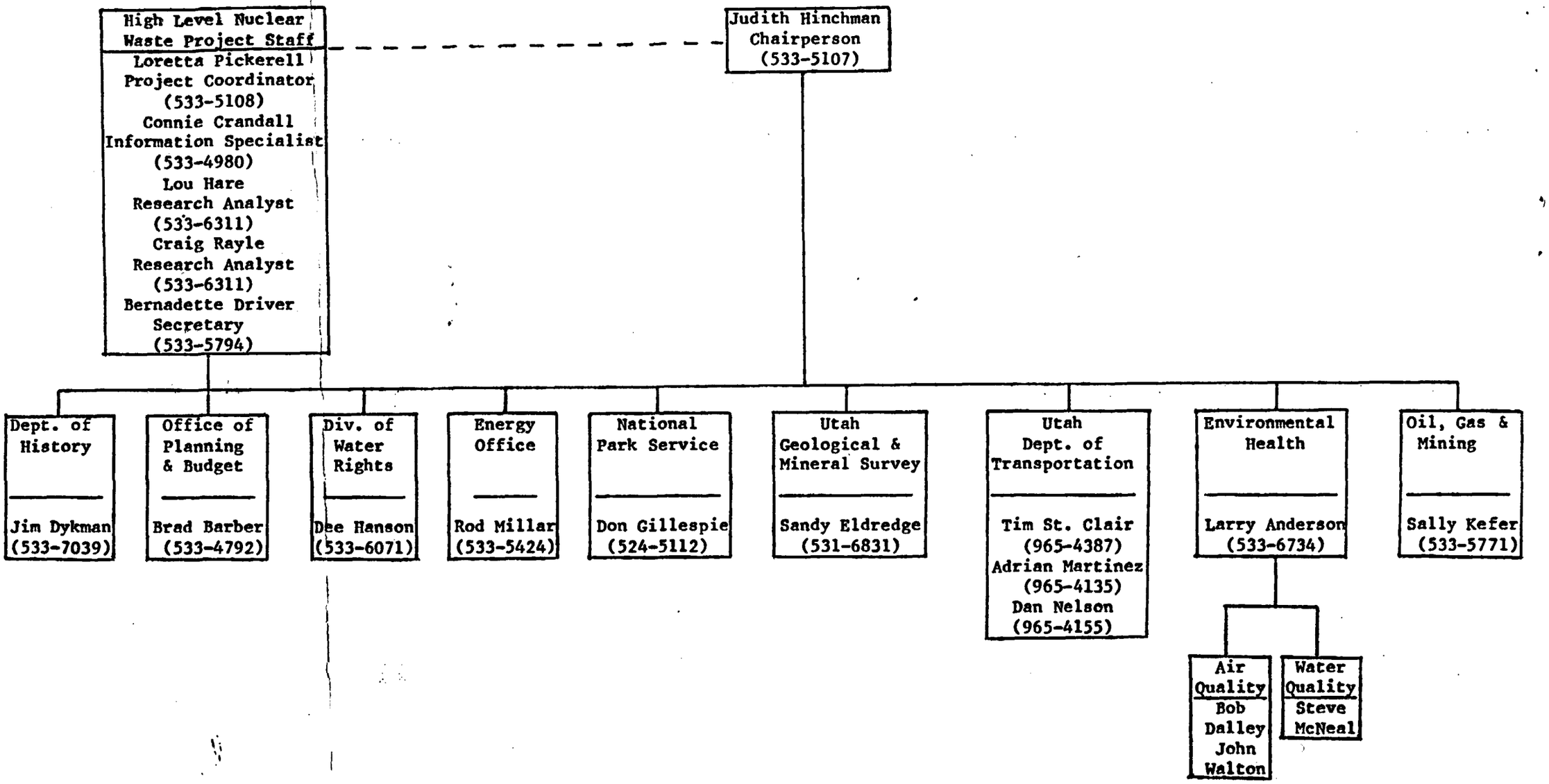
JUDICIAL



NUCLEAR WASTE POLICY COMMITTEE



NUCLEAR WASTE TECHNICAL REVIEW GROUP (TRG)



DEPARTMENT OF ENERGY & TRANSPORTATION
Watkins Building, 510 George Street
Jackson, Mississippi 39202-3096
601/961-4733

February 3, 1984

Mr. Theodore J. Taylor
Chief, Socioeconomic, Environmental
and Institutional Relations
Salt Repository Project Office
U. S. Department of Energy
505 King Avenue
Columbus, Ohio 43201

Dear Mr. Taylor:

At the Fourth Bi-monthly Salt States meeting, the request was made for all the states to send the Department of Energy, Nuclear Regulatory Commission and other states a copy of their organizational structure. I have enclosed a copy of our organizational chart, a list of members and their duties for the Energy and Transportation Board, Nuclear Waste Policy Advisory Council and Nuclear Waste Technical Review Committee.

If you have any questions concerning the organization of Mississippi's Nuclear Waste Program, please call.

Sincerely yours,

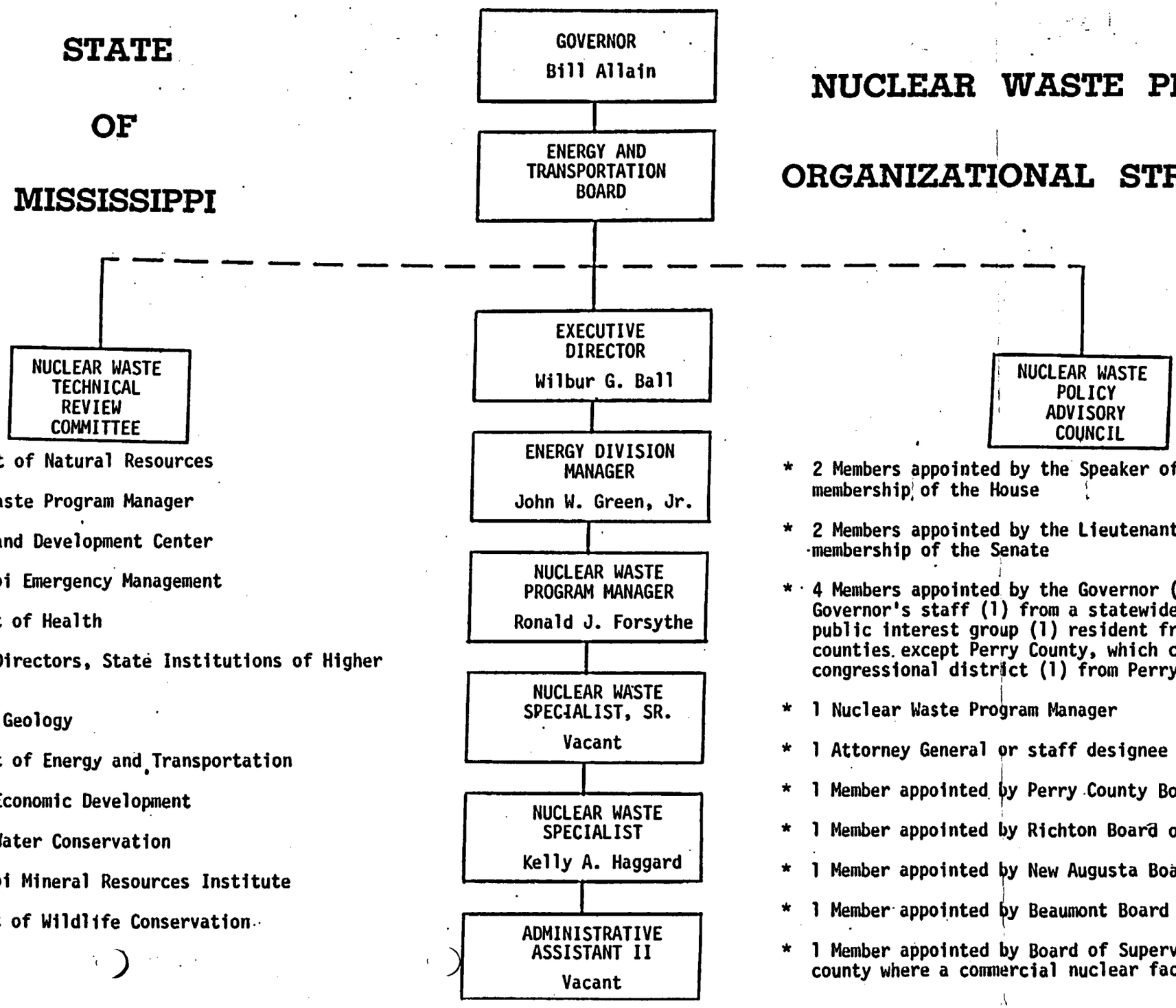
Kelly A. Haggard

Kelly A. Haggard
Nuclear Waste Specialist

KH:gg
Enclosures

STATE OF MISSISSIPPI

NUCLEAR WASTE PROGRAM ORGANIZATIONAL STRUCTURE



* Department of Natural Resources
* Nuclear Waste Program Manager
* Research and Development Center
* Mississippi Emergency Management
* Department of Health
* Board of Directors, State Institutions of Higher Learning
* Bureau of Geology
* Department of Energy and Transportation
* Board of Economic Development
* Soil and Water Conservation
* Mississippi Mineral Resources Institute
* Department of Wildlife Conservation

* 2 Members appointed by the Speaker of the House from membership of the House
* 2 Members appointed by the Lieutenant Governor from membership of the Senate
* 4 Members appointed by the Governor (1) from the Governor's staff (1) from a statewide, chartered, public interest group (1) resident from the various counties except Perry County, which comprise the 5th congressional district (1) from Perry County at large
* 1 Nuclear Waste Program Manager
* 1 Attorney General or staff designee (nonvoting)
* 1 Member appointed by Perry County Board of Supervisors
* 1 Member appointed by Richton Board of Alderman
* 1 Member appointed by New Augusta Board of Alderman
* 1 Member appointed by Beaumont Board of Alderman
* 1 Member appointed by Board of Supervisors of each county where a commercial nuclear facility is located

Duties of the Energy and Transportation Board

(1) The energy and transportation board shall serve as the initial agency in this state to be contacted by the federal department of energy or any other federal agency on any matter related to the long-term or temporary storage and/or permanent disposal of high-level radioactive waste or transuranic waste.

