



Department of Energy
 Richland Operations Office
 P.O. Box 550
 Richland, Washington 99352

WM Record File .. 1.0.1.2..	
WM Dir.	
WM Dep. Dir.	
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WMHT ^{R.M.}	WMHL
WMUR ^{H.M.}	Others

See
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 for encls

NOV 3 1982

WM-10
PDR
 (Return to WM, 623-SS)

Mr. H. J. Miller, Chief
 High Level Waste Technical
 Development Branch
 Division of Waste Management
 U. S. Nuclear Regulatory Commission
 Washington, DC 20555

Dear Mr. Miller:

TRANSMITTAL OF INFORMATION

Enclosed for your information and file are four copies of the material presented during the meeting with the State of Washington High-Level Nuclear Waste Management Task Force held at Richland on October 22, 1982. Please make distribution of the enclosed material to the other NRC staff who attended the task force meeting.

Very truly yours,

O. L. Olson

O. L. Olson, Project Manager
 Basalt Waste Isolation Project Office

BWI:DJS

Enclosure

cc, w/encl: R. Stein, DOE-HQ

8303290550 821103
 PDR WASTE
 WM-10 PDR

00210



UNITED STATES
DEPARTMENT OF ENERGY

DEPARTMENT OF ENERGY MEETING
WITH
HIGH-LEVEL NUCLEAR WASTE MANAGEMENT
TASK FORCE

Richland, Washington
October 22, 1982

BASALT



Rockwell
International

101.2
End to
11-3-82 LR
to HSM fm
Olson

WASTE ISOLATION

PROJECT

Agenda

DEPARTMENT OF ENERGY MEETING
WITH
STATE OF WASHINGTON
HIGH-LEVEL NUCLEAR WASTE MANAGEMENT TASK FORCE

Richland, Washington
October 22, 1982

- 8:30 a.m. Task Force Arrives at Richland Airport
- 8:30-9:00 Travel to Federal Building - Room 780
- 9:00-10:00 Governor's Task Force Meeting - Room 780
- 10:15-11:15 Hanford Overview Presentation by Alex Fremling, DOE-RL
- 11:15-11:45 National Waste Terminal Storage Program Overview/
Pending Waste Legislation Presentation by
Bill Bennett, DOE-HQ
- 11:45-12:30 p.m. Travel to Near Surface Test Facility Visitors Center
- 12:30-1:15 Lunch and Tour Visitors Center (Box Lunch \$3.68)
- 1:15-1:30 BWIP Management Overview Presentation by Lee Olson, DOE-RL
- 1:30-3:00 BWIP Program Summary Presentation by Raul Deju, Rockwell
Hanford Operations
- 3:00-3:15 Discussion
- Financial Assistance Grant
 - Status of Task Force Advisory Groups
- 3:15-4:00 Tour Near Surface Test Facility
- 4:00-4:30 Bus Tour of Exploratory Shaft Site
- 4:30-5:30 Return to Richland Airport

BWI:OLO
10/21/82

LIST OF PARTICIPANTS

State of Washington High-Level Nuclear Waste Management Task Force

Nicholas D. Lewis, Chairman, Energy Facility Site Evaluation Council
David Stevens, Office of the Governor
Don Provost, Department of Ecology (Designee for Donald Moos)
Karen Rahm, Planning and Community Affairs Agency
Ed McGuire, State Energy Office (Designee for Richard Watson)
Brian Boyles, Commissioner of Public Lands
Sam Reed, Department of Social and Health Services (Designee for Allen Gibbs)
Georgette Valle, Washington State Representative
Al Williams, Washington State Senator
Shirley Hankins, Washington State Representative
Max Benitz, Washington State Senator

Task Force Guests

Susan Gould, Washington State Senator
Bradley G. Erlandson, Assistant to the Chairman, EFSEC
Ray Lasmanis, Department of Natural Resources (Designee of Brian Boyles)
Chuck Clarke, Planning and Community Affairs Agency (Designee of Karen Rahm)
Curt Eschels, Senate Energy and Utilities Committee Staff
Terry Frazee, Department of Social and Health Services
Donald Martin, External Affairs of Canadian Consulate Office
Alvin Rickers, State of Utah, Office of Nuclear Waste

U. S. Nuclear Regulatory Commission

Hubert Miller, Chief, High Level Waste Technical Development Branch
Joseph Bunting, Chief, Licensing Process and Integration Branch
Robert McDougall, Program Analyst, Licensing Process and Integration Branch
Catherine Russell, Program Analyst, Licensing Process and Integration Branch

U. S. Department of Energy

Bill Bennett, Acting Deputy Director, Division of Waste Repository Deployment
Alex Fremling, Manager, Richland Operations Office
John Anttonen, Assistant Manager for Projects and Facilities Management
Lee Olson, Project Manager, Basalt Waste Isolation Project Office
Dick Hames, Chief Counsel

Rockwell Hanford Operations

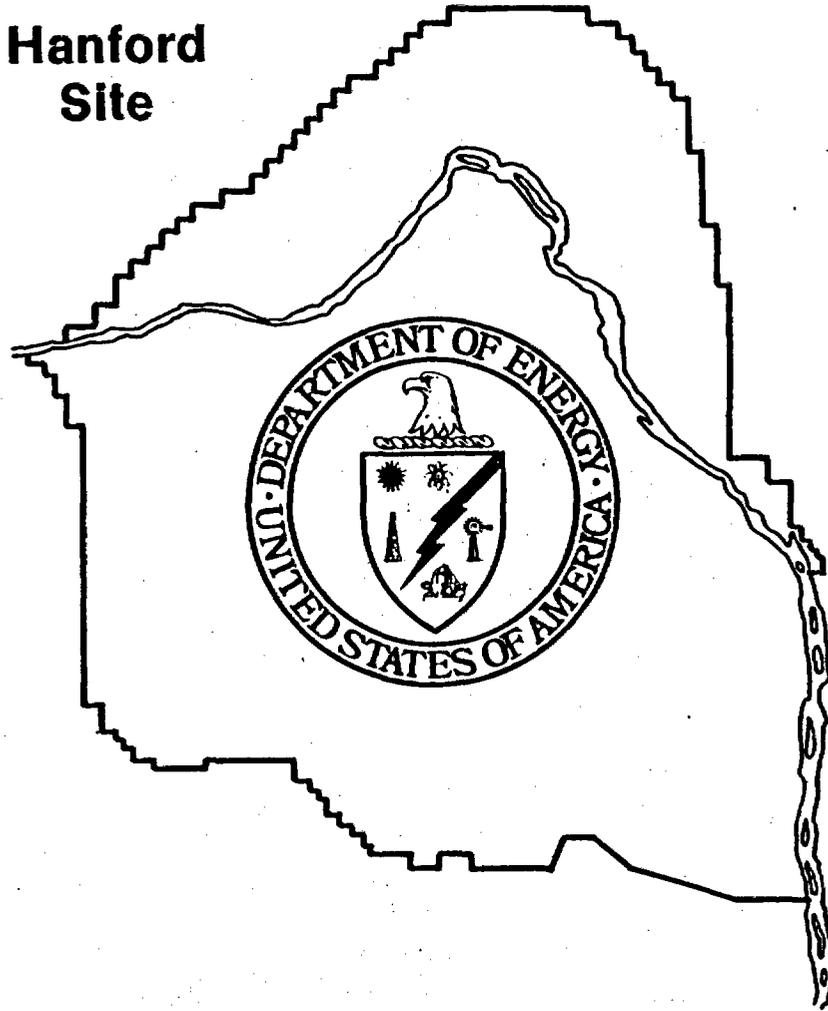
Don Cockeram, Vice President and General Manager
Paul Lorenzini, Assistant General Manager
Raul Deju, Director, Basalt Waste Isolation Project
*Ralph Gimera, Associate Director, Basalt Waste Isolation Project
*Don Brown, Senior Scientific Advisor, Basalt Waste Isolation Project
*Larry Fitch, Manager, Licensing Department, Basalt Waste Isolation Project
*Norm Steger, Program Manager, Facilities, Basalt Waste Isolation Project

*NSTF

HANFORD OVERVIEW PRESENTATION

BY ALEX FREMLING, DOE-RL

**Hanford
Site**



OCT 22 1982

Hanford History

1943 - 1945 The Beginning

- Acquisition of a 450,000 acre site
- Construction of 3 reactors and related production and waste management facilities
- Production of plutonium to help end World War II
- Pioneering work in nuclear technology

1947 - 1963 Hanford Expansion

- Construction of 5 additional once-through reactors and related production and waste management facilities
- Construction of dual-purpose N Reactor
- Expanded production of materials for national defense



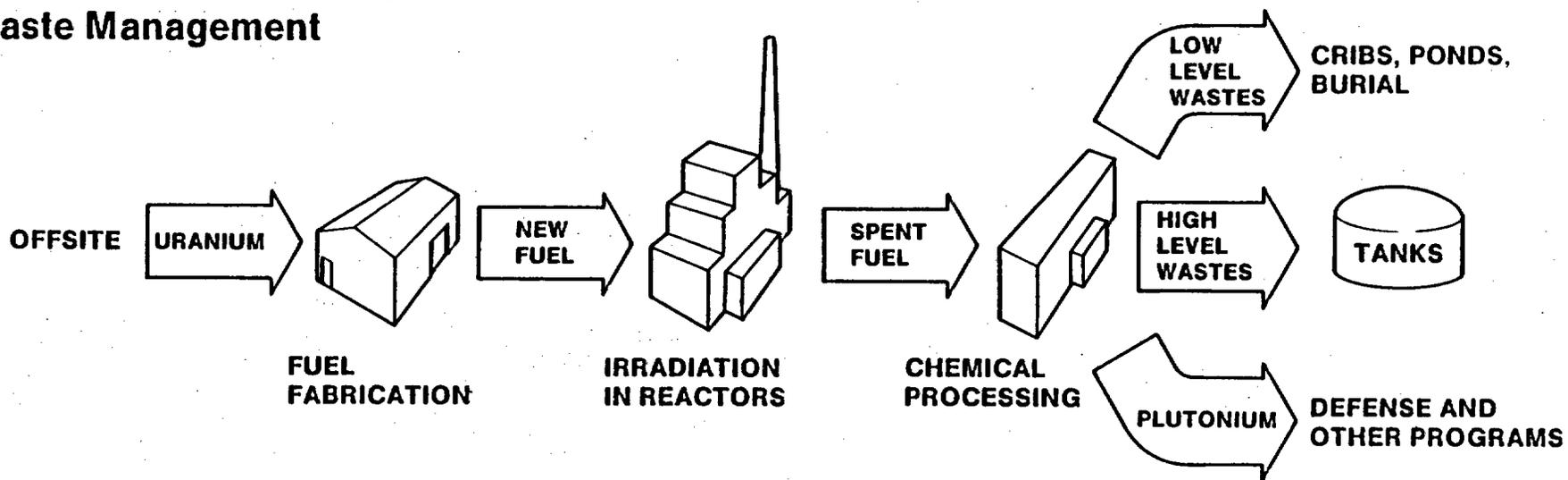
1964 - 1972 Crisis and Recovery

- Declining onsite employment
- Adverse impact on the community
- Segmentation and diversification
- FFTF siting at Hanford

1973 - Present Creating a New Hanford

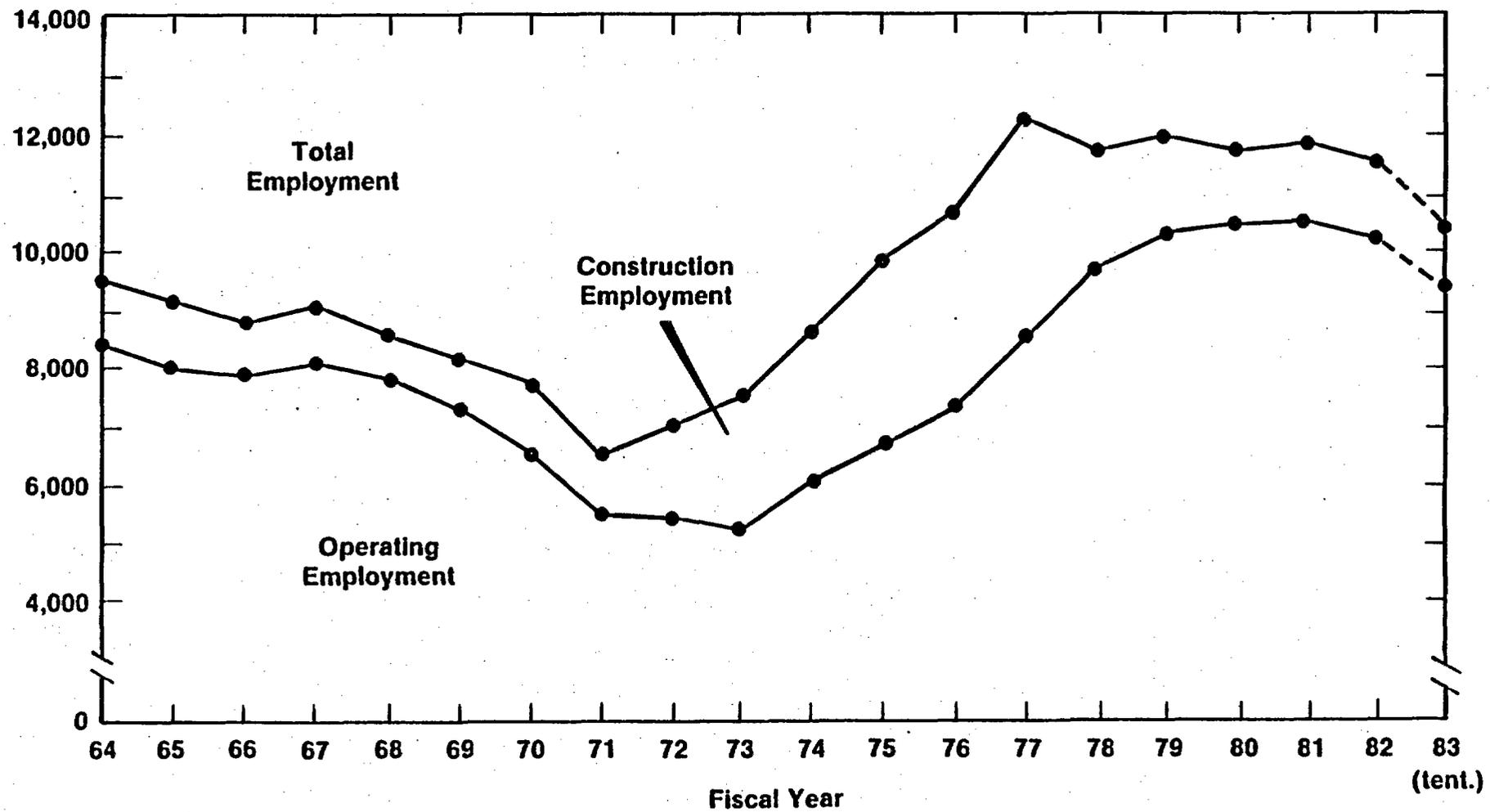
- Continuation of historic production mission
- Upgraded management and disposal of defense wastes
- New programs and facilities
- Changes in cognizant Federal agency
- Public awareness and involvement