(2) The board shall serve as the initial agency in this state to receive any report, study, document, information or notification of proposed plans from the federal department of energy or any other federal agency on any matter related to the long-term or temporary storage and/or permanent disposal of high-level radioactive waste or transuranic waste. Notification of proposed plans include notification of proposals to conduct field work, on-site evaluation, on-site testing or any other related studies.

(3) The board shall disseminate or arrange with the federal department of energy or other federal agency to disseminate information received under subsection (2) of this section to the council, the committee, appropriate state agencies, appropriate local units of government and interested citizen groups.

(4) The board, in accordance with the recommendations and advice of the council and committee, shall respond the contacts made under subsection (1) of this section and information received under subsection (2) of this section if a response is appropriate. The board shall consult with the council, the committee, and with appropriate state agencies and local units of government. The council and the committee shall prepare written comments for use by the board in preparing its response.

(5) The board, in consultation with the council and the committee, is authorized to promulgate all rules and regulations and to establish all procedures necessary to enable it to discharge its duties and powers under this chapter and to carry out the purposes and objectives of this chapter. This authority shall include, but shall not be limited to, the establishment of procedures regarding the issuance of any permits the board may require for any type of testing to be conducted in connection with evaluating and selecting a site for the long-term or temporary storage and/or permanent disposal of high-level radioactive waste or transuranic waste.

Duties of the Nuclear Waste Policy Advisory Council

The responsibilities and duties of the council shall include but not be limited to, the following:

(a) To recommend state nuclear waste policy to the board and advise the board on any matters relating to state nuclear waste policy, including matters to be addressed in memorandums of understanding and other agreements with the federal department of energy.

(b) To recommend legislative proposals related to nuclear waste for consideration by the state legislature.

(c) To review all data, plans, conclusions and other documents produced by the federal department of energy, which relate to any phase of high-level nuclear waste programs or activities.

(d) To hear and evaluate public comment and make recommendations based thereon to the board and the state legislature.

(e) To advise the board on socio-economic issues which impact on affected areas as a result of activities proposed or conducted under the authority of this chapter.

(f) To critically review and comment on any socio-economic impact statements, studies, or lack of such, and transportation risks and concerns.

Duties of the Nuclear Waste Technical Review Committee

The responsibilities and duties of the committee shall include, but not be limited to, the following:

(a) To advise the board and council on all technical matters related to high-level nuclear waste activities within the state.

(b) To assist and advise the board and council in formulating studies, plans and other implementations of the state nuclear waste program.

(c) To assist in the implementation of directives of the board and council which relate to the state nuclear waste program.

(d) To perform a critical review of all data and documents produced by the federal department of energy which related to any phase of high-level nuclear waste activities and submit comments on same to the board.

(e) To provide technical information to the attorney general of the State of Mississippi and the state legislature which will assist their efforts to assure the health, safety, and welfare of the citizens of the State of Mississippi.

(f) To perform initial review of all applications for permits to conduct nuclear waste related activities within the state. Such review, to be completed within ninety (90) days, would determine if the application is in compliance with the requirements of this chapter. Upon completion of such review, the committee shall either:

(i) File the application with the board for its consideration, and thereafter, the board will deny, grant, or grant with certain conditions, requirements and stipulations a permit to conduct the applied for nuclear waste activities; or

(ii) Notify the applicant that the requirements of this chapter have not been met or satisfactorily completed and return the application for resubmittal. Such notification to applicants shall include a listing of deficiencies in complying with application procedures. Provided, however, the applicant may reapply by submitting the original application with amendments listing provisions with satisfy previous deficiencies in the application.

MEMBERS OF THE BOARD, COUNCIL, AND COMMITTEE

Energy and Transportation Board

Mr. Warren Hood
Chairman
Post Office Box 1200
Jackson, MS 39212

Mr. Tommy Munro
Vice Chairman
Post Office Drawer 247
Biloxi, MS 39533

Dr. William Giles
Route 3, Box 480
Starkville, MS 39759

Dr. George A. Owens
Tougaloo College
Tougaloo, MS 39174

Mr. Joe N. Bailey, Jr.
Post Office Box 251
Coffeeville, MS 38922

Nuclear Waste Policy Advisory Council

Mr. William A. Wilkerson
Chairman
State Tax Commission
Woolfolk Building
Jackson, MS 39201

Mr. Charles M. Deaton
Vice Chairman
Governor's Office
New Capitol Building
Jackson, MS 39201

Mr. Henry Stevens
Secretary
Post Office Box 528
Richton, MS 39476

Honorable P. R. (Rick) Lambert
Mississippi State Senate
Post Office Box 707
Hattiesburg, MS 39401

Honorable C. R. (Bob) Montgomery
Mississippi State Senate
360 North Liberty Street
Canton, MS 39046

Honorable E. Fred Dobbins
Mississippi House of Representatives
Post Office Box 1048
Leakesville, MS 39451

Honorable Dick Hall
Mississippi House of Representatives
Post Office Box 5382
Jackson, MS 39216

Mr. W. Mack Cameron
Attorney General's Office
5th Floor, Gartin Building
Jackson, MS 39202

Nuclear Waste Policy Advisory Council (Continued)

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Energy/Nuclear Waste Division
Mississippi Energy & Transportation Board
510 George Street
Jackson, MS 39202

Ms. Earnestine Johnston
Post Office Box 246
Beaumont, MS 39423

Mrs. Susan Purdy
League of Women Voters
94 Cottonwood Drive
Madison, MS 39110

Mr. Clyde Sellers
Post Office Box 686
Richton, MS 39476

Mr. Melvin T. Sims, Jr.
Post Office Drawer R
Richton, MS 39476

Mr. J. Y. Thomas
Route 1, Box 5
New Augusta, MS 39462

Mr. Kenneth Vaughan
Route 2
Utica, MS 39175

Nuclear Waste Technical Review Committee

Mr. Charlie L. Blalock
Chairman
Executive Director
Mississippi Department of Natural Resources
2380 Highway 80 West
Jackson, MS 39209
Telephone: 961-5099

ALTERNATE: Mr. Alvin R. Bicker, Jr.
Director
Bureau of Geology
Department of Natural Resources
2525 North West Street
Jackson, MS 39216
Telephone: 354-6228

Mr. James E. Maher
Vice Chairman
Director
Mississippi Emergency Management
1410 Riverside Drive
Jackson, MS 39216
Telephone: 352-9100

ALTERNATE: Mr. James P. Genesse
Same address as above

Mr. Ronald J. Forsythe
Secretary
Nuclear Waste Program Manager
Mississippi Energy & Transportation Board
510 George Street
Jackson, MS 39202
Telephone: 961-4733

ALTERNATE: Ms. Kelly Haggard
Same address as above

Mr. Wilbur G. Ball
Executive Director
Mississippi Energy & Transportation Board
510 George Street
Jackson, MS 39202
Telephone: 961-4733

ALTERNATE: Mr. John W. Green, Jr.
Same address as above

Mr. Alvin R. Bicker, Jr.
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Bureau of Geology
Department of Natural Resources
2525 North West Street
Jackson, MS 39216
Telephone: 354-6228

ALTERNATES: Mr. Michael Bograd
Mr. Curtis Stover
Same address as above

Dr. Alton B. Cobb
State Health Officer
Mississippi Department of Health
Underwood Building
Jackson, MS 39216
Telephone: 354-6646

ALTERNATE: Mr. Eddie Fuente
Same address as above

Mr. William T. Hackett, Jr.
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Board of Economic Development
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Telephone: 359-3499

ALTERNATE: Mr. Kenneth Goodwin
Research & Development Center
3825 Ridgewood Road
Jackson, MS 39211
Telephone: 982-6365

Dr. John R. Lovelace
Chairman, Board of Directors
State Institutions of Higher Learning
Mississippi Research & Development Center
3825 Ridgewood Road
Jackson, MS 39211
Telephone: 982-6611

ALTERNATES: Karen M. Yarbrough, Ph.D.
Vice President for Research & Extended Services
University of Southern MS
Southern Station Box 5116
Hattiesburg, MS 39406
Telephone: 266-5116

Dr. George Brunton
Chairman
Department of Geology
University of Mississippi
University, MS 38677
Telephone:

Dr. John I. Paulk
Mississippi State University
Post Office Drawer DE
Mississippi State, MS 39762
Telephone:

Dr. Margaret Wodetzki
Jackson State University
1400 Lynch Street
Jackson, MS 39217
Telephone:

Mr. Gale Martin
Executive Director
Soil & Water Conservation
4th Floor, Robert E. Lee Building
Jackson, MS 39201
Telephone: 359-1281

ALTERNATE: None given

Dr. Jim W. Meridith
Executive Director
Mississippi Research & Development Center
3825 Ridgewood Road
Jackson, MS 39211
Telephone: 982-6611

ALTERNATES: Dr. Ed Ranck
Dr. Phil Pepper
Research & Development
Center
3825 Ridgewood Road
Jackson, MS 39211
Telephone: 982-6408

Mr. Lon Strong
Executive Director
Mississippi Department of Wildlife
Conservation
2350 Highway 80 West
Jackson, MS 39209
Telephone: 961-5315

ALTERNATE: None given

Dr. James R. Woolsey
Director
Mississippi Mineral Resources Institute
Old Chemistry Building
University of Mississippi
University, MS 38677
Telephone: 232-7320

ALTERNATE: Mr. Tracy Lusk
MS Mineral Resources Institute
LaBauve Hall, Room 312
University of Mississippi
University, MS 38677
Telephone: 232-7722

Department of Energy and Transportation

300 Watkins Building, 510 George Street

Jackson, Mississippi 39202

601/961-4733

Mr. Wilbur G. Ball - Executive Director

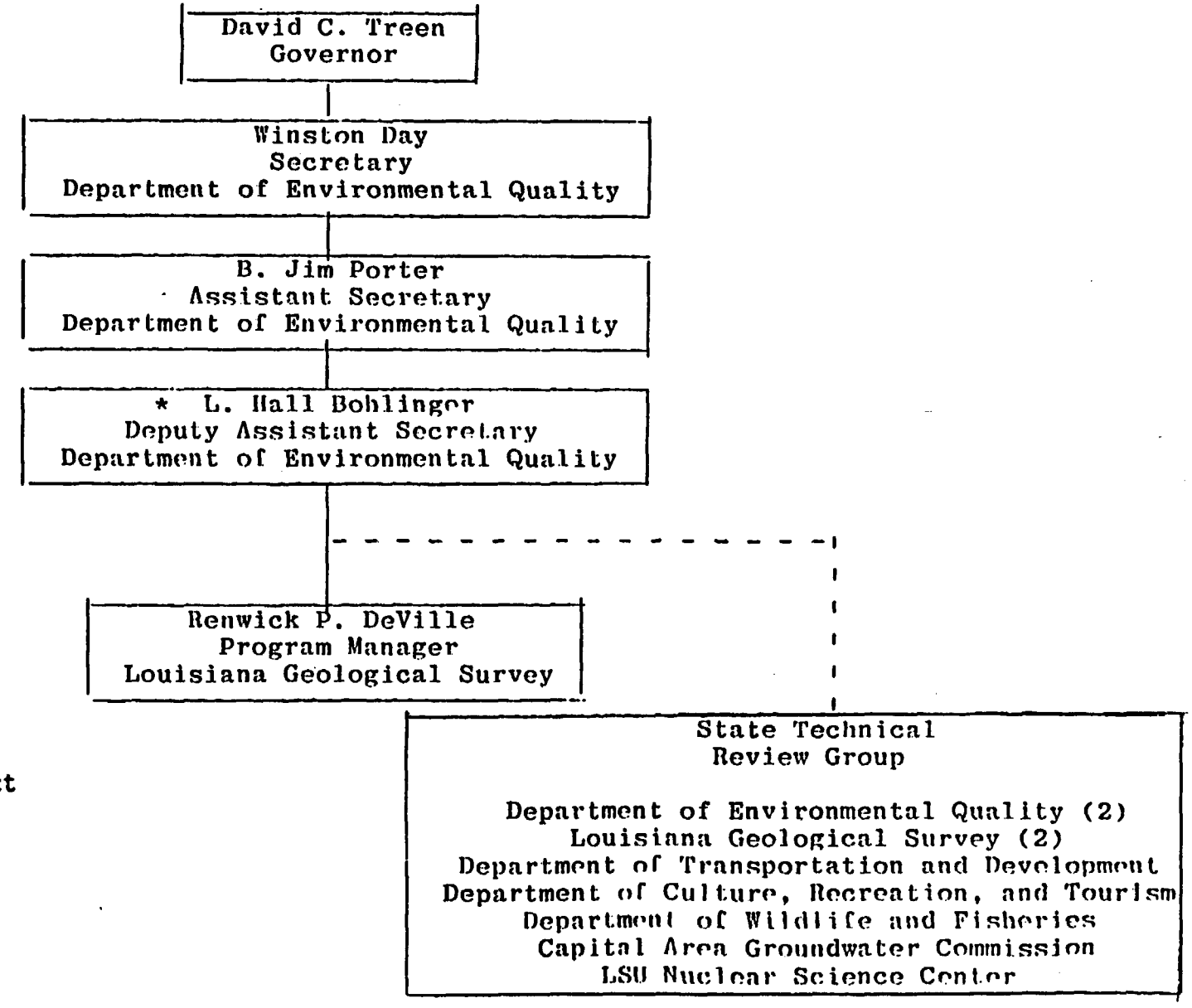
Mr. John W. Green, Jr. - Energy Division Director

Mr. Ronald J. Forsythe - Nuclear Waste Program Manager

Ms. Kelly A. Haggard - Nuclear Waste Specialist

LOUISIANA HIGH LEVEL NUCLEAR WASTE PROGRAM

ORGANIZATIONAL CHART
(AS OF 2/17/84)



*Official State Contact

NAME	AFFILIATION	PHONE	EXPERTISE
Winston Day	Department of Environmental Quality	504/342-1265	law
B. Jim Porter	Department of Environmental Quality	504/342-1265	nuclear science
L. Hall Bohlinger*	Department of Environmental Quality	504/342-1265	nuclear/environmental engineering
Renwick P. DeVille*	Louisiana Geological Survey	504/342-7460	socioeconomics, fiscal
Narendra Dave*	Department of Environmental Quality	504/342-1227	engineering geology
Charles G. Groat*	Louisiana Geological Survey	504/342-6754	geology
George Cramer*	Department of Transportation	504/342-1265	geology, transportatio
Eddie Martin*	Department of Culture, Recreation, and Tourism	504/925-3884	land use, tourism
"Blue" Watson*	Department of Wildlife and Fisheries	504/342-9254	wildlife, environment
A.N. Turcan*	Capital Area Groundwater Commission	504/924-7420	groundwater, hydrology
Bob McIlheney*	LSU Nuclear Science Center	504/388-2163	radiation effects

Note: * indicates Technical Review Group Member

TDMS PROGRESS

January-March

- SRP - Technical Data Base
  - Access codes arranged so that States/NRC can have direct access.
  - Initial data entries reviewed and modified to reflect most accurate status (over 250 items changed, contents checked by GPMs)
  - Developed protocols for laser printing handbook sections directly from the data base.
  - New records (3) designed to capture environmental and quality data
    - Air Quality
    - Background Sound Level
    - Methods Used & Uncertainty
  - Established Technical Steering Committee

- Technical Information
  - 3,000 ONWI records added to RIS since January 1 (Total = 82,900)
  - RTPs 14,000 + records added since January 1 (Total = 49,700)
  - Sample Inventory Management System data base structure implemented (demo only 3/23)
  - EA documentation tracking (status) implemented (Total = 900)
  - Controlled access library established (in support of EA) 850 documents

BIMONTHLY SALT STATE MEETING
SALT ENVIRONMENTAL ASSESSMENTS

R. WUNDERLICH

MARCH 29 AND 30, 1984

AGENDA ITEMS

OVERALL STATUS

PREFERRED SITE EVALUATION

DISQUALIFIER ANALYSIS

OVERALL STATUS

- PRELIMINARY DRAFT OF SEVEN SALT EAs PREPARED
- ANNOTATED TABLE OF CONTENTS REVISED
- RECOMMENDATION ON GULF COAST GEOHYDROLOGIC SETTING PREPARED
- IN-SCOPE ISSUES CONTINUE TO BE EVALUATED
- SOME SCHEDULE REVISIONS
- DATA SHEETS UNDER PREPARATION—SRPO REVIEW INITIATED
- DISQUALIFIER ANALYSES CONTINUING

ANNOTATED TABLE OF CONTENTS

Chapter		Title
Revised	Previous	
1	1	Summary of the Decision Process Leading to Site Nomination
2	2	Decision Process by Which the Site Proposed for Nomination Was Identified
3	3	The Site and the Repository
4	5	Expected Effects of Site Characterization Activities
5	6	Regional and Local Effects of Locating a Repository at the Site
6	4	Suitability of the Site for Site Characterization and for Development as a Repository
7	7	Comparative Evaluation of Sites

SUMMARY OF REVISIONS TO ANNOTATED TABLE OF CONTENTS

- DISQUALIFIER ANALYSIS MOVED TO REVISED CHAPTER 6 WITH ONLY A SUMMARY TABLE REMAINING IN CHAPTER 2
- SECTION 3.2 (THE REPOSITORY) MOVED TO THE BEGINNING OF REVISED CHAPTER 5
- CHAPTERS 4, 5, AND 6 RENUMBERED

SCHEDULE FOR DEVELOPMENT OF SEVEN SALT EAs*

PARTIAL DRAFTS OF SEVEN SALT EAs PREPARED

NEXT DRAFT DUE TO DOE-HQ ON MAY 9, 1984

FINAL DRAFT DUE TO DOE-HQ ON JUNE 1, 1984

*Based on March 23, 1984 Annotated Outline and November 18, 1983 Siting Guidelines

COMPARISON OF SALT SITES WITHIN GEOHYDROLOGIC SETTINGS

(1) PREFERRED SALT SITE METHODOLOGY

OBJECTIVE:

TO IDENTIFY A PREFERRED SITE IN EACH OF THE THREE SALT GEOHYDROLOGIC SETTINGS.