Hanford Defense Production and Waste Management



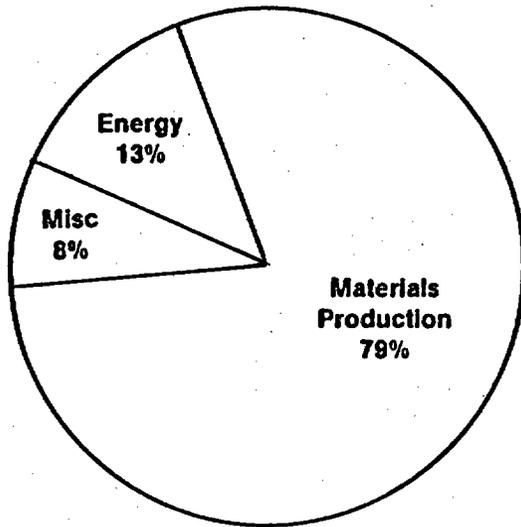
FEDERALLY-FUNDED HANFORD EMPLOYMENT

1964-1983

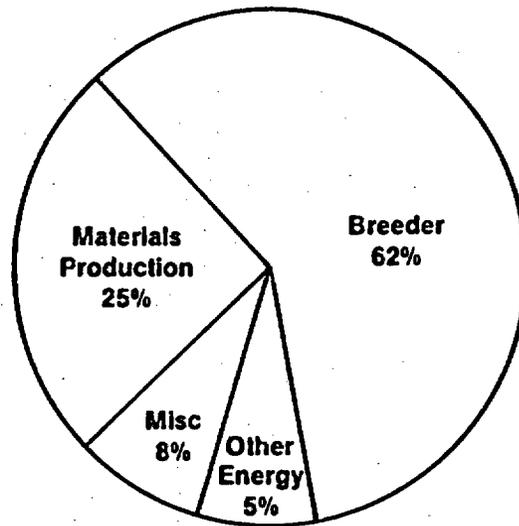


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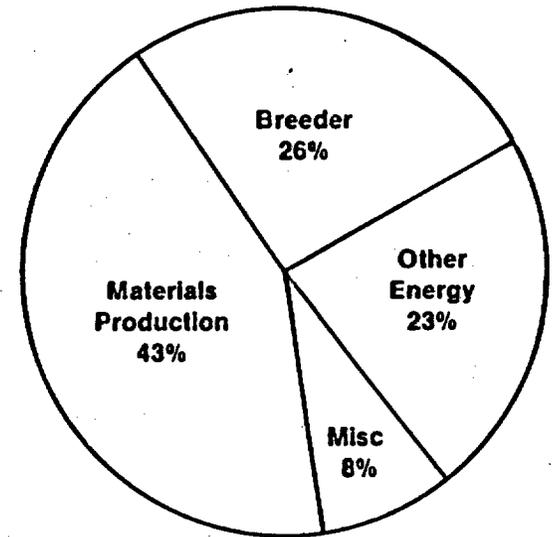
**AEC Funding
at Hanford: 1964
\$ 160 M**