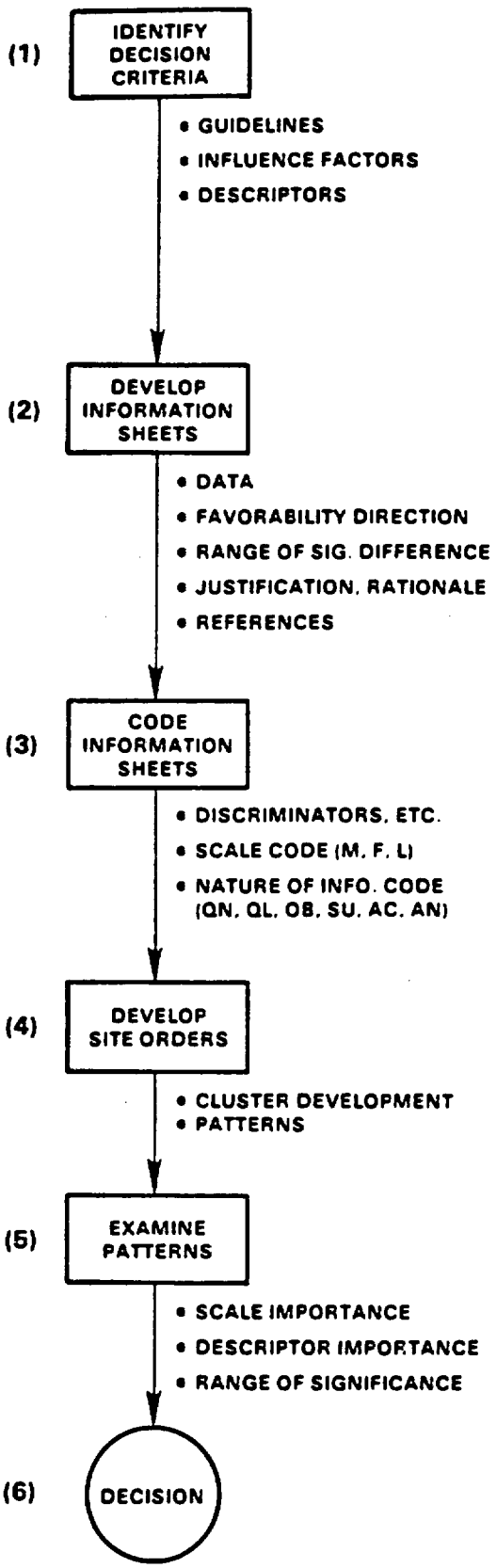
BASIS:

REQUIRED BY SECTION 960.3-2-2-2, SELECTION OF SITES WITHIN GEOHYDROLOGIC SETTINGS, OF THE SITING GUIDELINES.

METHODOLOGY CHARACTERISTICS

- COMPREHENSIVE (CONSISTENT WITH THE GUIDELINES)
- CREDIBLE (TRANSPARENT)
- REPLICABLE (PATTERN RECOGNITION)
- NUMERICAL SCALING EMPLOYED (-, 0, +)
- PARTICIPATORY (WELL DOCUMENTED FOR OUTSIDE REVIEW)
- CAPABLE OF USING WEIGHTING (POSTCLOSURE VERSUS PRECLOSURE)

METHODOLOGY APPLICATION: PROCESS



NO. OF DESCRIPTORS IN INFLUENCE FACTOR CATEGORIES

POSTCLOSURE (9)	NO. OF DESCRIPTORS
GEOHYDROLOGY	17
GEOCHEMISTRY	8
ROCK CHARACTERISTICS	4
CLIMATIC CHANGES	1
EROSION	1
DISSOLUTION	1
TECTONICS	4
HUMAN INTERFERENCE (HUMAN RESOURCES)	4
HUMAN INTERFERENCE (SITE OWNERSHIP & CONTROL)	3
SUBTOTAL	43
PRECLOSURE (11)	
POPULATION DENSITY & DISTRIBUTION	4
SITE OWNERSHIP & CONTROL	3
METEOROLOGY	3
OFFSITE INSTALLATIONS & OPERATIONS	2
ENVIRONMENTAL QUALITY	10
SOCIOECONOMIC IMPACTS	9
TRANSPORTATION	14
SURFACE CHARACTERISTICS	3
ROCK CHARACTERISTICS	7
HYDROLOGY	2
TECTONICS	3
SUBTOTAL	60
TOTAL	103

COMPARATIVE EVALUATION OF POTENTIAL REPOSITORY SITES
List of Influence Factors and Descriptors
Based on DOE November 18, 1983 Guidelines

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PA1	960.4-2-1	GEOHYDROLOGY	
	b1, b2		A. Expected ground-water travel time in the host rock
	b1		B. Prewaste ground-water travel time outside the host rock
			C. Deleted
	b2		D. Hydrologic processes
	b3, c3		E. Geohydrologic modeling
	b5(i)		F. Hydraulic conductivity in geohydrologic units
	b5(ii)		G. Hydraulic gradient within geohydrologic units
	b5(iii)		H. Potentiometric head difference between surrounding geohydrologic units
	b6(i)		I. Saturation level in and around host rock (unsaturated zone)
	b6(ii)		J. Depth of water table (unsaturated zone)
	b6(iii)		K. Presence of geohydrologic diversion units above host rock (unsaturated zone)
	b6(iv)		L. Host rock drainage (unsaturated zone)
	b6(v)		M. Precipitation and evapotranspiration (unsaturated zone)
	b7		N. Total dissolved solids concentration in ground water
	c1		O. Expected changes in hydraulic gradient
	c1		P. Expected changes in hydraulic conductivity
	c1		Q. Expected changes in ground-water flux
	c2		R. Presence of potable or irrigation ground water along flow paths

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PA2	960.4-2-2	GEOCHEMISTRY	
	b1		A. Nature and rates of geochemical processes
	b2		B. Geochemical conditions inhibiting radionuclide transport - inside repository
	b2		C. Geochemical conditions inhibiting radionuclide transport - outside repository
	b3		D. Stability of mineral assemblages under expected repository conditions
	b4		E. Expected dissolution of radionuclides in the repository
	b5		F. Retardation factors - outside the repository
	c2		G. Geochemical effects on sorption or rock strength
	c3		H. Ground water effects on engineered barrier system
PA3	960.4-2-3	ROCK CHARACTERISTICS	
	b1		A. Vertical thickness of host rock
	b1		B. Areal extent of host rock
	b2		C. Fracture healing characteristics of rock salt
			D. Deleted
			E. Deleted
			F. Deleted
	c2, c3		G. Effects of waste heat on waste isolation
PA4	960.4-2-4	CLIMATIC CHANGES	
	b1,b2,c1,c2		A. Effects of climatic change on waste isolation
PA5	960.4-2-5	EROSION	
	b1,b2,b3,c1,c2		A. Rate of erosion
PA6	960.4-2-6	DISSOLUTION	
	b,c		A. Host rock dissolution

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PA7	960.4-2-7	TECTONICS	
	b,c2,c5,c6		A. Tectonic processes that affect isolation
	c1		B. Tectonic and igneous activity in Quaternary
			C. Deleted
			D. Deleted
			E. Deleted
			F. Deleted
	c2,c3		G. Maximum ground acceleration
	c4		H. Magnitude and frequency of earthquakes
PA8	960.4-2-8-1	HUMAN INTERFERENCE (Natural Resources)	
	b, c1,c4		A. Presence of natural resources
			B. Deleted
	c2		C. Presence of mines
	c3		D. Deep drilling history
	c5		E. Human activities affecting ground-water flow
PA9	960.4-2-8-2	HUMAN INTERERENCE (Site ownership and control)	
	b		A. Present land ownership and control
	b		B. Surface and subsurface mineral rights
	c		C. Land acquisition

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PB1	960.5-2-1	POPULATION DENSITY AND DISTRIBUTION	
	b1		A. Proximity to highly populated areas
	b, c2		B. Proximity to places with > 1000 persons in a 1 mi^2 area
	b2		
	c1		C. Regional population density
			D. Population within site boundaries
PB2	960.5-2-2	SITE OWNERSHIP AND CONTROL	
	b		A. Present land ownership and control
	b		B. Surface and subsurface mineral and water rights
	c1		C. Land acquisition
PB3	960.5-2-3	METEOROLOGY	
	b		A. Dispersion of potential radioactive releases
	c1		B. Potential for public exposure
	c2		C. History of extreme weather
			D. Deleted
			E. Deleted
			F. Deleted
			G. Deleted
			H. Deleted
			I. Deleted
			J. Deleted
PB4	960.5-2-4	OFFSITE INSTALLATIONS AND OPERATIONS	
	b,c2		A. Offsite nuclear facilities
	c1		B. Presence of nearby hazardous installations or operations

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PB5	960.5-2-5	ENVIRONMENTAL QUALITY	
	b1,c1		A. Anticipated ability to comply with applicable environmental requirements
	b1		B. Air quality
	b1,b2		C. Aesthetics
	b1,b2		D. Noise
	b2		E. Access corridors
	b1,b2		F. Water quality
	c3		G. Dedicated Federal lands
	c4		H. State park land
	c5		I. Native American or cultural resources
	c6		J. Threatened or endangered species' habitat
PB6	960.5-2-6	SOCIOECONOMIC IMPACTS	
	a		A. Increased resource competition
			B. Deleted
	b1,c1		C. Housing and related services
	b2,c2		D. Adequacy of local labor force
	b3		E. Potential net increases in local employment
	b3		F. Potential net increases in local business sales
	b3		G. Potential increases in local government revenues
	b4,c4		H. Potential disruptions to the regional economic base
	c3		I. Water limitations on future development
	a		J. Potential for social problems

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
PB7	960.5-2-7	TRANSPORTATION	
	b1(i,iii),c1,c2		A. Access routes: construction cost
	b1(ii),c4		B. Federal condemnation for land for access routes
	b1(v)		C. Access route infringement on local cities/towns
	b2,c3		D. Proximity to adequate existing highways/ railways
	b3,c3		E. Proximity to national transportation system
	b4		F. Railroad interchanges
	b5,c4		G. Transportation life-cycle costs
	b5,c2,c4		H. Waste transportation risks
	b6		I. Regional waste carriers
	b7		J. Adoption of Federal transportation regulations
	b8		K. State and local transportation accident response plans
	b9		L. Delays caused by weather
	c4		M. Local environmental impact
			N. Enactment of state or local laws in governing high-level nuclear waste transportation
PB8	960.5-2-8	SURFACE CHARACTERISTICS	
	b1		A. Terrain with low relief
	c, 960.5-2-10		B. Potential flooding of surface and underground facilities
	b1,b2		
	b2		C. Drainage of site
PB9	960.5-2-9	ROCK CHARACTERISTICS	
	b1,c1		A. Vertical thickness of host rock
	b1,c1		B. Areal extent of host rock
	b2,c2		C. Extent of required artificial support for underground openings