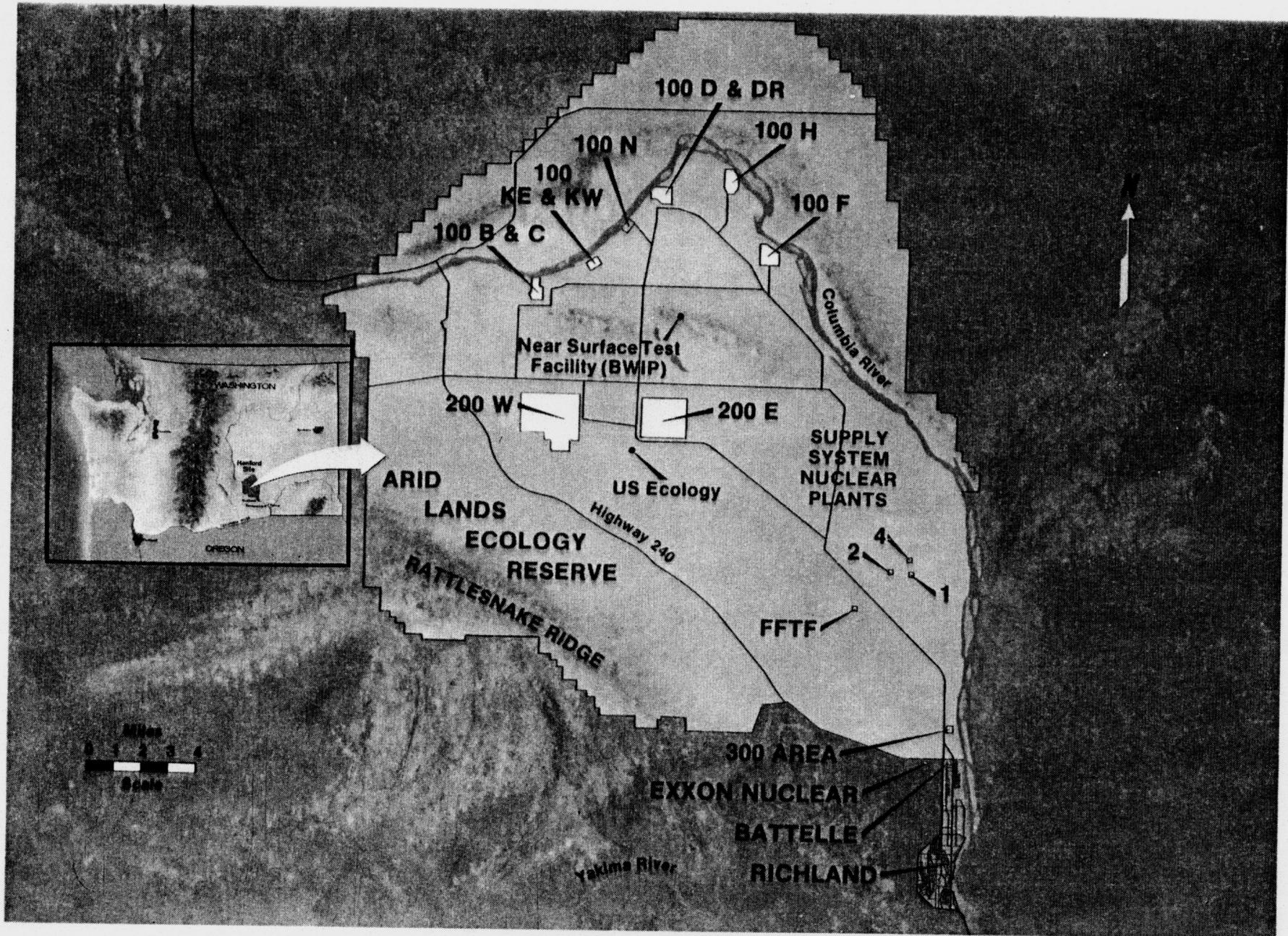


**DOE Funding
at Hanford: 1975
\$ 381 M**

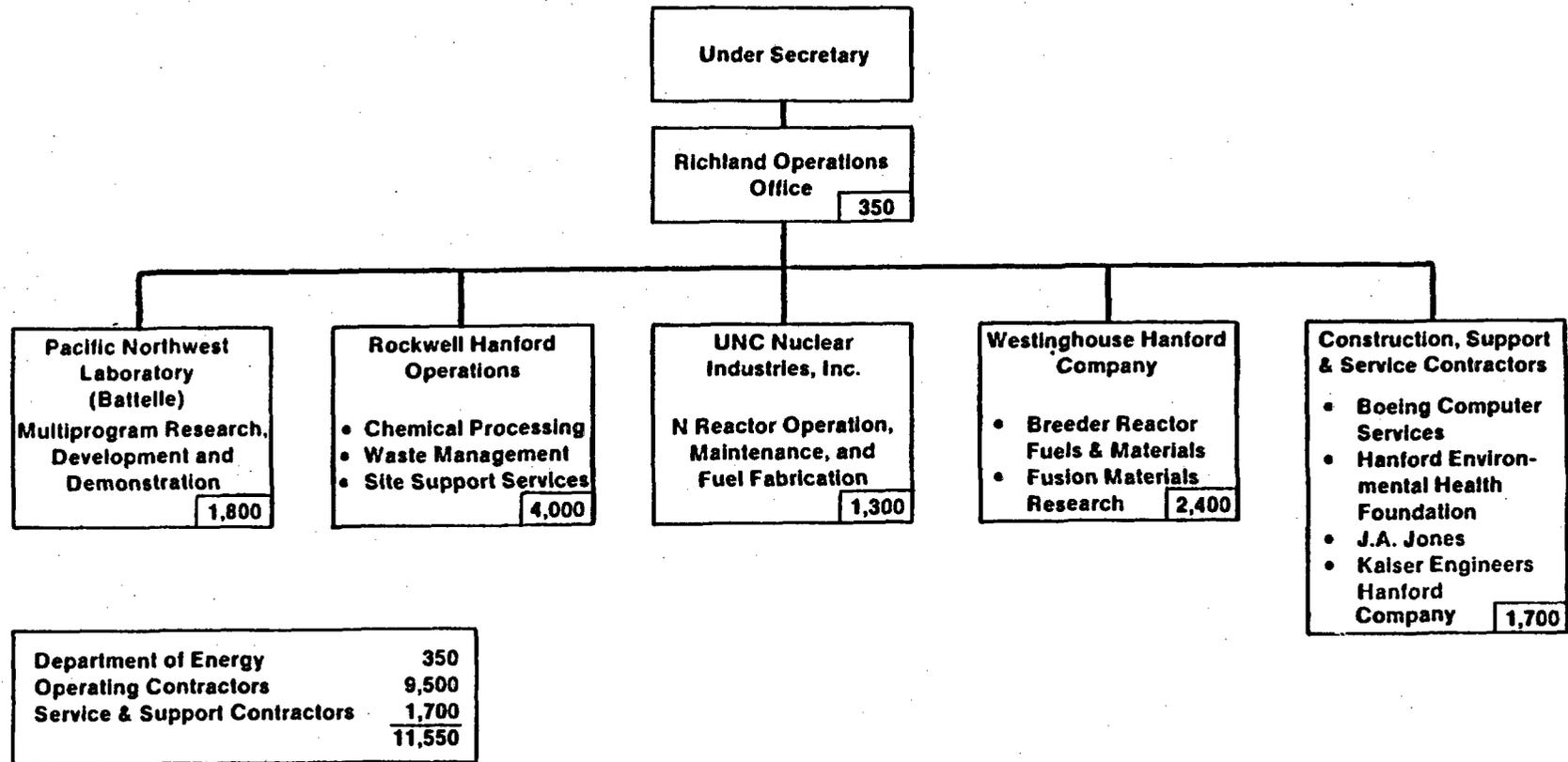


**DOE Funding
at Hanford: 1982
\$ 760 M**

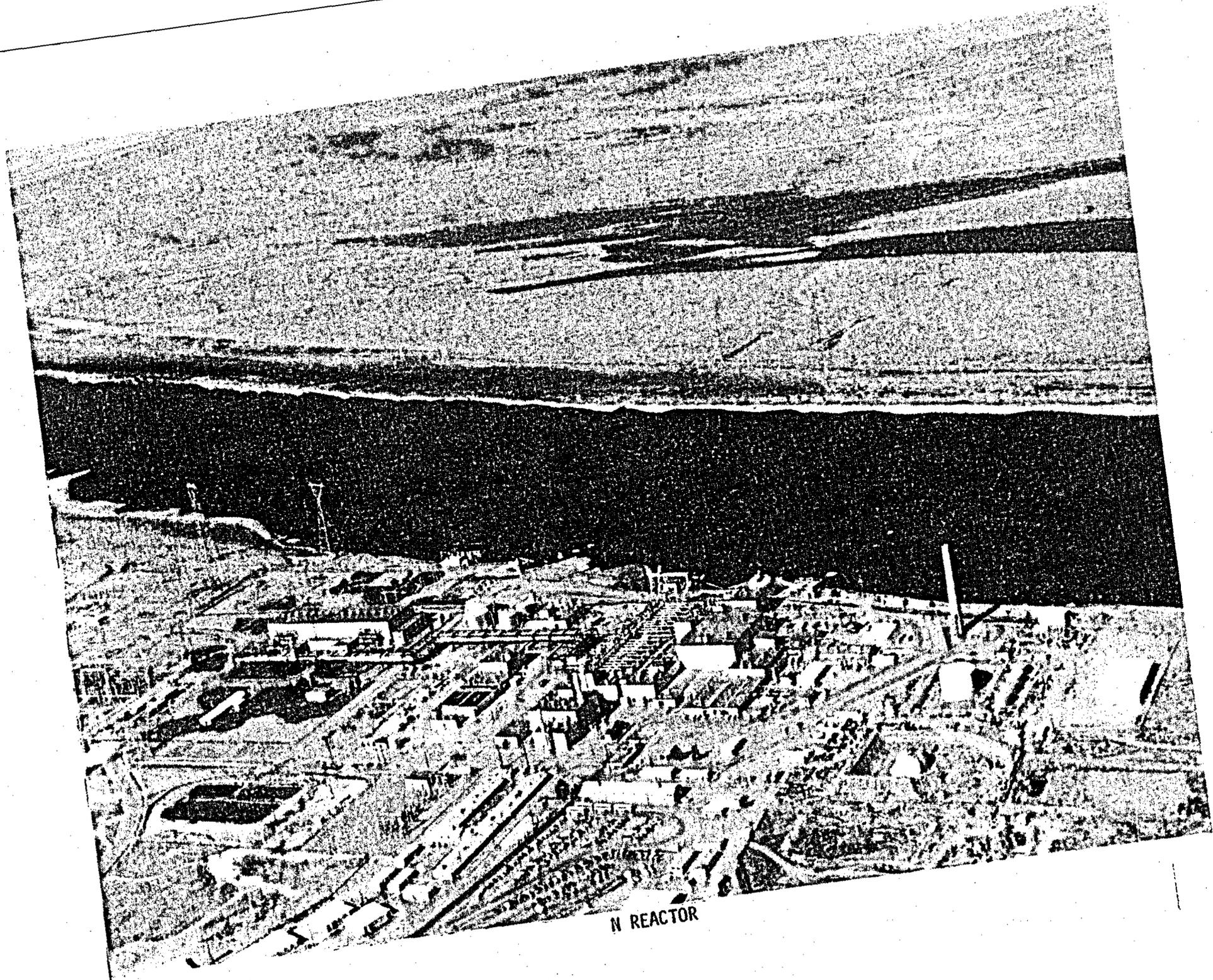




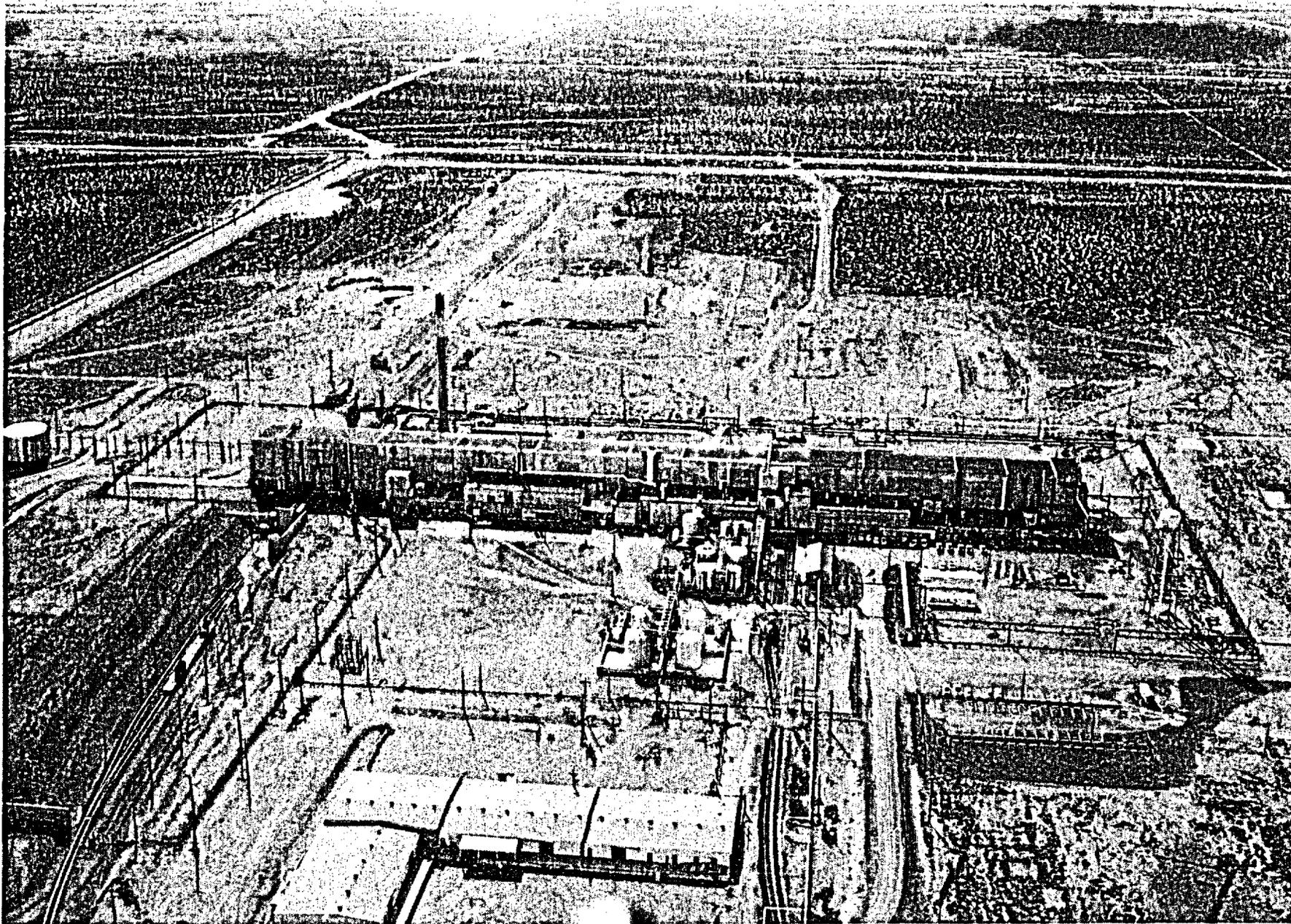
HANFORD ORGANIZATIONAL RELATIONSHIPS



**PRODUCTION OF NUCLEAR
MATERIALS AND MANAGEMENT
OF DEFENSE WASTES**



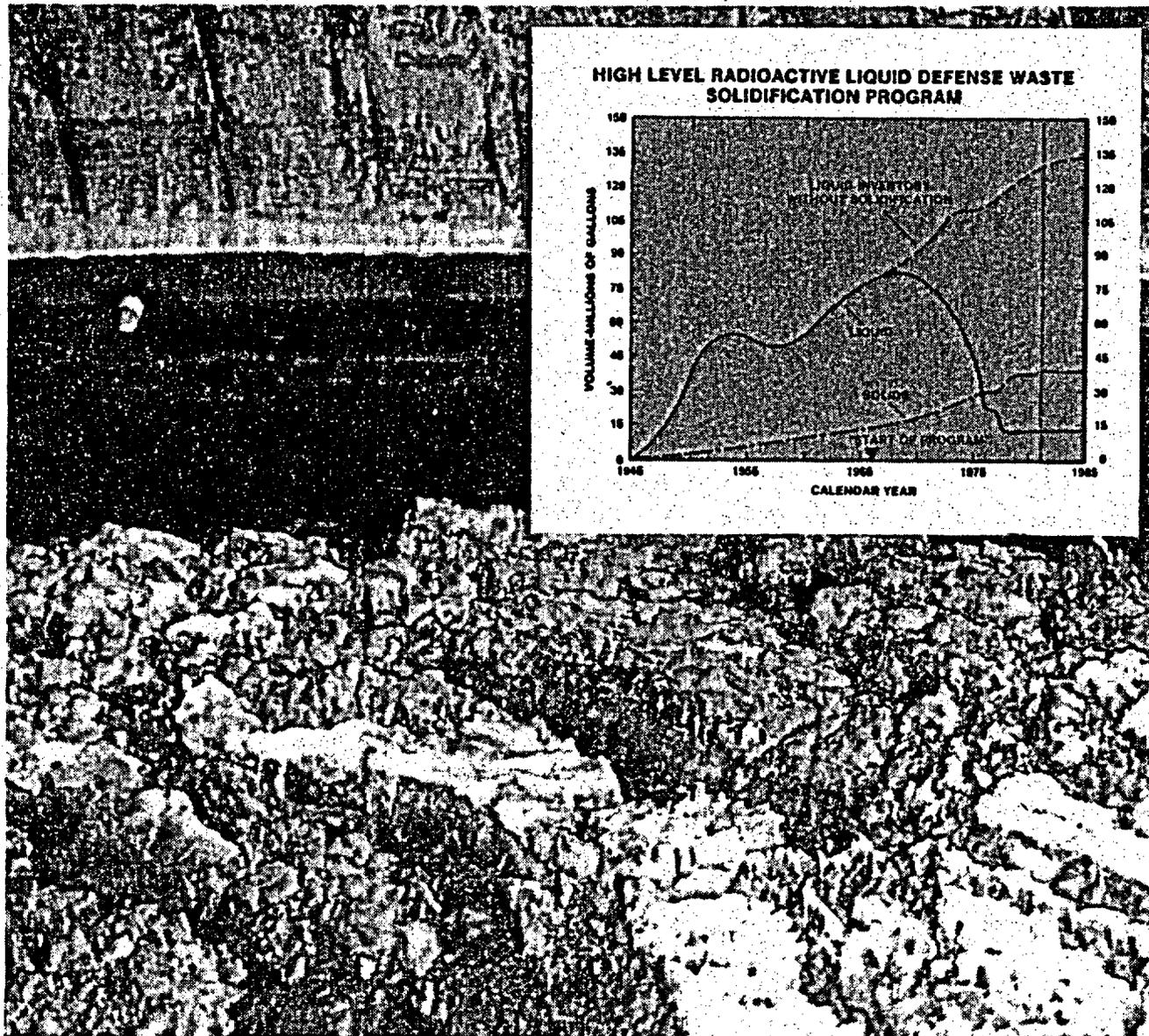
N REACTOR



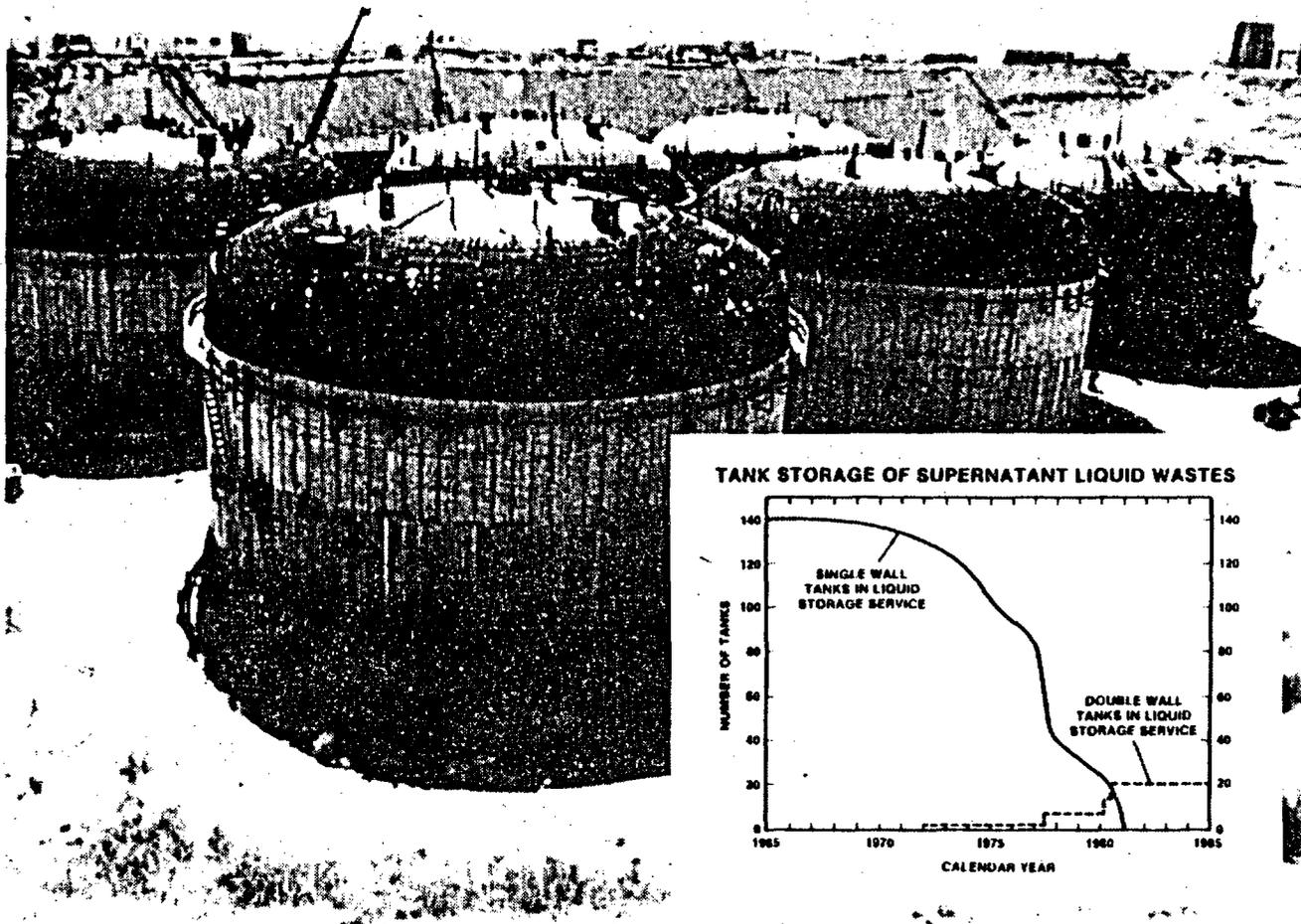
PUREX

Hanford Defense Waste Management Improvements

- Solidification of high level wastes

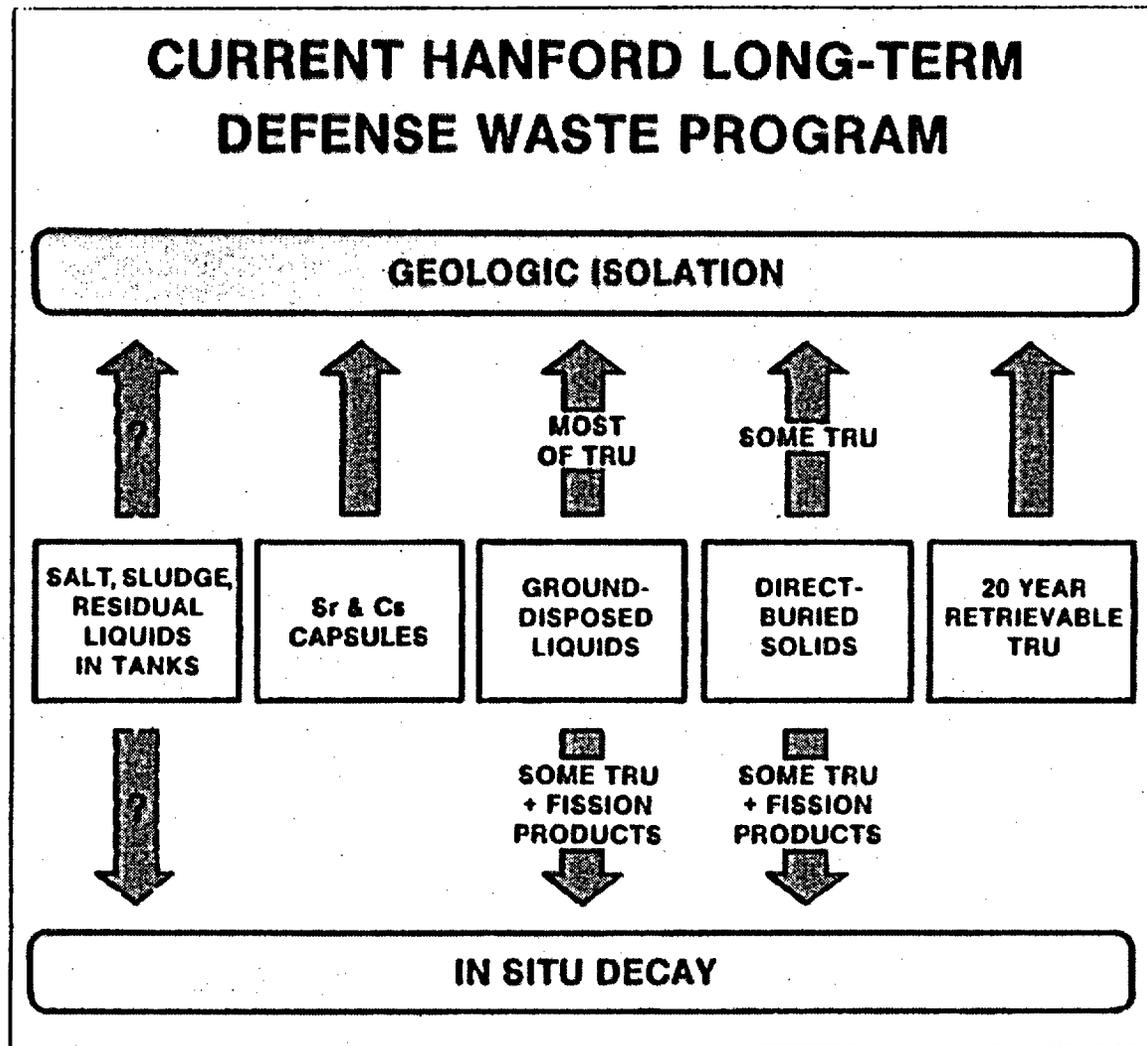


- Construction of new liquid storage tanks



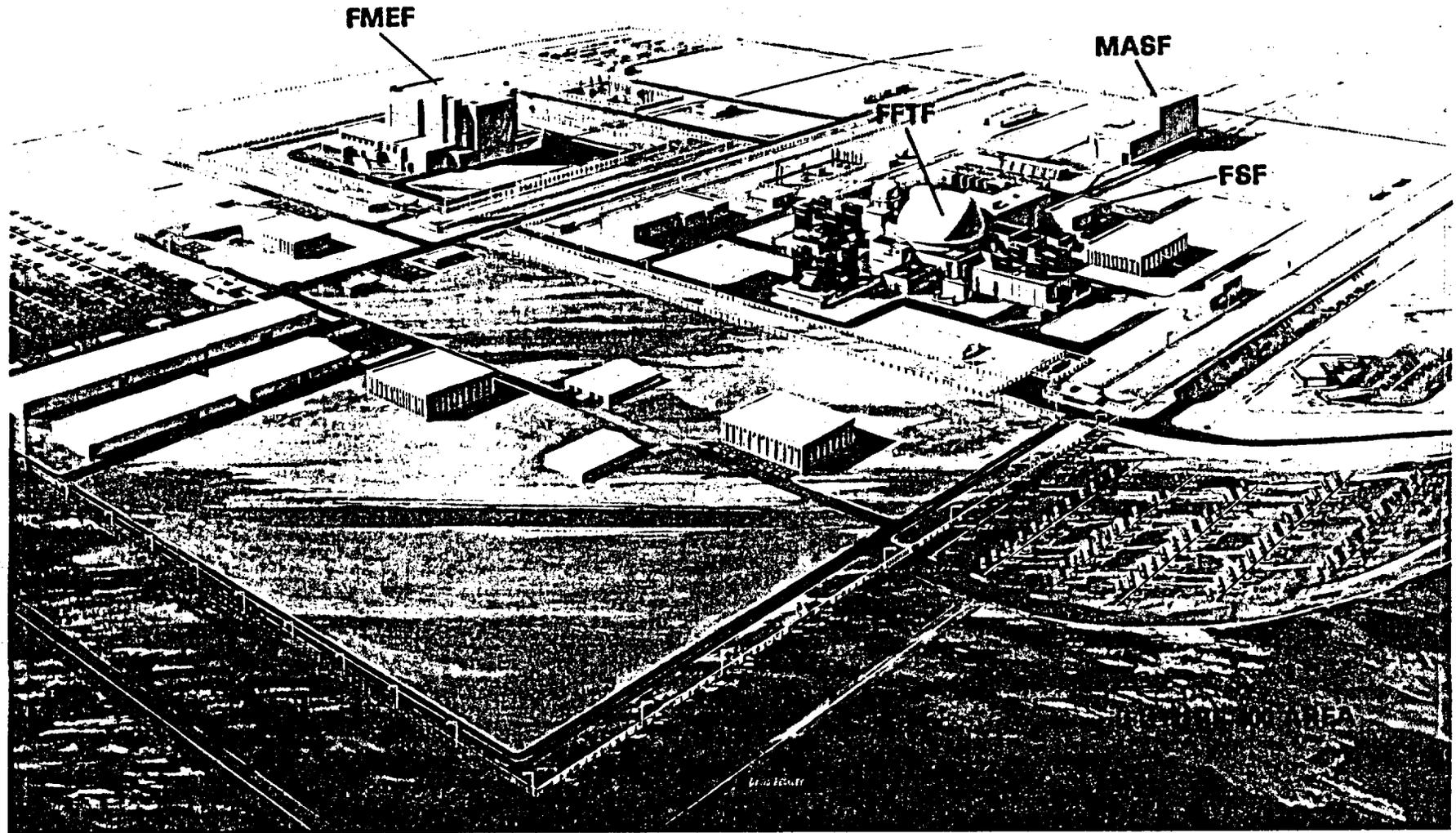
CURRENT HANFORD LONG-TERM DEFENSE WASTE PROGRAM