Current Classification	Guideline Paragraph Reference	Influence Factor	Descriptor
	c3		D. Extent of maintenance of underground openings
	c4		E. Retrieval difficulty and hazards
	c5		F. Hazards due to anomalies in host rock
	b2,c2		G. Host rock discontinuities above and below repository openings
PB10	960.5-2-10	HYDROLOGY	
	b1		A. Presence of aquifers between host rock and land surface
	c		B. Complexity of required engineering ground-water control measures
PB11	960.5-2-11	TECTONICS	
	b,c2		A. Expected preclosure impact of earthquakes
	c1		B. Active faulting
	c3		C. Maximum credible earthquake

DEVELOPMENT OF SITE ORDER

BASED ON GUIDELINES, PLAN OF ANALYSIS IS:

IN DECREASING ORDER OF IMPORTANCE

POSTCLOSURE CLUSTERS

(1) CHARACTERISTICS AND PROCESSES THAT AFFECT EXPECTED REPOSITORY PERFORMANCE

(2) PROCESSES AND EVENTS THAT COULD BE POTENTIALLY DISRUPTIVE TO EXPECTED REPOSITORY PERFORMANCE

PRECLOSURE CLUSTERS

(1) PRECLOSURE RADIOLOGICAL SAFETY

(2) ENVIRONMENT, SOCIOECONOMICS, AND TRANSPORTATION

(3) EASE AND COST OF CONSTRUCTION, OPERATION, AND CLOSURE

(CONTINUED)

DEVELOPMENT OF SITE ORDER

$$\text{SCALE ORDER OF EACH SITE IN EACH CLUSTER} = \sum M - \sum L$$

PRELIMINARY ASSUMPTIONS:

- EQUAL IMPORTANCE AMONG INFLUENCE FACTORS WITHIN CLUSTERS
- EQUAL IMPORTANCE AMONG DESCRIPTORS WITHIN INFLUENCE FACTORS IN THE SAME CLUSTER
- EQUAL SIGNIFICANCE OF M's AND L's BETWEEN DESCRIPTORS IN THE SAME INFLUENCE FACTOR, BETWEEN DESCRIPTORS WITHIN SAME INFLUENCE FACTOR, AND BETWEEN DESCRIPTORS OF DIFFERENT CLUSTERS
- INDEPENDENT DESCRIPTORS

DEVELOPMENT OF SITE ORDER

FOUNDATIONS OF SITE SELECTION PROCEDURE

- IDENTIFY DIFFERENCES BETWEEN SITES IN THE SAME GEOHYDROLOGIC SETTING
- MAXIMIZE CHANCES OF SELECTING SUPERIOR SITE IN A GEOHYDROLOGIC SETTING
- MINIMIZE CHANCES OF SELECTING INFERIOR SITE IN A GEOHYDROLOGIC SETTING

PATTERN EXAMINATION

(1) DECIDE IF ALL INFLUENCE FACTORS IN A CLUSTER HAVE EQUAL IMPORTANCE

(2) DECIDE IF ALL DESCRIPTORS IN AN INFLUENCE FACTOR IN A CLUSTER HAVE EQUAL IMPORTANCE

(3) DECIDE IF THE SCALES (M, L) ASSIGNED TO TWO OR MORE DESCRIPTORS (FROM TWO OR MORE CLUSTERS WITH REVERSE ORDERS) HAVE EQUAL SIGNIFICANCE

(4) EXAMINE "NATURE OF INFORMATION" TO DETERMINE RELIABILITY OF SCALES

(5) READ DATA SHEET(S) COMPLETELY

New Copy
13Feb84

HEADINGS FOR CHAPTER 3, ENVIRONMENTAL ASSESSMENTS

Chapter 3 THE SITE AND THE REPOSITORY

3.1 THE SITE

3.1.1 Location, General Appearance and Terrain, and Present Uses

3.1.2 Geologic Conditions

3.1.2.1 Regional Geology

3.1.2.2 Geomorphology

Physiography

Erosion Processes

Paleoclimate

3.1.2.3 Stratigraphy

Regional

Site Specific

3.1.2.4 Paleonotology

3.1.2.5 Structure and Tectonics

Faulting

Seismicity

Igneous activity

Uplift, subsidence, and folding

Diapir development

Dissolution

3.1.2.6 Rock Characteristics

Geomechanical Properties

Thermal properties

Natural radiation

3.1.2.7 Geochemistry

3.1.2.8 Mineral Resources

Hydrocarbon resources

Other resources

3.1.2.9 Soils

3.1.3 Hydrologic Conditions

3.1.3.1 Surface Water

Hydrology

Surface water quality

Flooding

3.1.3.2 Ground Water

Hydrology and modeling

Ground water quality

3.1.3.3 Water Supply

3.1.4 Environmental Setting

3.1.4.1 Land Use

Existing land use patterns (e.g. agriculture, industry, private and commercial development, recreation, and dedicated lands).

Land ownership

3.1.4.2 Terrestrial and Aquatic Ecosystems

Terrestrial ecosystems

Flora.

Fauna.

Aquatic ecosystems

Wetlands.

Riparian habitats.

Threatened and Endangered Species

3.1.4.3 Air Quality and Weather Conditions

Existing air quality

Dispersion and mixing heights

Temperature

Precipitation

Winds

Severe weather

3.1.4.4 Noise

3.1.4.5 Aesthetic Resources

3.1.4.6 Archeological, Cultural, and Historical Resources

Prehistoric and historical background

Archaeological resources

Cultural resources

Historical resources

3.1.4.7 Radiological Background (New 4th Level)

3.1.5 Transportation and Utilities

3.1.5.1 Roads (New 4th Level)

Pattern (local and regional roads)

Traffic capacity

Special issues (congested areas, bridges, route structures, etc.)

3.1.5.2 Railroads (New 4th Level)

Pattern (local and regional roads)

Traffic capacity

Special issues (congested areas, bridges, route structures, etc.)

3.1.5.3 Airports (New 4th Level)

3.1.5.4 Waterways (New 4th Level)

3.1.5.5 Utilities (New 4th Level)

Electric

Gas

Water supply and sewage treatment

3.1.6 Socioeconomic Conditions

3.1.6.1 Population Density and Distribution

Population density

Population distribution

Population growth

Population characteristics

3.1.6.2 Economic Conditions

Employment

Unemployment

Per capita income trends

Other economic activities (tourism, economic activity on Indian lands, special issues, etc.)

3.1.6.3 Community Services

Housing

Education

Health services

Recreation

Protective services

Water supply

Sewage treatment and solid waste disposal

3.1.6.4 Social Conditions

Community lifestyle and heritage

Social indicators

Social well-being

3.1.6.5 Fiscal Conditions and Government Structure

Fiscal conditions

Government structure

3.2. THE REPOSITORY

3.2.1 Surface Facilities

3.2.2 Subsurface Facilities

3.2.3 Repository Operations

—will be noticed in FR
—will be 60-day comm. period

MISSION PLAN BRIEFING

March 29, 1984

Ralph Stein
Acting Deputy Director

Office of Geologic Repository Deployment
Office of Civilian Radioactive Waste Management

3/29/84

MISSION PLAN

OUTLINE

- REQUIREMENTS OF THE ACT
- WORK-TO-DATE
- EXPECTED CONTENT OF DRAFT MISSION PLAN
  - — SCHEDULE
  - — KEY ISSUES
- CONCLUSIONS

3/29/84

MISSION PLAN

REQUIREMENTS OF THE ACT

- REQUIRED BY SECTION 301 OF NUCLEAR WASTE POLICY ACT
- ACT SPECIFIES 11 ITEMS FOR INCLUSION IN MISSION PLAN
- ACT REQUIRES DRAFT BY APRIL 7, 1984, AND FINAL BY JUNE 7, 1984
- DOE APPROACH IS TO HAVE MISSION PLAN NOT ONLY COVER 11 ITEMS IN THE ACT, BUT TO DESCRIBE THE GENERAL STRATEGY AND PLANS FOR ALL ACTIVITIES UNDER OFFICE OF COMMERCIAL RADIOACTIVE WASTE MANAGEMENT
  - — VOLUME I COVERS STRATEGY AND PLANS
  - — VOLUME II ADDRESSES THE 11 SPECIFIC ITEMS

draft won't be available til mid-late April

3/29/84

MISSION PLAN

WORK-TO-DATE

- IN DECEMBER 1983, AN INFORMAL DRAFT WAS CIRCULATED FOR REVIEW BY STATES, CONGRESS, OTHER FEDERAL AGENCIES, AND SOME INTERESTED PARTIES
- ABOUT 40 COMMENT LETTERS RECEIVED WITH SEVERAL HUNDRED SPECIFIC COMMENTS
  - WIDE RANGE OF COMMENTS
    - SCHEDULE TOO SLOW
    - SCHEDULE TOO FAST
    - NOT ENOUGH DETAIL
    - DOES NOT MAKE DECISIONS
    - REPEATS ACT
- MANY COMMENTS HAVE BEEN INCORPORATED IN CURRENT DRAFT WHICH IS BEING PREPARED FOR REVIEW AND CONCURRENCE