- Development and evaluation of alternatives for ultimate disposal



BREEDER REACTOR DEVELOPMENT

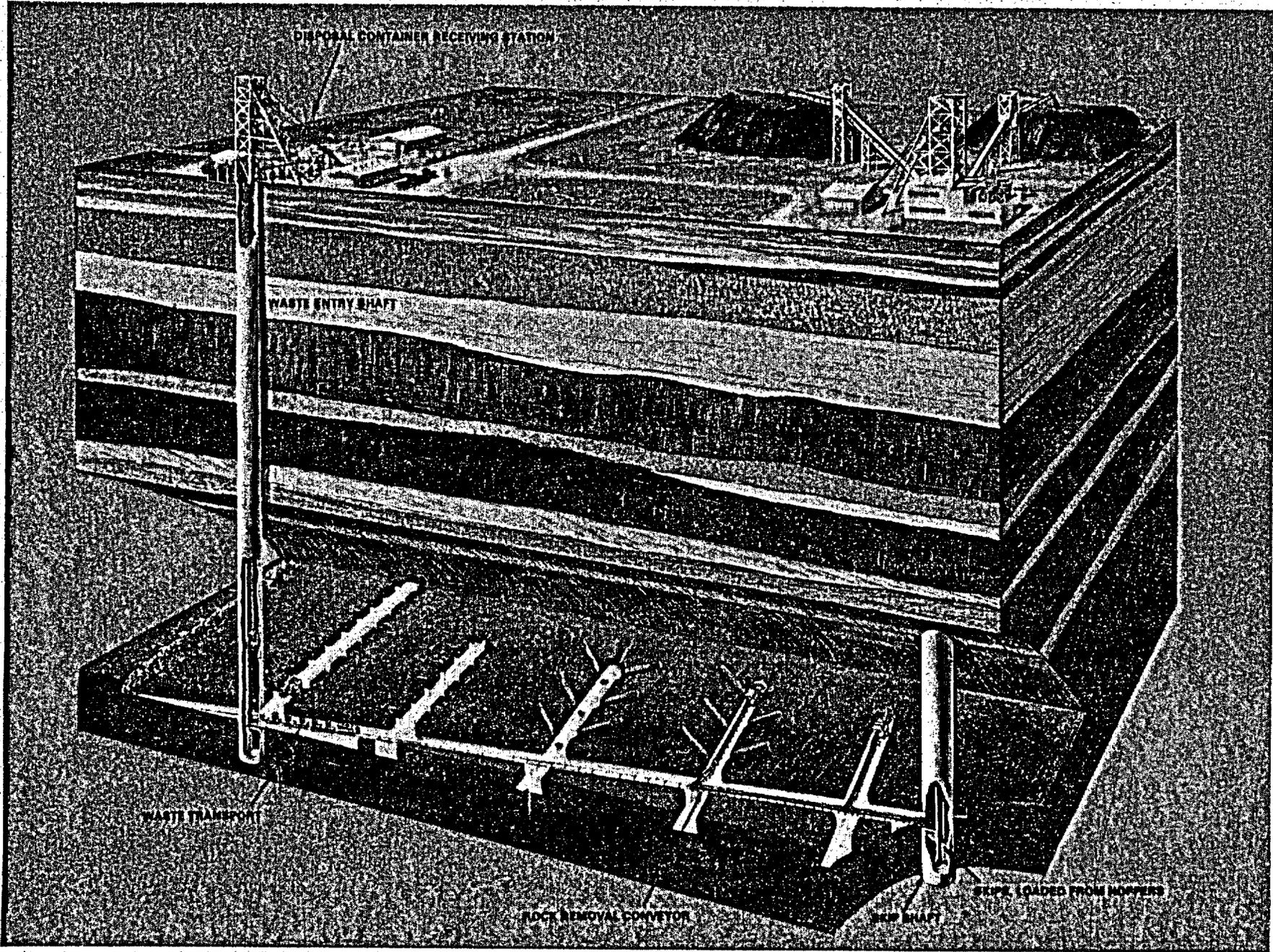
BREEDER REACTOR DEVELOPMENT





Hanford Programs

Basalt Waste Isolation Project



DISPOSAL CONTAINER RECEIVING STATION

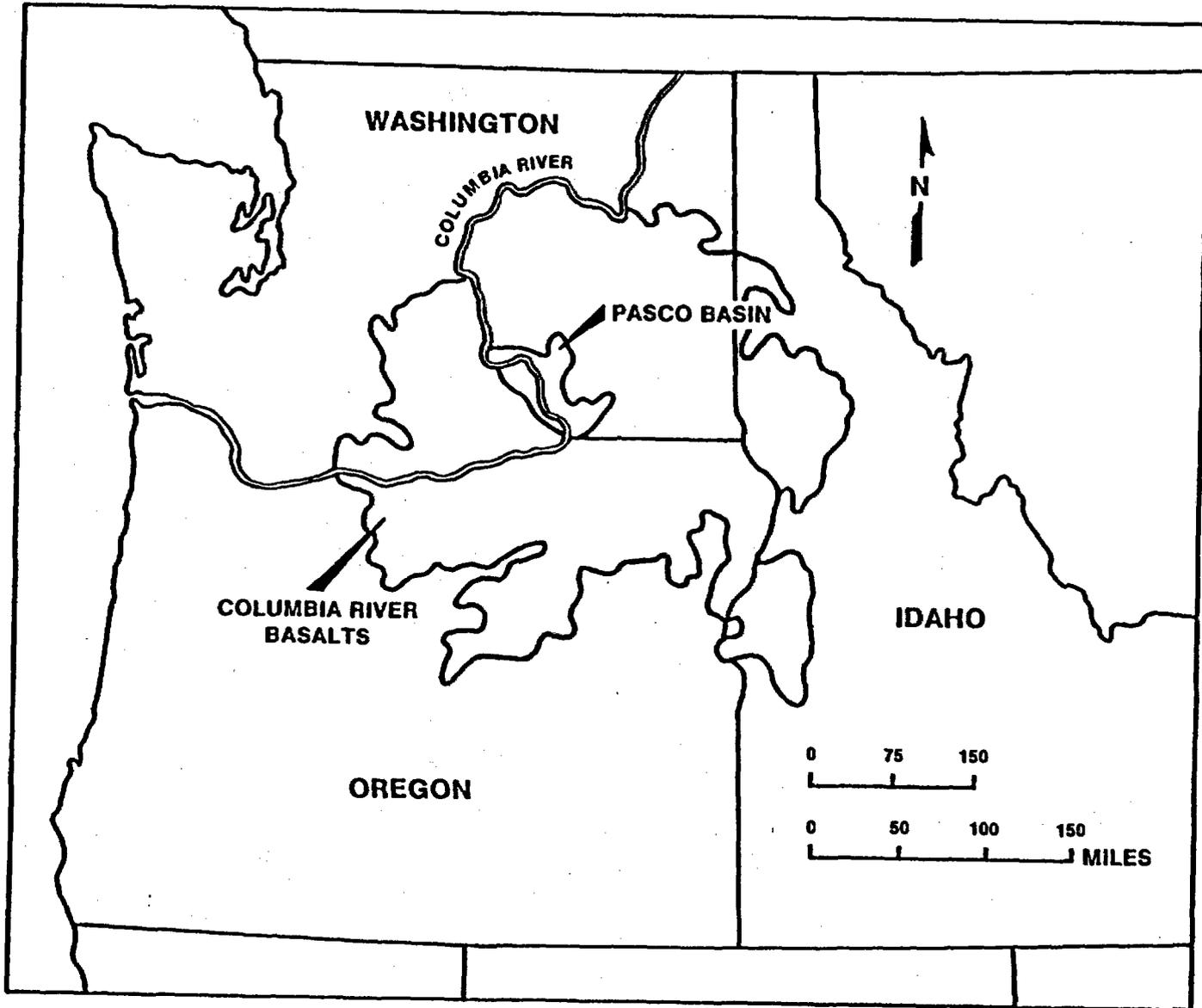
WASTE ENTRY SHAFT

WASTE TRANSPORT

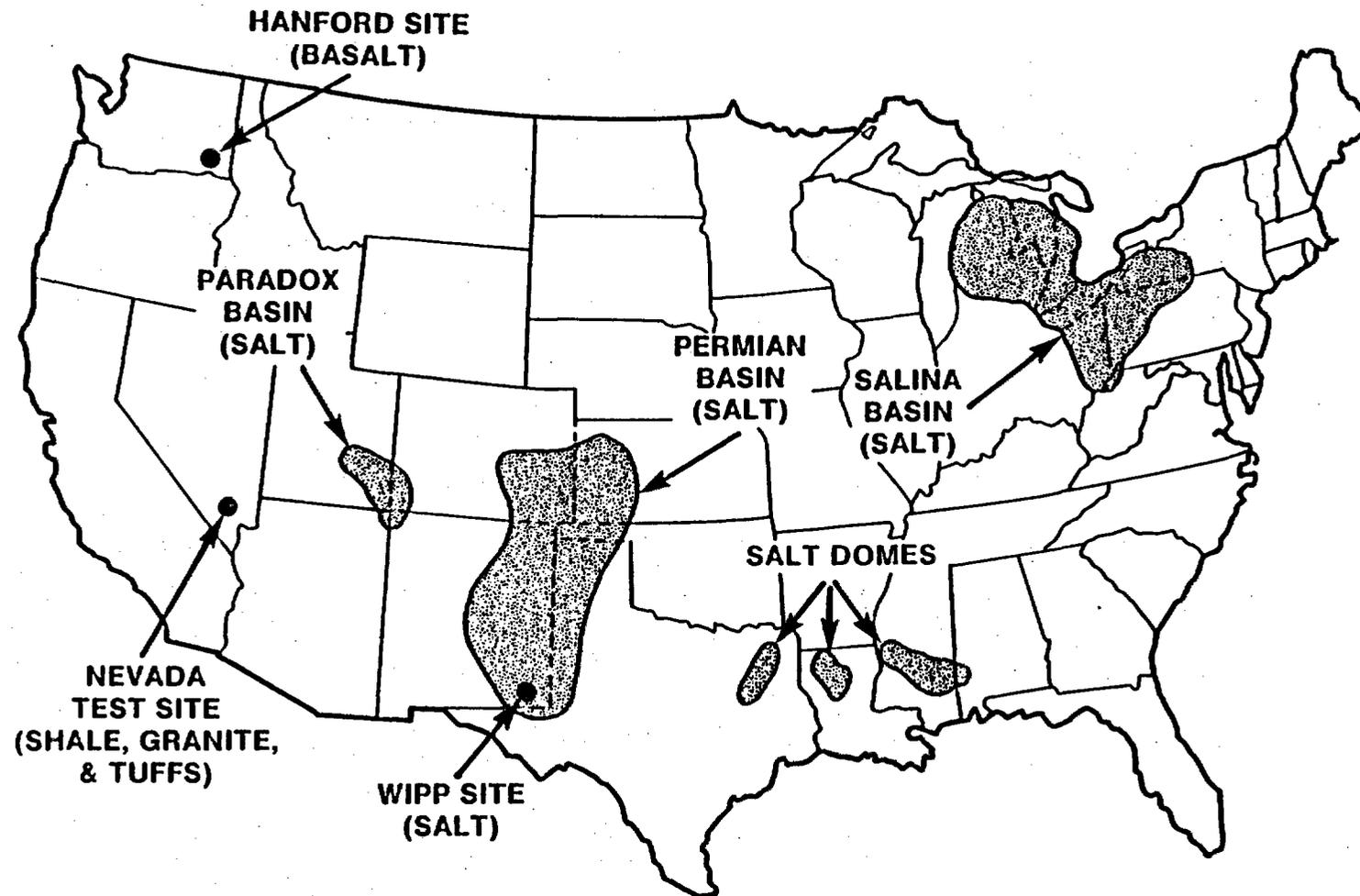
ROCK REMOVAL CONVEYOR

SHIP SHAFT

SHIP LOADED FROM HOPPERS



GEOLOGIC FORMATIONS BEING INVESTIGATED FOR TERMINAL STORAGE OF RADIOACTIVE WASTES

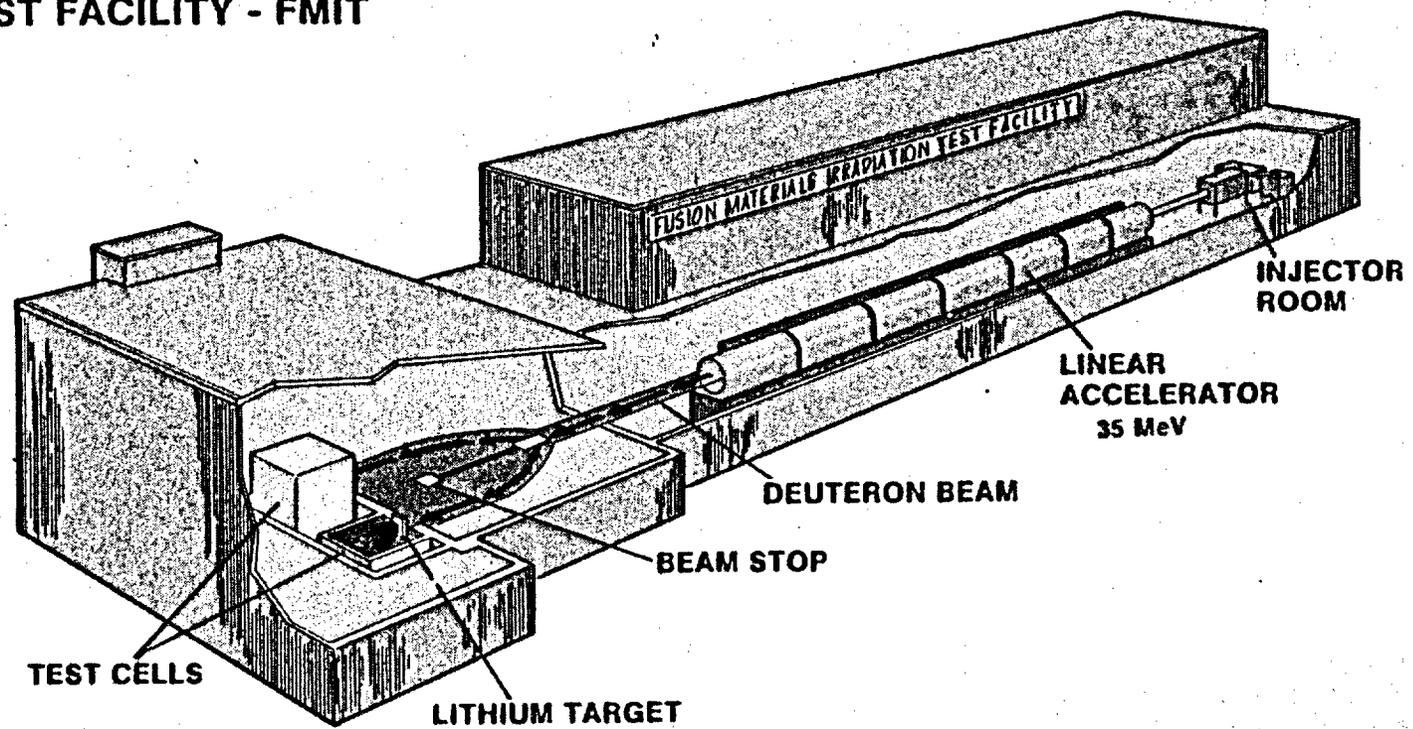




Hanford Programs

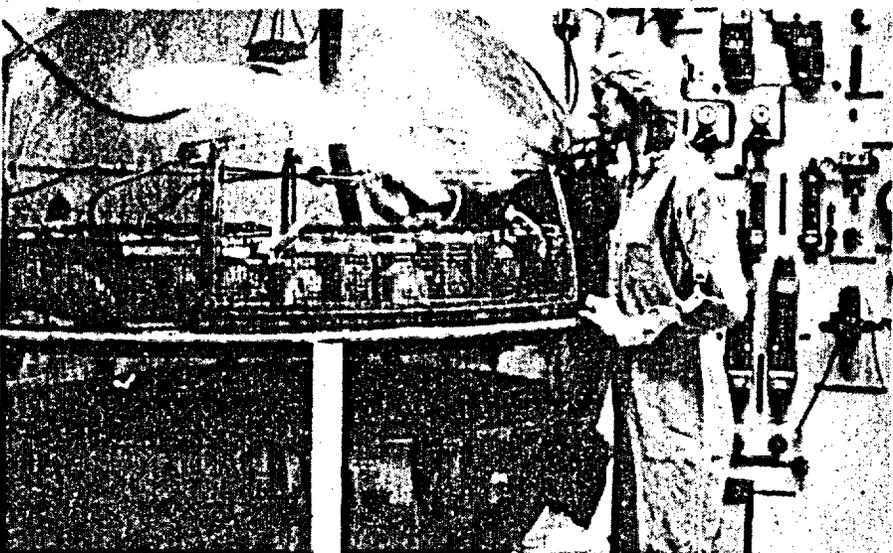
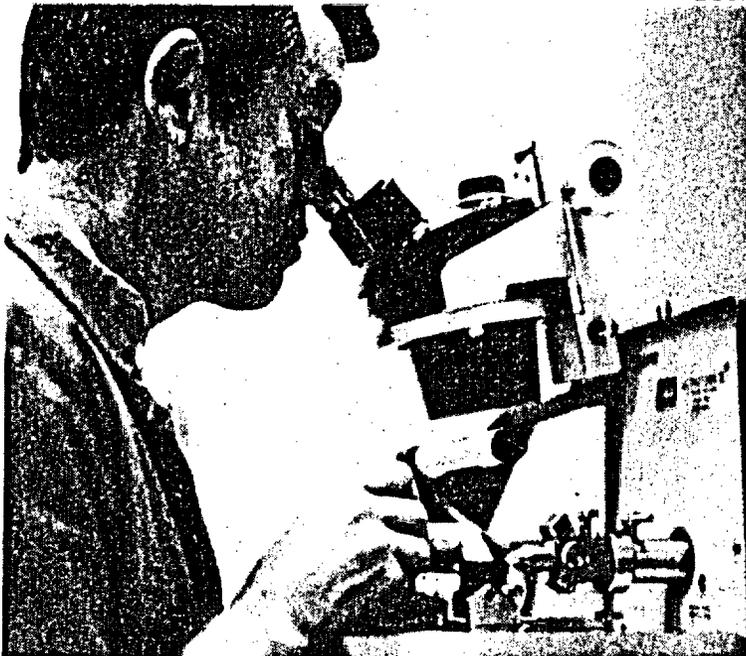
Fusion Energy

FUSION MATERIALS IRRADIATION TEST FACILITY - FMIT



BIOMEDICAL AND ENVIRONMENTAL PROGRAMS

BIOMEDICAL PROGRAMS



Hanford Environmental Monitoring Program

- **Air**
- **Water**
 - Columbia River
 - Ground water
 - Drinking water
- **Foodstuffs**
 - Milk
 - Meat, chicken, eggs
 - Vegetables
- **Wildlife**
 - Deer
 - Pheasants, ducks, geese
 - Fish
 - Oysters
- **Soil and vegetation**
- **External radiation**

AVERAGE ANNUAL CONTRIBUTIONS FROM TYPICAL SOURCES OF RADIATION

(EXPRESSED IN MILLIREMS)

BACKGROUND

Cosmic	28
Internal	30
Terrestrial	40
Fallout	4
	<hr/>
Average Annual U.S. Citizen's Dose =	102

OTHER

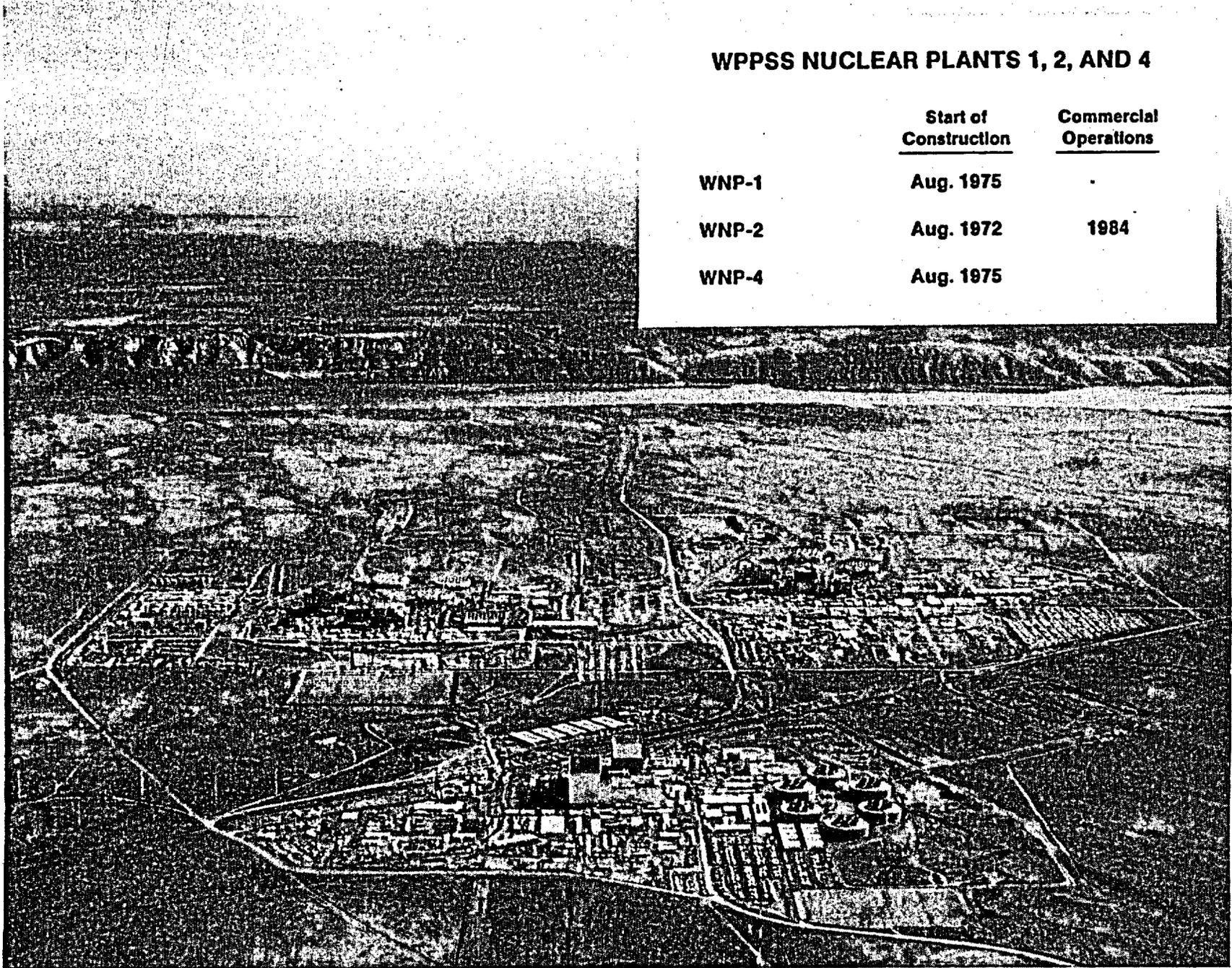
Medical X-rays	55
Living in brick house	75
Jet flight-round trip-coast-to-coast (each trip)	5
Color television	1

NON-FEDERAL PROGRAMS

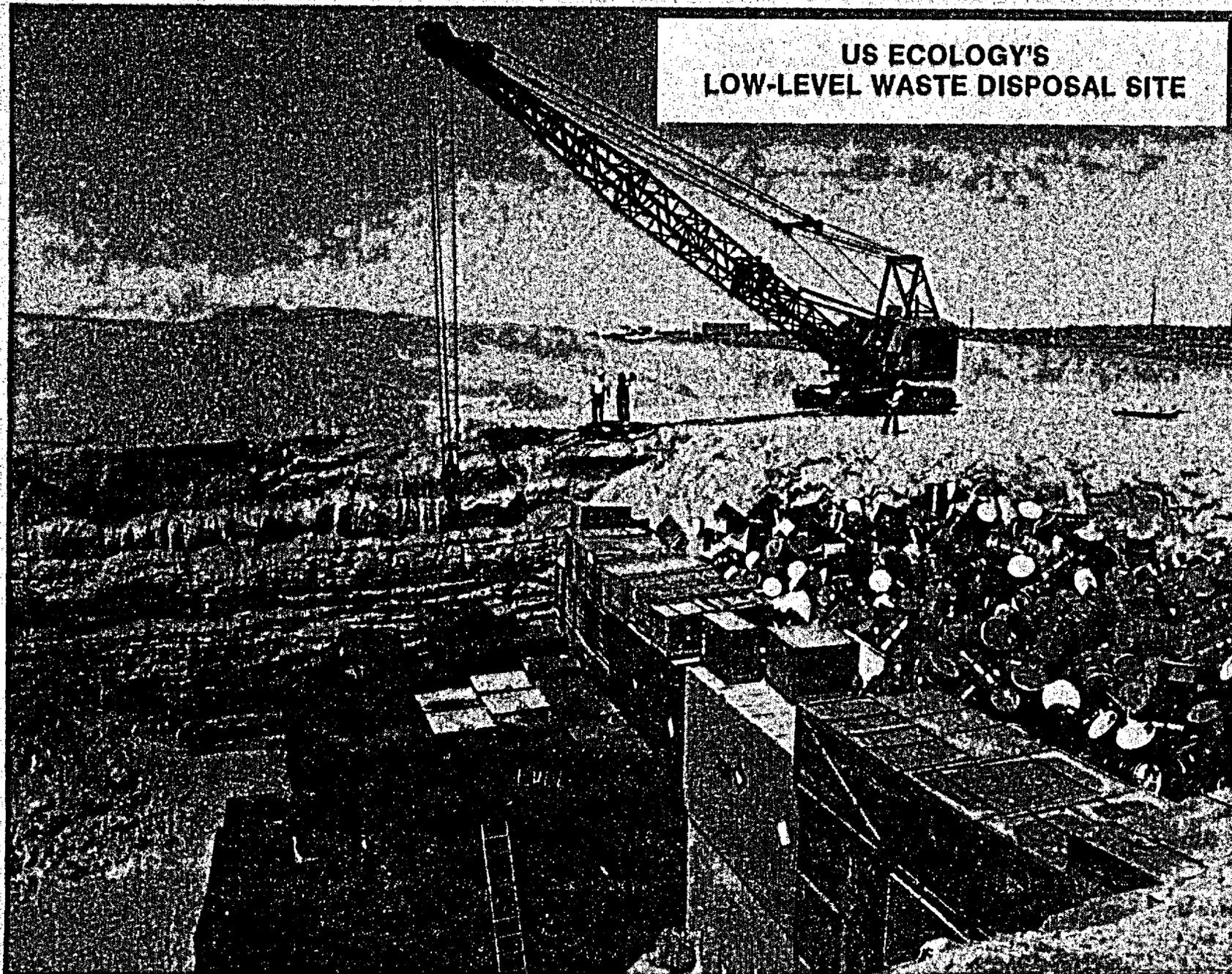
NON-FEDERAL PROGRAMS

WPPSS NUCLEAR PLANTS 1, 2, AND 4

	<u>Start of Construction</u>	<u>Commercial Operations</u>
WNP-1	Aug. 1975	.
WNP-2	Aug. 1972	1984
WNP-4	Aug. 1975	