3/29/84

DRAFT

MISSION PLAN

EXPECTED CONTENT OF DRAFT MISSION PLAN

- GOAL IS TO HAVE DISPOSAL CAPABILITY BY 1998 WITH A TECHNICALLY SOUND AND INSTITUTIONALLY CREDIBLE PROGRAM
- RANGE OF DURATIONS EXISTS FOR ALMOST ALL ACTIVITIES LEADING TO REPOSITORY OPERATIONS
- MORE SCHEDULE OPTIONS WILL BE CONSIDERED:
  - MEET MILESTONES IN ACT (3/88 FOR SITE RECOMMENDATION AND 1/98 FOR REPOSITORY OPERATIONS)
  - RECOMMEND SITE BY 6/90, THEN
    - RECEIVE ONE FULL CONSTRUCTION AUTHORIZATION, AND BUILD THE REPOSITORY IN 2 STAGES
    - RECEIVE ONE FULL CONSTRUCTION AUTHORIZATION, AND BUILD THE REPOSITORY IN ONE STAGE
    - RECEIVE TWO CONSTRUCTION AUTHORIZATIONS (THE FIRST IS FOR SURFACE FACILITIES AND THE SECOND IS FOR SUBSURFACE FACILITIES), AND CONSTRUCT EACH AS SOON AS POSSIBLE

3/29/84

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MISSION PLAN

PRE-CONSTRUCTION REPOSITORY SCHEDULE

- ISSUE SITING GUIDELINES 6/84
- ISSUE DRAFT EAs 8/84
- ISSUE EAs, NOMINATE AND RECOMMEND 12/84
- PRESIDENT APPROVES SITES 2/85
- CONSTRUCTION SHAFTS BEGIN IN 1985 AND 1986
- ISSUE DEIS 9/89
- ISSUE FEIS 3/90
- RECOMMEND SITE TO CONGRESS 6/90
- SUBMIT CONSTRUCTION AUTHORIZATION APPLICATION TO NRC 8/90

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MISSION PLAN

CONSTRUCTION SCHEDULE

based on 2 shafts

- TWO STAGE CONSTRUCTION
  - — RECEIVE FULL NRC CONSTRUCTION AUTHORIZATION 8/93
  - — DO STAGE 1 CONSTRUCTION AND TESTING (200-400 MTU/YR) 8/93 — 1/98
  - — DO STAGE 2 CONSTRUCTION AND TESTING (1800-3000 MTU/YR) 8/93 — 2/2001
- ONE STAGE CONSTRUCTION
  - — RECEIVE FULL NRC CONSTRUCTION AUTHORIZATION 8/93
  - — DO CONSTRUCTION AND TESTING (1800-3000 MTU/YR) 6/99
- TWO STEP NRC CONSTRUCTION AUTHORIZATION APPLICATION (CAA)
  - — SUBMIT CAA-1 TO NRC FOR SURFACE FACILITIES 3/89
  - — SUBMIT CAA-2 TO NRC FOR SUBSURFACE FACILITIES 8/90
  - — RECEIVE CA-1 3/92
  - — DO CONSTRUCTION AND TESTING OF SURFACE FACILITIES 3/92 — 1/98
  - — RECEIVE CA-2 8/93
  - — DO CONSTRUCTION AND TESTING OF SUBSURFACE FACILITIES 8/93 — 1/98

MISSION PLAN

ITEMS REQUIRED BY THE ACT

- IDENTIFICATION OF INFORMATION NEEDS
- PLANS FOR ACQUIRING INFORMATION NEEDS
- EVALUATION OF FINANCIAL, POLITICAL, LEGAL, OR INSTITUTIONAL IMPEDIMENTS
- TEST AND EVALUATION FACILITY
- STATUS OF R&D WITH RESPECT TO INFORMATION REQUIREMENTS
- GENERAL SITING GUIDELINES
- DESCRIPTION OF SITE CHARACTERIZATION ACTIVITIES
- DATA ON WASTE SOLIDIFICATION AND WASTE PACKAGE DEVELOPMENT
- ESTIMATE OF REPOSITORY CAPACITIES AND CONSTRUCTION SCHEDULE
- COST ESTIMATES
- IDENTIFICATION OF ADVERSE SOCIOECONOMIC IMPACTS

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MISSION PLAN

VOLUME II CHAPTERS

CHAPTER 1 — INFORMATION NEEDS

- USES A HIERARCHY RELATED TO THE GUIDELINES
- KEY ISSUES
- ISSUES
- INFORMATION NEEDS

CHAPTER 2 — PLANS FOR OBTAINING INFORMATION

- DESCRIBED BY WORK BREAKDOWN STRUCTURE (SITE, REPOSITORY, WASTE PACKAGE, ETC)
- INCLUDES INDEX OF INFORMATION NEEDS AND PLANS

CHAPTER 3 — FINANCIAL, POLITICAL, LEGAL AND INSTITUTIONAL IMPEDIMENTS

- DESCRIBES 16 IMPEDIMENTS
- INCLUDES DEPARTMENTS PROPOSED RESOLUTION

CHAPTER 4 — TEST AND EVALUATION FACILITY

CHAPTER 5 — RESULTS OF R&D ON VARIOUS MEDIA

- DESCRIBED IN TERMS OF GEOLOGY, HYDROLOGY, GEOCHEMISTRY, AND GEOMECHANICS

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MISSION PLAN

VOLUME II CHAPTERS (Continued)

CHAPTER 6 — SITING GUIDELINES

CHAPTER 7 — SITE CHARACTERIZATION

- DESCRIBES SITES AND GENERAL AREAS OF CHARACTERIZATION
- DESCRIBES PLANS RELATING TO CONTROL OF ADVERSE IMPACTS AND DECOMMISSIONING OF SITES

CHAPTER 8 — R&D PLANS FOR WASTE PACKAGES

- DESCRIBES PACKAGES USED FOR EACH ROCK TYPE

CHAPTER 9 — WASTE GENERATION RATES AND REPOSITORY SCHEDULES

- INCLUDES WASTE PROJECTIONS, CONSTRUCTION SCHEDULES AND WASTE ACCEPTANCE RATES

CHAPTER 10 — COSTS

- DESCRIBES DEVELOPMENT AND ENGINEERING COSTS
- ALSO INCLUDES CONSTRUCTION, OPERATION AND DECOMMISSIONING COSTS
- INCLUDES TRANSPORTATION COSTS

CHAPTER 11 — SOCIOECONOMIC IMPACTS

- DESCRIBES IMPACTS ON DEMOGRAPHY, ECONOMICS, COMMUNITY SERVICES AND SOCIETY

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MISSION PLAN

KEY ISSUES

- NEED FOR 3 SUITABLE SITES — WHEN
- ABILITY TO MEET SCHEDULE WITH BUDGET CONSTRAINTS
- USE OF EXPLORATORY SHAFTS FOR REPOSITORY CONSTRUCTION AND OPERATIONS
- ALTERNATIVE LICENSING PROCEDURES WITH NRC
- ROLE OF MRS FACILITY

3/29/84

MISSION PLAN

CONCLUSIONS

- MORE DETAIL WILL BE AVAILABLE PARTICULARLY IN VOLUME II
- MORE SCHEDULE OPTIONS WILL BE CONSIDERED
- MISSION PLAN WILL NOT REPLACE ENVIRONMENTAL ASSESSMENTS AND SITE CHARACTERIZATION PLANS AS THE MAJOR DOCUMENTS WHICH PROVIDE TECHNICAL DETAILS (SCPs AND EAs) AND THE BASIS FOR THE RECOMMENDATION OF SITES FOR CHARACTERIZATION (EAs)
- SCHEDULE IS VERY IMPORTANT, BUT NOT AT THE EXPENSE OF TECHNICAL OR INSTITUTIONAL ASPECTS OF THE PROGRAM

Mission Plan
Vol. II

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UNREVIEWED AND UNEDITED DRAFT

Chapter 3

POTENTIAL FINANCIAL, POLITICAL, LEGAL, AND INSTITUTIONAL PROBLEMS

> *An evaluation of financial, political, legal, or institutional problems that may impede the implementation of this Act, the plans of the Secretary to resolve such problems, and recommendations for any necessary legislation to resolve such problems.*
>
> —Nuclear Waste Policy Act, Section 301(a)(3)

This chapter discusses potential financial, political, legal, and institutional problems that may impede the implementation of the Act. The Department has identified the following potential problems:

- Acquiring access to or control of land
- State and local permit procedures
- State agency "start-up" time requirements
- State or local laws that are incompatible with DOE responsibilities
- Litigation by States, tribes, or other parties
- Failure to reach or implement a consultation and cooperation agreement
- Public apprehension and resultant public opposition
- Conflict over State representation of local interests
- Conflict between a State's executive and legislative branches
- State or tribal notice of disapproval of a site selected for a repository
- Timing of impact mitigation grants
- Transportation of waste through non-repository States
- Coordination with other Federal agencies
- Interpretation of Congressional intent
- Financial uncertainty
- Institutions to maintain long-term control and integrity of repository

PUBLIC INFORMATION UPDATE

GOVERNMENT LIAISON AND PUBLIC OUTREACH OFFICE

MARCH 29, 1984

ONWI
Office of Nuclear Waste Isolation
BATTELLE Project Management Division

MAJOR NEW OUTREACH ACTIVITIES

- PRE-ENVIRONMENTAL ASSESSMENT INSTITUTIONAL ACTIVITIES
- PUBLIC PARTICIPATION PLAN
- INFORMATION EXCHANGES--STATUS
- LOCAL INFORMATION OFFICES--UPDATE

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BATTELLE Project Management Division

PRE-EA INSTITUTIONAL ACTIVITIES

- COMMUNITY WORKSHOPS
  - DESIGNED TO PREPARE PEOPLE TO REVIEW EAs AND PARTICIPATE IN EA PROCESS
  - PURPOSE: DESCRIBE REQUIREMENTS FOR EA, ROLE IN DECISION PROCESS, CHAPTER OUTLINES
  - HOW TO PARTICIPATE EFFECTIVELY
  - SCHEDULED TWO OR THREE WEEKS BEFORE RELEASE OF THE EAs
  - USE COMBINATION OF GENERAL SESSION AND ROUNDTABLE FORMAT
- MEDIA SEMINARS
  - TIMED PRIOR TO COMMUNITY WORKSHOPS
  - PURPOSE TO AID MEDIA IN PUTTING EA PROCESS IN CONTEXT
  - SHOULD RESULT IN MEANINGFUL ADVANCE COVERAGE FOR WORKSHOPS
  - PROVIDE BACKGROUND IN HANDLING STORIES ON EAs

PUBLIC PARTICIPATION PLAN

- PARTICIPATION VS. INFORMATION
- TO BE DEVELOPED FOR USE FROM JULY, 1984, THROUGH 1987
- PURPOSE: TO ENCOURAGE PEOPLE TO BECOME INVOLVED, INTERACT WITH OTHERS, EFFECTIVELY CONTRIBUTE TO REVIEW AND DECISION PROCESS, AND PROVIDE MEANINGFUL INPUT.
- TO BE PREPARED BY NONPARTISAN COMPANY RECOGNIZED IN AREA OF PUBLIC POLICY AND CITIZEN ACTIVISM
- TO BE IMPLEMENTED WITH CONTINUING ASSISTANCE OF PLAN ORIGINATOR
- WILL HAVE GENERAL ACTIVITIES AND SPECIFIC PROPOSALS TAILORED FOR EACH STATE
- PARTICIPATION PLAN WOULD INCLUDE WORKSHOPS, PLANNING MEETINGS TO RECOMMEND FUTURE ACTIVITIES, CRITIQUES OF DOE PUBLIC INFORMATION, ACCESS TO REGULAR INFORMATION, RECOMMENDATIONS FOR MORE INTENSIVE OUTREACH THROUGH SCHOOLS AND ORGANIZED GROUPS, COORDINATED LOCAL OUTREACH ACTIVITIES
- STATE AND LOCAL LEADERS WILL BE ASKED FOR SUGGESTIONS

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INFORMATION EXCHANGES

- FIRST ROUND COMPLETED--RESPONDING TO ISSUES FROM LAST SPRING'S HEARINGS
- SUBSEQUENT EXCHANGES DEVELOPED WITH LOCAL INPUT
- SECOND ROUND HELD IN UTAH FEBRUARY 29-MARCH 1
- NEXT SCHEDULED EXCHANGE IN SALT LAKE CITY MAY 5
- MISSISSIPPI OFFICIALS ASKING LOCAL PEOPLE TO SUBMIT LIST OF TOPICS
- LOUISIANA OFFICIALS WILLING TO ATTEND PLANNING SESSION
- PLANNING SESSION SCHEDULED IN TEXAS APRIL 3
- UTAH PLANNING GROUP DREW VARIETY OF VIEWPOINTS (MAYORS, "PRO" & "ANTI", LEAGUE, DEVELOPMENT AND TOURISM PEOPLE)

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STATUS OF LOCAL INFORMATION OFFICES

- OPERATED BY BATTELLE FOR DOE TO PROVIDE REGULAR ACCESS TO INFORMATION
- UTAH - TWO (MOAB & MONTICELLO) IN OPERATION 18 MONTHS, 12 MONTHS BY BATTELLE
- LOUISIANA - ONE (MINDEN), LEASE SIGNED, ADVERTISING IN PAPER FOR PART TIME STAFF PERSON . . . EXPECT TO BE OPEN IN A MONTH . . . NEWS RELEASE ABOUT OFFICE OPENING MAILED
- MISSISSIPPI - ONE (RICHTON), SPACE IDENTIFIED, LEASE GOING TO OWNER NEXT WEEK
- TEXAS - PLAN TO BEGIN SURVEY OF AVAILABLE SPACE IN APRIL

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BATTELLE Project Management Division

OTHER PLANS FOR REMAINDER OF FY84

- ASSIST AT EA PUBLIC HEARINGS
- CONTINUE BIMONTHLY STATE MEETINGS
- FINALIZE SITE-SPECIFIC AV, EXHIBIT, AND PRINTED MATERIALS
- DOCUMENT EVENTS ON VIDEOTAPE
- CONTINUE INFORMATION MEETINGS, WITH STATE/LOCAL INVOLVEMENT
- EXHIBIT AT CONFERENCES IN SALT STATES
- CONTINUE DISTRIBUTION OF TECHNICAL INFORMATION

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OTHER PUBLIC INFORMATION ACTIVITIES

- STATE INVOLVEMENT
  - BIMONTHLY MEETINGS--5 HELD
  - EA WORKSHOPS, PROPOSED INTERACTION
  - PARTICIPATION IN PUBLIC MEETINGS INVITED
- PUBLIC OUTREACH ACTIVITIES
  - SPEAKERS BUREAU
  - LIBRARY SERVICES
- RESPONSE TO ISSUES FROM SPRING '83 EA/SCP HEARINGS
  - DISTRIBUTION OF TRANSCRIPTS
  - ISSUES ANALYSIS AND SUMMARY (ONWI-505 & 519)
  - FIRST ROUND OF INFORMATION EXCHANGES

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OTHER PUBLIC INFORMATION ACTIVITIES

- PUBLIC INFORMATION MATERIALS

  PUBLICATIONS

  - HANDOUTS
  - TOPICAL FACT SHEETS

  EXHIBITS

  - INFORMATION OFFICES
  - SALT STATE/REGIONAL EVENTS
  - POSTERS FOR INFORMATION EXCHANGES AND SPEAKERS

  AUDIOVISUAL MATERIALS

  - SLIDE SHOWS FOR INFORMATION OFFICES
  - SLIDE FILE FOR SPEAKERS, MEETINGS, DOCUMENTATION
  - VIDEOTAPE DOCUMENTATION

- TECHNICAL INFORMATION
  - TECHNICAL REPORTS PRODUCTION AND DISTRIBUTION
  - MAILING LIST MAINTENANCE

Fm Barry Gale
DOE
3/29/84

OCRWM/State Financial Assistance Guidelines Policies

- June 24, 1983 grants guidelines issued

  Purpose:

  --establish single framework within which DOE project offices could respond to requests and negotiate and award grants
  --ensure equity among states and tribes
  --ensure activities funded are consistent with and justified by the NWPA

- Four grant phases delineated

Phase I	Prenotification
Phase II	Notification
Phase III	Characterization
Phase IV	Construction

- June 24 guidelines focus on Phases I and II

- Salt states in Phase II

  --grants for this phase authorized by Sections 116(c)(1)(A) and 118(b)(1) of the NWPA

- June 24 guidelines delineate areas of permissible funding for Phase II grants. Examples:

  --activities leading to C&C agreements
  --review and comment (Siting Guidelines, EAs, SCPs)
  --public information
  --coordination activities
  --analyses and studies

- Overall goal of grants: maximize state and tribe involvement in repository program and enable state and tribes to participate in C&C activities and negotiations

o Clear justification for all grant proposals is required

--OMB
--GAO
--utility industry
--consumer groups

o Justification is determined by:

--authorization in NWPA and June 24 guidelines
--germaneness to program

o Project office lead

--proposals evaluated in consultation with HQ
--field has grant-making authority
--HQ, with close field assistance, provides overall policy guidance

NEXT STEPS

o Development of Phase III, site characterization, guidelines

o GILOT
(grants in lieu of taxes)

JUN 2 4 1983

INTERNAL GENERAL GUIDELINES FOR IMPLEMENTING EARLY FINANCIAL ASSISTANCE PROGRAMS UNDER SECTIONS 116 AND 118 OF THE NUCLEAR WASTE POLICY ACT OF 1982

1.0 PURPOSE

The purpose of the financial assistance program under the Nuclear Waste Policy Act of 1982 (the Act) is to ensure that eligible states and affected Indian tribes have sufficient financial resources to participate in the repository development process as mandated by the Act. DOE is fully committed to the objective of ensuring timely and effective state and tribal participation and will use the financial assistance provisions of the Act as one means of assuring that states and tribes have adequate resources to meet this goal.

These are general guidelines. Because the needs and plans of the states and tribes involved in the different projects may vary substantially, individual DOE project offices will be required to deal with individual requests on a case-by-case basis. The purpose of the general guidance provided here is to assist DOE project offices by:

- o establishing a single framework within which DOE field offices can respond to requests and negotiate and award grants;
- o ensuring that all states and Indian tribes involved in the process are treated as equitably as possible; and
- o ensuring that activities funded by the grants are consistent with the Act.

The purpose of these guidelines is to assist DOE in awarding grants to states and tribes in the early phases of the repository development process, prior to negotiation of the formal DOE/state/tribe agreements. Grants made to states or tribes in later phases of the process, such as when sites have been approved for characterization by the President or have received a construction authorization from the Nuclear Regulatory Commission, are expected to flow logically from the consultation and cooperation (C&C) agreements negotiated with those states or tribes. Where they do not, additional guidance will be provided.

2.0 BACKGROUND

The financial assistance provisions of the Act relating to repository development are contained in Sections 116 and 118. Section 116 contains provisions applicable to the states and Section 118 contains similar provisions applicable to affected Indian tribes.

For purposes of this guidance, which repository development process has been divided into four phases: (I) prenotification; (II) notification/nomination; (III) characterization; and (IV) construction.

Phase I. States or tribes which have not been formally notified by DOE as having "potentially acceptable" sites but in which exploratory/screening work is taking place. The Department has determined that grants may be awarded to these states or tribes prior to the time they have been notified as having potentially acceptable sites. These are referred to as "prenotification" or Phase I states or tribes and are the states/tribes which may at some future date be affected by sites under consideration for the second repository. The 17 "granite" states fall within this category.

Phase II. States or affected tribes which have been notified under Section 116(a) of the Act that they have "potentially acceptable site" or sites for a repository. These are referred to as Phase II states or tribes. States/tribes currently (June 1983) eligible for Phase II grants are Washington, Nevada, Utah, Texas, Louisiana, Mississippi, and the Yakima Indian Nation. Sections 116(c)(1)(A) and 118(b)(1) of the Act explicitly provide for grants to states or tribes in this phase.