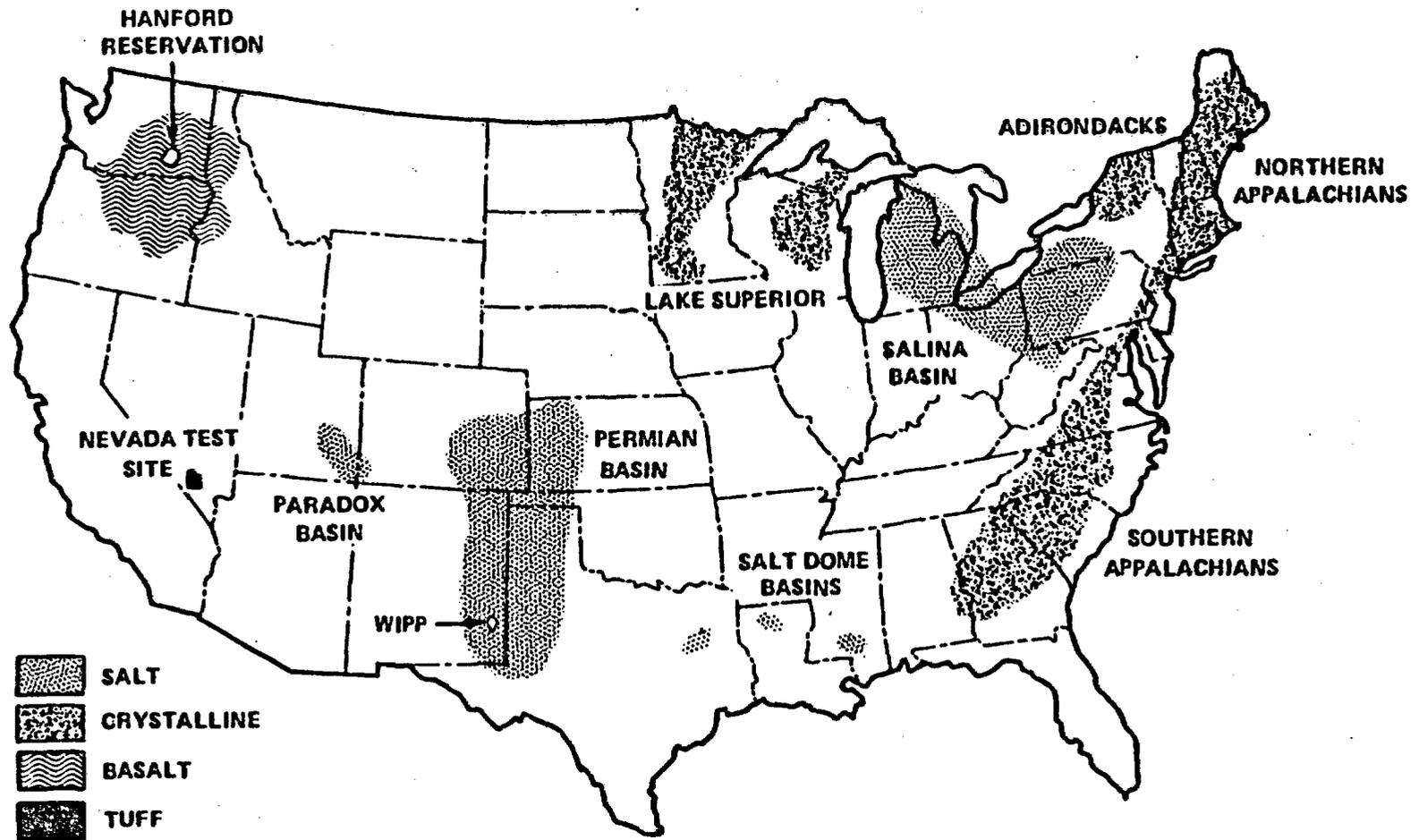


**US ECOLOGY'S
LOW-LEVEL WASTE DISPOSAL SITE**



**NATIONAL WASTE TERMINAL STORAGE
PROGRAM OVERVIEW/PENDING WASTE LEGISLATION
PRESENTATION**

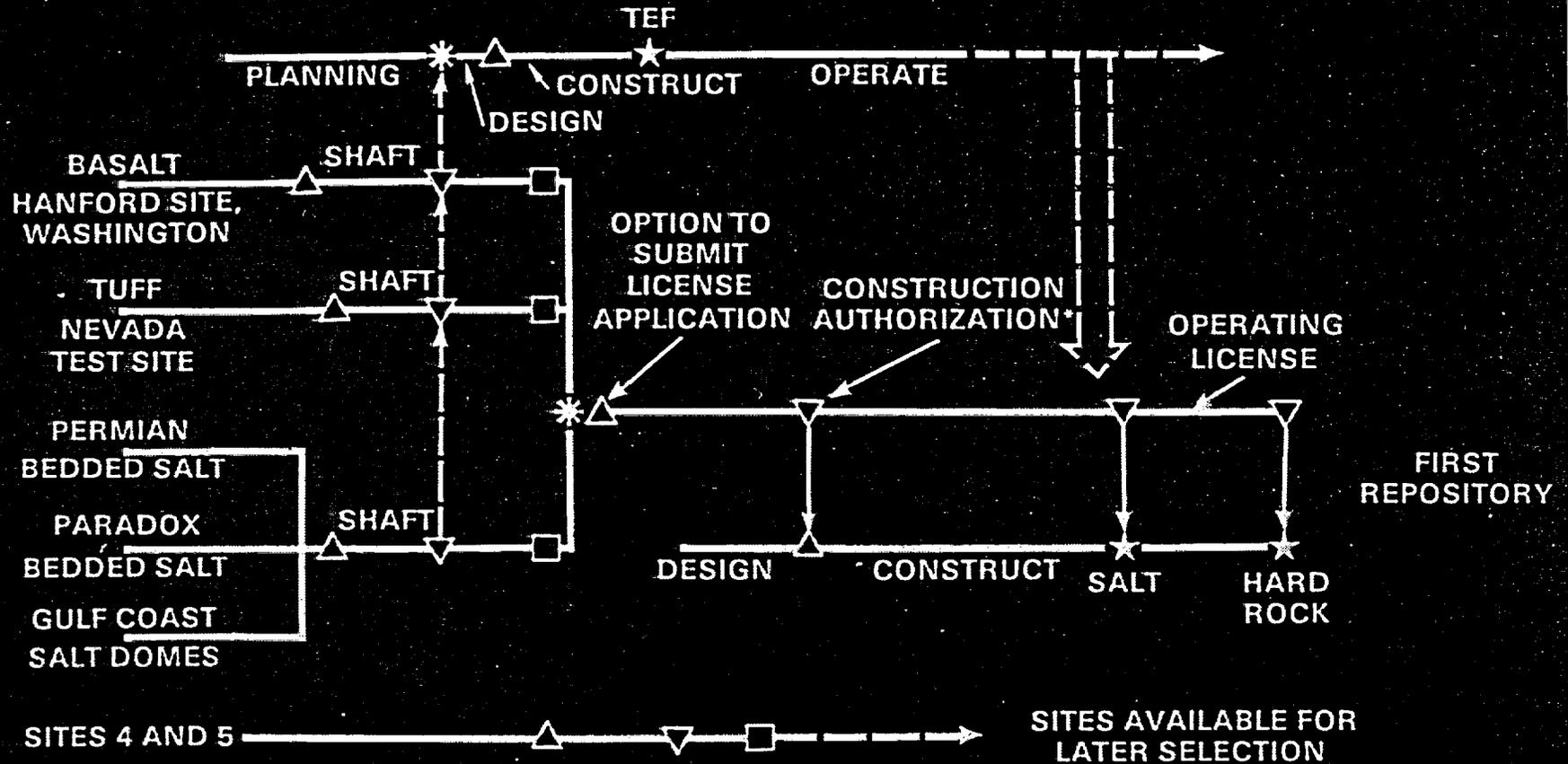
BY BILL BENNETT, DOE-RL



REGIONS STUDIED OR NOW BEING CONSIDERED FOR ISOLATION OF RADIOACTIVE WASTE

HIGH-LEVEL WASTE ISOLATION PROGRAM

FISCAL YEARS | 81 | 83 | 85 | 87 | 89 | 91 | 93 | 95 | 97 | 99 | 01 | 03 | 05 |



- △ START
- ▽ COMPLETE
- ★ STARTUP
- REPOSITORY SITE SUITABILITY DETERMINED
- * SITE SELECTION

TEF TEST AND EVALUATION FACILITY

*DEPENDING ON NRC REVIEW CYCLE

IMPACTS OF LEGISLATION OF NPTS PROGRAM

1. SITES FOR CHARACTERIZATION:

DOE - 3 SITES BY MID-1983

S. 1662 - 3 SITES BY 1/1/84 + 3 SITES BY 1/1/87

H.R. 7187 - 5 SITES BY 7/1/84 + 1 SITE BY 2/1/85

2. SCHEDULE

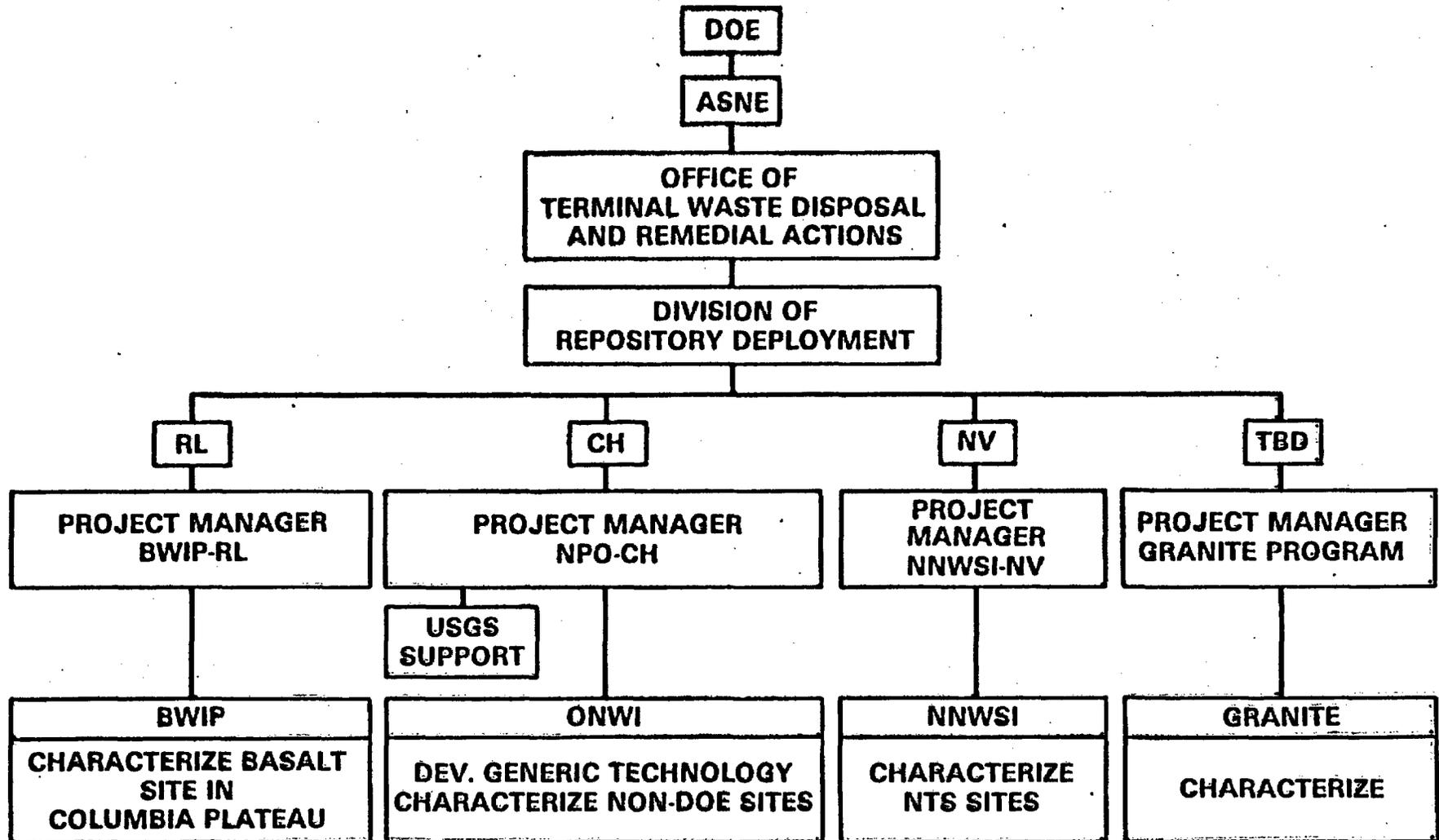
	<u>DOE</u>	<u>S.1662</u>	<u>H.R. 7187</u>
SITE RECOMMENDATION	9/87	1/1/86	3/31/87
SUBMITTAL OF LA	9/88	7/1/86	8/31/87
CA GRANTED	9/92	12/31/89	8/31/90
OPERATION	9/98	ASAP	1/31/98

IMPACTS OF LEGISLATION ON NWTS PROGRAM
(CONTINUED)

4. TEF

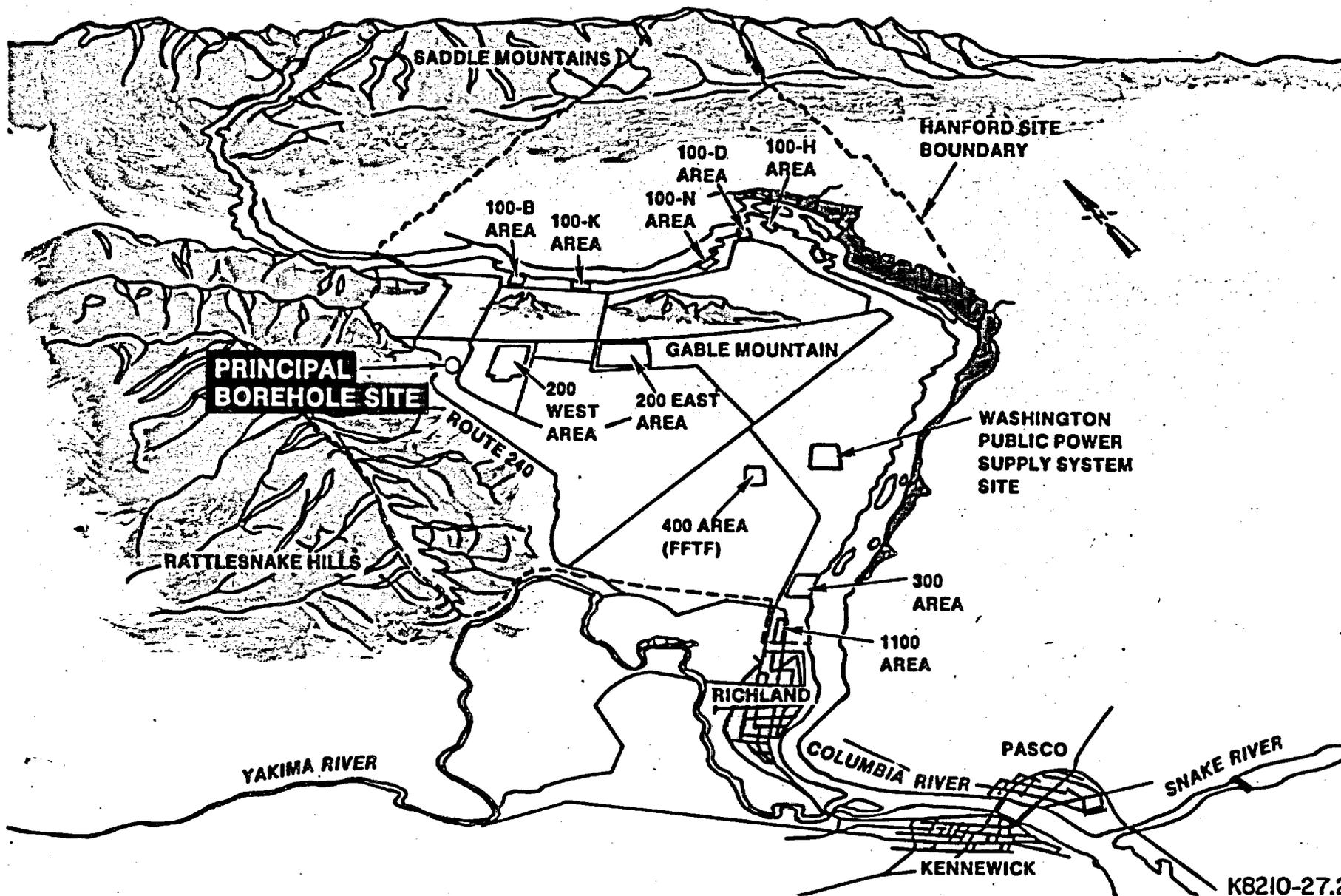
	<u>COLOCATION WITH REPOSITORY</u>	<u>START OPERATION</u>
DOE	UNSPECIFIED	9/89
S. 1662	EXCLUDED	1/1/88
H. R. 7187	ENCOURAGED	TIED TO SITE CHARACTERIZATION

PROPOSED NUCLEAR WASTE TERMINAL STORAGE HEADQUARTERS FIELD RELATIONSHIPS



LEGEND: RL - RICHLAND OPERATIONS OFFICE CH - CHICAGO OPERATIONS OFFICE
 TBD - TO BE DETERMINED NV - NEVADA OPERATIONS OFFICE