Phase III. States or affected tribes with recommended candidate sites which have been approved for site characterization by the President. These are referred to as "characterization" or Phase III states or tribes. There will be three such sites in the selection process for the first repository and another three sites in the subsequent selection process for the second repository. Sections 116(c)(1)(B), 116(c)(3), 118(b)(4), and 118(b)(2)(A) of the Act specify the activities for which states and affected tribes may receive grants from DOE in this phase.

Phase IV. States or affected tribes with a site which has been authorized by the NRC for construction of a repository. These are referred to as "construction" or Phase IV states or tribes. This category will include only the sites ultimately selected for repositories. Sections 116(c)(2)(A), 116(c)(3), 118(b)(4), and 118(b)(3)(A) specify the activities for which states and affected tribes may receive grants from DOE in this phase.

This guidance focuses on financial assistance available during Phases I and II. States and Indian tribes are eligible for new grants as sites proceed from Phase I to Phase IV. New grant applications and awards are required for each of the phases identified above. There should be no lapse in funding as states and Indian tribes progress from one phase to the next. However, DOE may discontinue funding for sites that are not selected for the next phase, i.e., are eliminated during any phase. Guidelines for terminating grants are described in detail later in this guidance.

3.0 ELIGIBILITY FOR GRANTS

States/tribes which have been notified pursuant to Section 116(a) and Indian tribes certified as "affected" by the Secretary of the Interior are eligible to receive financial assistance under the Act. DOE has also determined that where the Department is conducting exploratory/screening activities prior to notification, states and tribes may be eligible for grants for a limited range of activities related to state/tribe review of and comment on DOE documents and plans.

4.0 RECIPIENTS OF GRANTS

4.1 Indian Tribes

The Act identifies an Indian tribe as the appropriate recipient of grants issued under Section 118(b). It is expected that the governing body or tribal council will authorize and name individuals to act on behalf of the tribe.

4.2 States

Groups within a state which could be potential grant recipients include:

1. The Governor's office or an office under the Governor -- either an existing department, an advisory board or a new agency dealing exclusively with the nuclear waste issue;

2. An office or board of the State legislature; and

3. A local governmental entity such as a county government office.

While the Department prefers to negotiate and award grants to a single entity within the state (as determined by the state) during Phases I and II, the needs of other legitimate parties within the state for financial support should be recognized.

5.0 ACTIVITIES FUNDED

5.1 General

The Act provides some guidance on allowable uses of the grants, which will vary depending on the phase of the repository development process in which the states or affected tribes are involved. Activities funded will also vary with the level of participation desired by the state or tribe.

Grant applications should contain a detailed description of activities planned by the state or Indian tribe for the term of the grant, as well as a budget that details the costs of conducting those activities. If a potential grantee wishes to procure contractor assistance, it must follow the procedures in DOE's Financial Assistance Rules 10 CFR Part 600 (47 FR 44076, October 5, 1982).

DOE's Financial Assistance Rules establish minimum requirements applicable to all grantees for reporting on the progress and expenditures of the program and maintaining a financial management system.

5.2 Phase I (Prenotification) States or Tribes

DOE may award grants to these states or tribes primarily to fund state or tribal review of and comment on DOE documents and plans related to repository development activities within the state or tribal area. In addition, funds may be provided to

permit the state or tribe to prepare to negotiate a C&C agreement. (See Internal General Guidelines For Implementing the Consultation and Cooperation Agreement Provisions of Section 117 of the Nuclear Waste Policy Act of 1982.)

5.3 Phase II States or Tribes

The activities which may be funded by Phase II grants are specified in Sections 116(c)(1)(A) and 118(b)(1) of the Act. The grants shall be made "for the purpose of participating in activities required by Sections 116 and 117 or authorized by written agreement under Section 117(c)." This provision covers a broad range of activities which may be eligible for funding. Special consideration should be given to activities designed to achieve the goals of maximizing state or tribe involvement in the overall repository development program and enabling states and tribes to participate effectively in the development of binding written C&C agreements. Examples of permissible funding include the following activities:

Activities Leading to C&C Agreements -- DOE is required to begin negotiations on the C&C agreements within 60 days after (1) a candidate site has been approved for characterization by the President, or (2) receipt of a written request by a state or Indian tribe notified under Section 116(a) or an Indian tribe certified as "affected" by the Secretary of the Interior. A state or tribe may wish to gather information, develop draft provisions, and orient and train staff for the negotiation of C&C agreements.

Review and Comment -- The grantee should be responsible for reviewing and providing comment to DOE on the plans, reports, proposed rules, etc., which are relevant to repository development activities within the state or tribal area. Examples of such items include:

- Review of guidelines and modifications thereto;
- Environmental assessments;

- o Site Characterization Plan preparation material;
- o Geologic/hydrologic education reports;
- o Repository engineering reports;
- o Socioeconomic evaluation reports;

Public Information Function -- The grantee should disseminate information to groups within the state or tribe and respond to questions from individuals or groups within the state or tribal area. DOE may provide parallel services to the public and will coordinate public information activities with the grantee.

Coordination Activities -- The grantee should be responsible for coordinating with interested groups within the state or tribe. This might include other state agencies with an interest, the legislature, local governments and citizens groups. The grantee should assume responsibility for soliciting views of such groups and keeping them informed of state/tribe activities.

Analyses and Studies -- Phase II activities in this category should focus on the analyses and studies necessary to provide appropriate monitoring and evaluation of DOE activities. Examples of such monitoring include:

- o On-site monitoring of field activities.
- o Independent peer review of DOE procedures, analyses, and programs.
- o Participation in technical review of DOE programs.
- o Participation in development of DOE technical work plans.
- o Maintaining a technical data base for state/tribe use.
- o Participating in development and evaluation of socioeconomic/environmental plans and programs.
- o Planning and preparatory work necessary to establishing an information base for impact investigation studies.

6.0 REVIEW, NEGOTIATION AND FUNDING LEVELS

The DOE project offices have the responsibility to review each grant application to determine whether it conforms to the DOE Financial Assistance Rules, the requirements and goals of the Act, and these general guidelines.

The project offices working through their respective field operations offices have the authority to negotiate with the grant applicant any changes required to make the grant application conform to the requirements referenced above and the funding available within the project. The project office should discuss these requirements with potential grant applicants as early as possible (where possible, prior to receiving a formal application) to keep delays to a minimum in meeting state and tribe financial needs.

The funding levels for various grants should represent a balance between the varying needs of the different states and tribes and the need for equity among the states and tribes. Communication between field offices and headquarters is essential in developing judgments on the relationship between a grantee's proposed activities and the level of support requested.

7.0 LIMITATIONS AND DISCONTINUATION OF FINANCIAL ASSISTANCE

Because of the changing status of states and tribes relative to the geologic repository program under the Act (e.g., a state or tribe can move successively from the Phase I category to Phase IV or can be disqualified from further consideration), each grant should specify the conditions under which funding would be discontinued or amended.

Sections 116(c)(4) and 118(c)(5) specify criteria for termination of the grants under certain circumstances. However, these criteria refer primarily to termination of site characterization activities or formal disapproval of a site by the state or NRC. A number of sites will be dropped from consideration for a repository long before the termination conditions provided in the Act are reached. To assure that grants are phased out on an orderly basis, and recognizing that a state or tribe may have committed resources in anticipation of continuing through the repository development process, each grant should contain terms which specify how funding will be terminated. The following approach is suggested for sites that may be eliminated during Phase I or II:

> Funding may be based on quarterly contingency payments. Funding would terminate either 90 or 180 days after it has been decided to eliminate a site from further

consideration. Generally, the 90 day period should be adequate to permit an orderly discontinuation of funded activities for states or tribes eliminated during Phase I and 180 days should be adequate for states or tribes eliminated during Phase II.

Beyond the guidance, requirements, and limitations in DOE's general Financial Assistance Rules, the Act specifies that no "ordinarily incurred salary or travel expense" is eligible for funding under sections 116(c)(1)(A) or 118(b)(1). This means that DOE may finance extra-ordinary travel and salary expenses incurred as a direct result of the provision of services to, or participation in, waste disposal activities of the DOE under the Act. Salary and travel-related expenses of state employees working full- or part-time on waste disposal activities, consultants and other providers of contract services are potentially fundable. However, only those salary and travel expenses incurred by the state or tribe which would not have otherwise been incurred but for passage of the Act may be considered extra-ordinary expenses. Merely because activities proposed by a state/tribe predate either the grant request or the passage of the NWPA does not in itself render such activities ineligible. Such pre-existing activities may be eligible if they are germane to the purposes of the Act and they (1) were established in anticipation of passage of the NWPA to prepare for participation in the repository selection program, or (2) will provide the state/tribe or DOE with new or substantially modified deliverables (e.g., reports, comments, reviews), or (3) represent a distinct increase in the level of the pre-existing activities, or (4) must be performed in order to carry out activities which are clearly eligible. Where doubts exist, the state or tribe should be asked to demonstrate the extra-ordinary nature of the expenses in question.

8.0 COORDINATION OF GRANT REQUESTS AND AWARDS

The timely exchange of information between the project office and headquarters and among the project offices is necessary to ensure that timely policy guidance on various specific and general issues is available when needed, and that reasonable consistency and equity among states and tribes associated with different projects is maintained. To facilitate this exchange of information the headquarters staff will serve the role of an "information clearinghouse" for grant applications and awards.

The project offices should provide headquarters staff information copies of all grant requests as they are received. This should be followed up with informal status reports on negotiations as they proceed. During this process headquarters

staff will provide guidance to the project office as requested and information on how similar situations or requests have been or are being handled in other project offices. The project office should also provide to headquarters copies of all grant awards. This information will serve as the basis for: (1) a periodic summary report on the level and substance of grant activities under the Act, and (2) providing additional specific guidance.