THE HANFORD SITE SHOWING PRINCIPAL BOREHOLE SITE



NNWSI REPOSITORY BLOCK

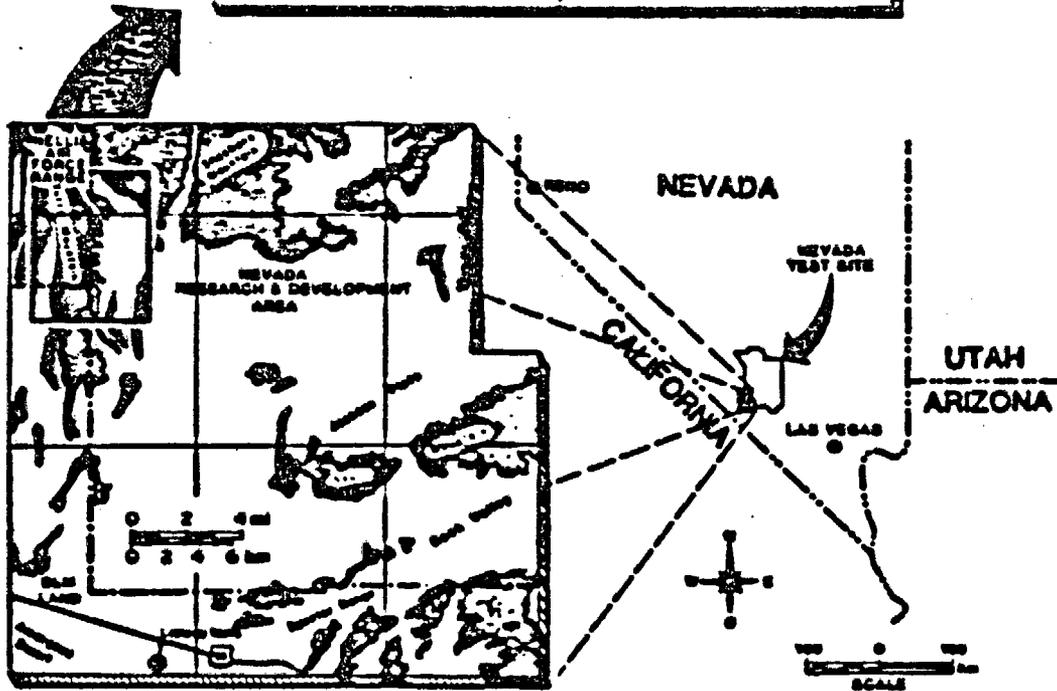
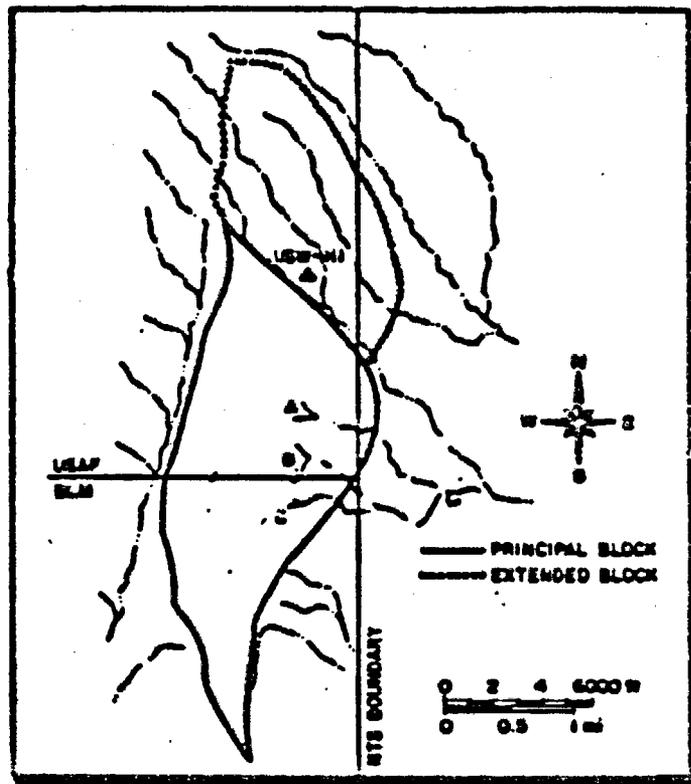
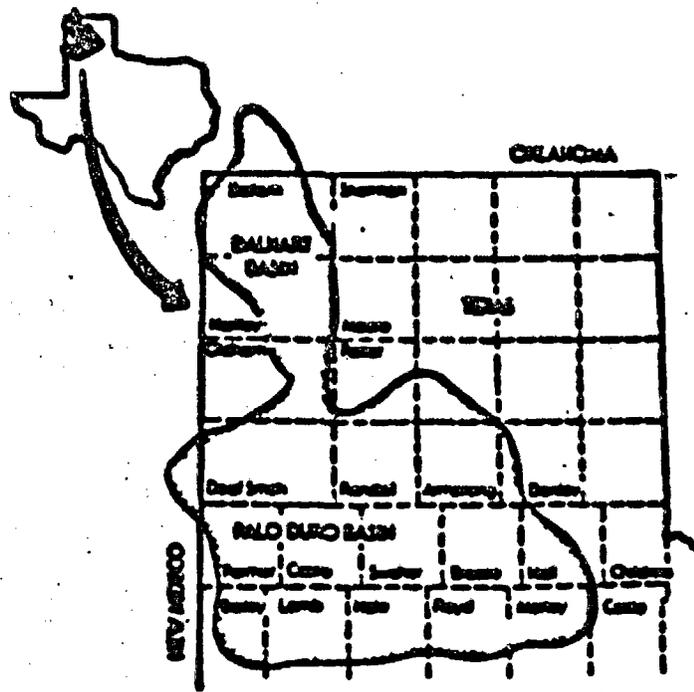
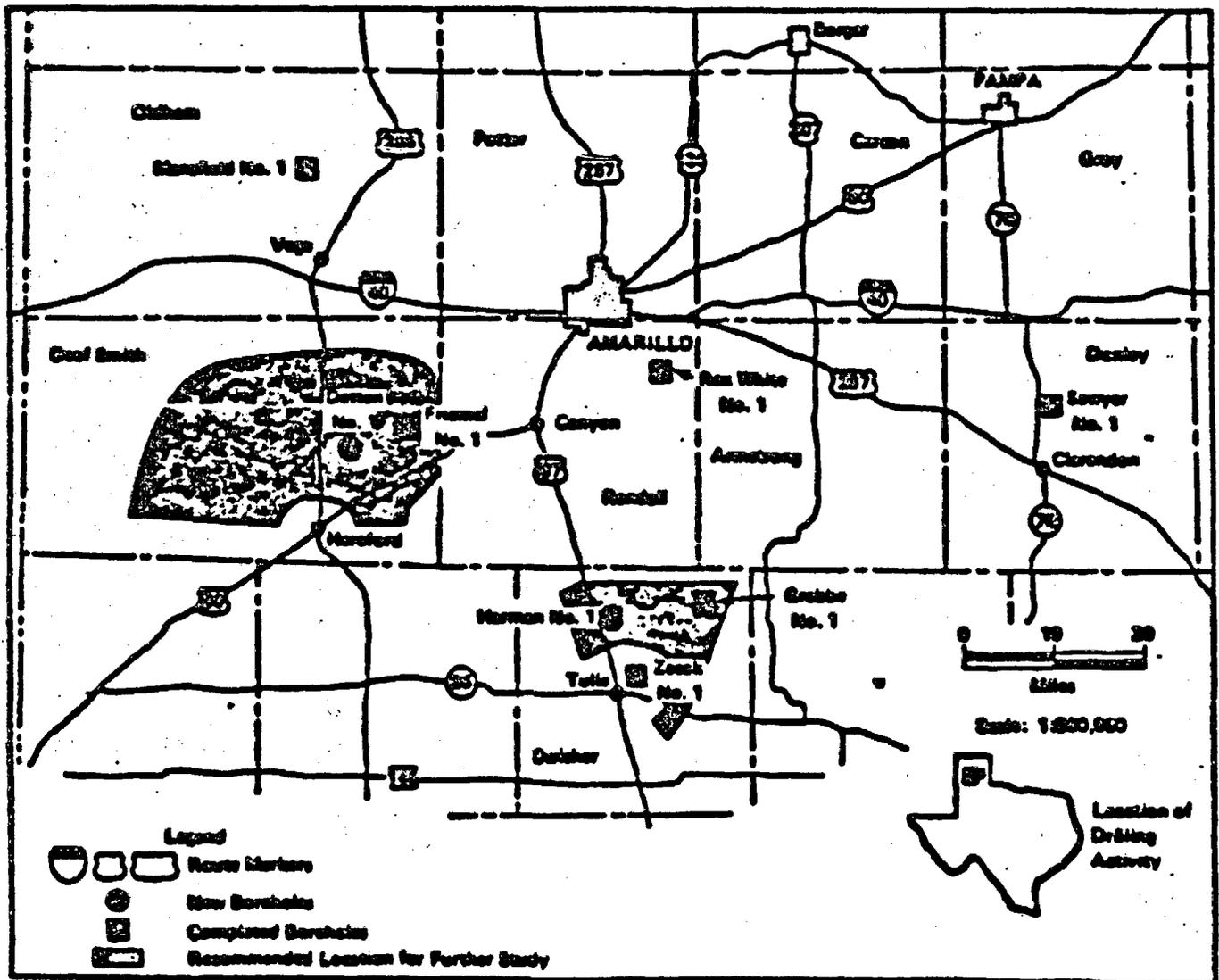


Fig. 1. Repository block location.



Dalhart and Palo Duro Study Areas



Palo Duro Basin Study Locations and Drill Sites

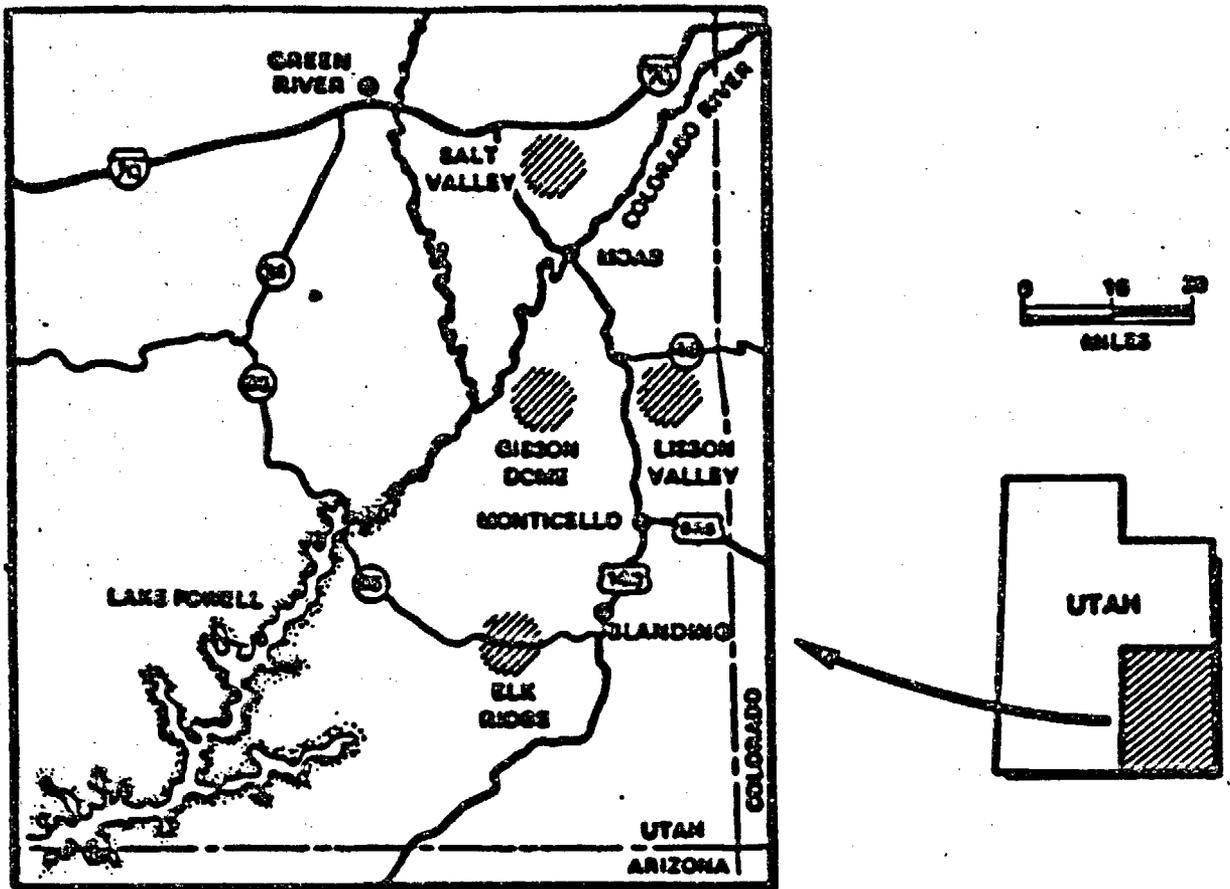


FIGURE 6. CLOSE-UP OF STUDY AREAS

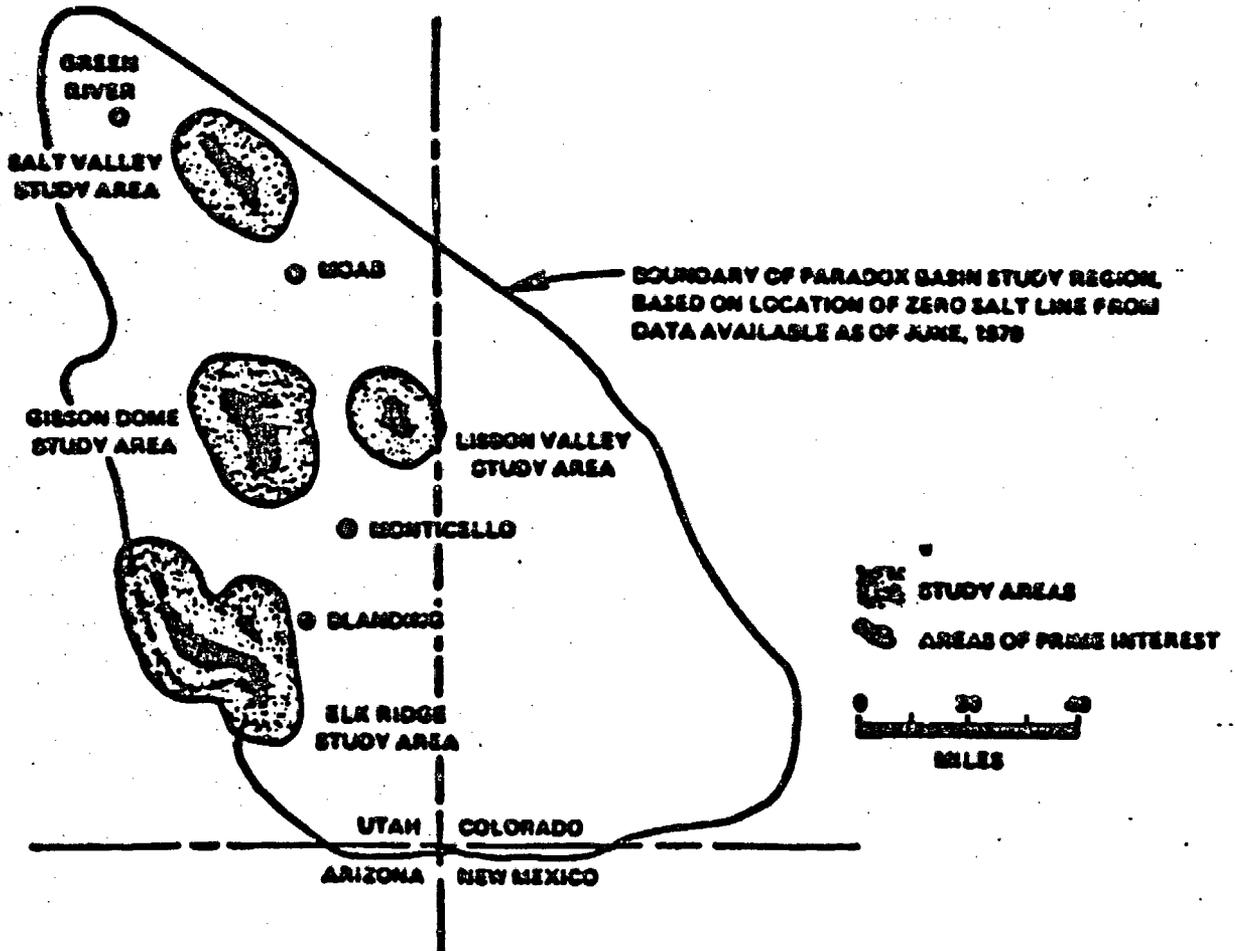
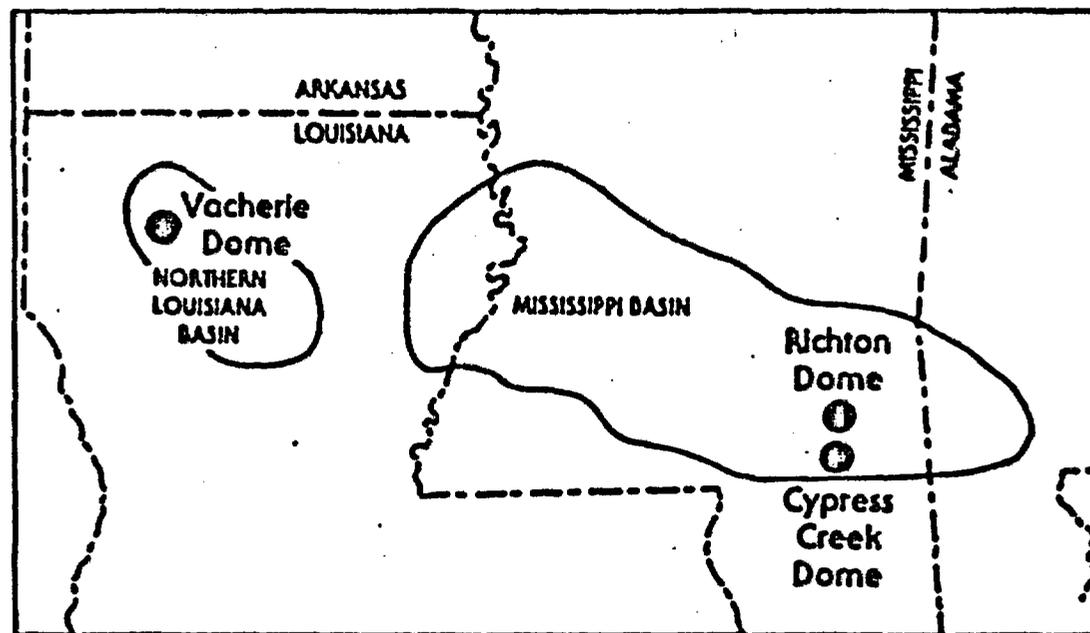
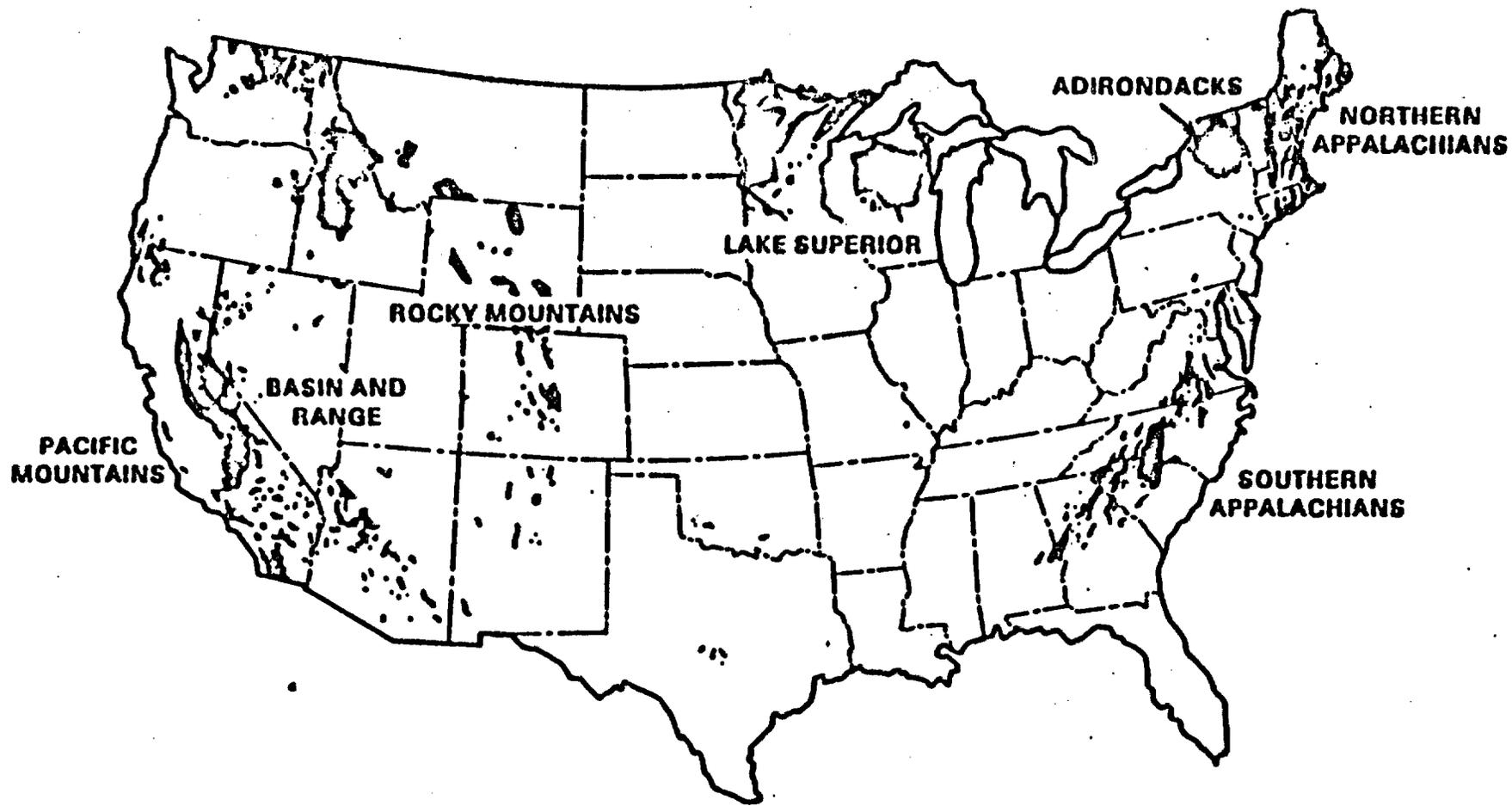


FIGURE 7. STUDY AREAS OF PRIME INTEREST



Gulf Domes Study Areas



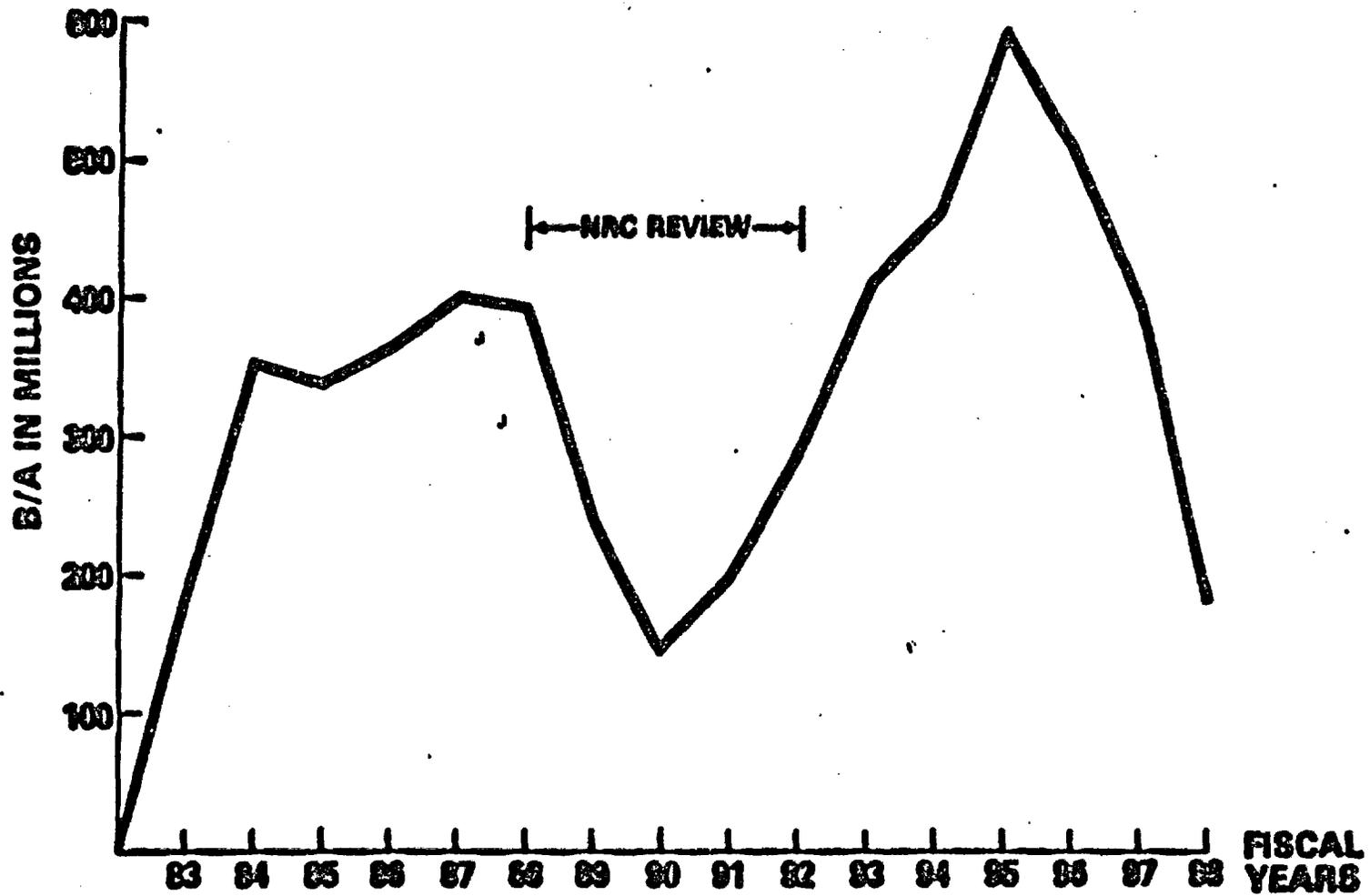
MAJOR REGIONS OF CRYSTALLINE ROCKS

NATIONAL WASTE TERMINAL STORAGE PROGRAM

(\$ IN MILLIONS)

	ESTIMATE/ ACTUAL <u>FY 1982</u>	PRESIDENT'S BUDGET <u>FY 1983</u>
PROJECT SPECIFIC R&D		
- BASALT	\$ 36.9	\$ 51.0*
- TUFF	\$ 48.7	\$ 60.5*
- SALT AND OTHER MEDIA	\$ 61.8	\$ 73.5*
- TECHNICAL SUPPORT	-	-
GENERIC R&D	\$ 40.5	\$ 50.4
STATE GRANTS	<u>\$ 0.7</u>	<u>\$ 2.0</u>
	\$ 188.6	\$ 237.4

*NUCLEAR WASTE DISPOSAL FUND



**PPL/TARGET/
 DECREMENTAL 185 352 337 370 401 397 241 149 200 294 413 485 591 507 389 183 TEC=65,474**

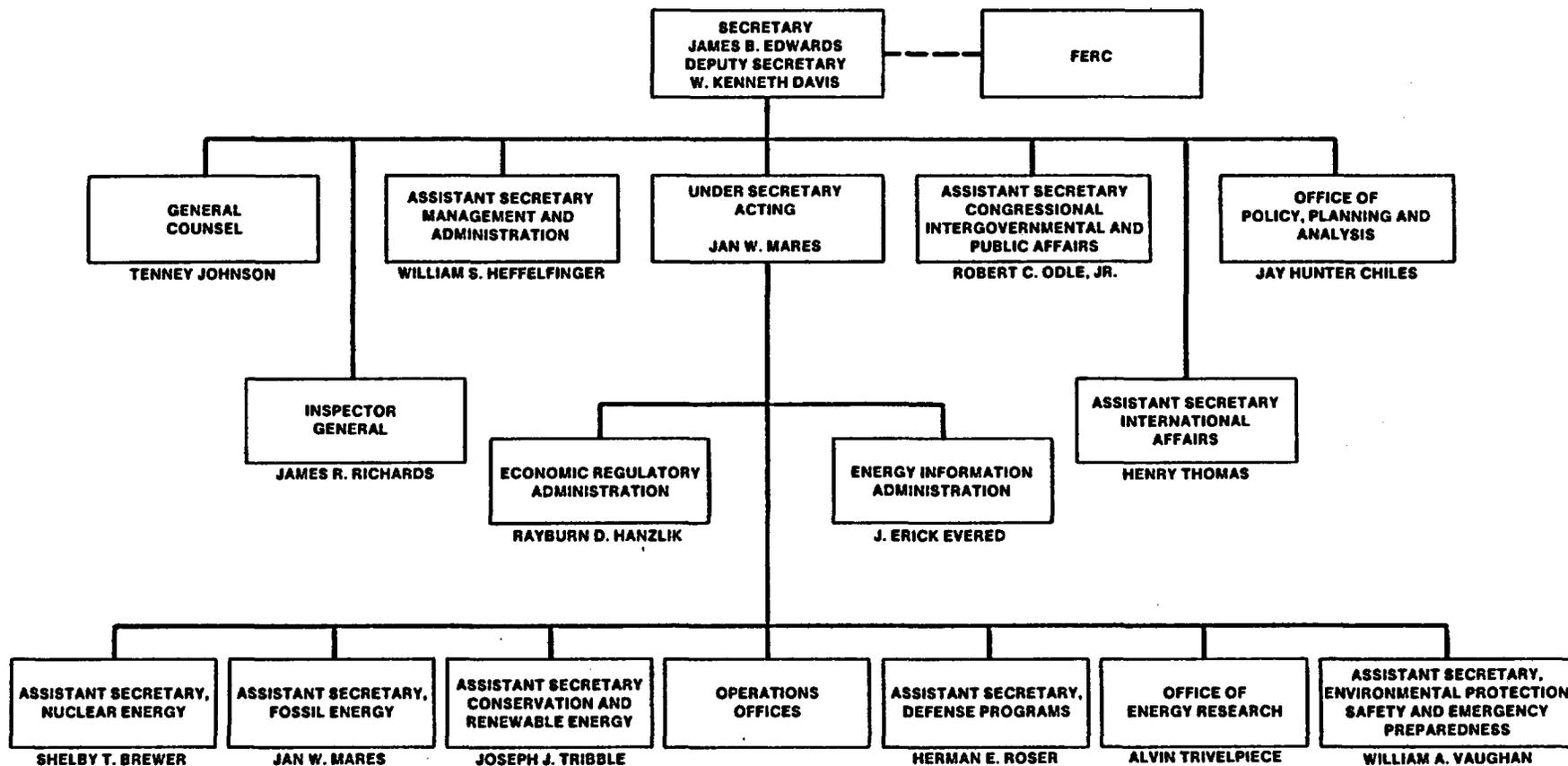
BWIP MANAGEMENT OVERVIEW PRESENTATION

BY LEE OLSON, DOE-RL

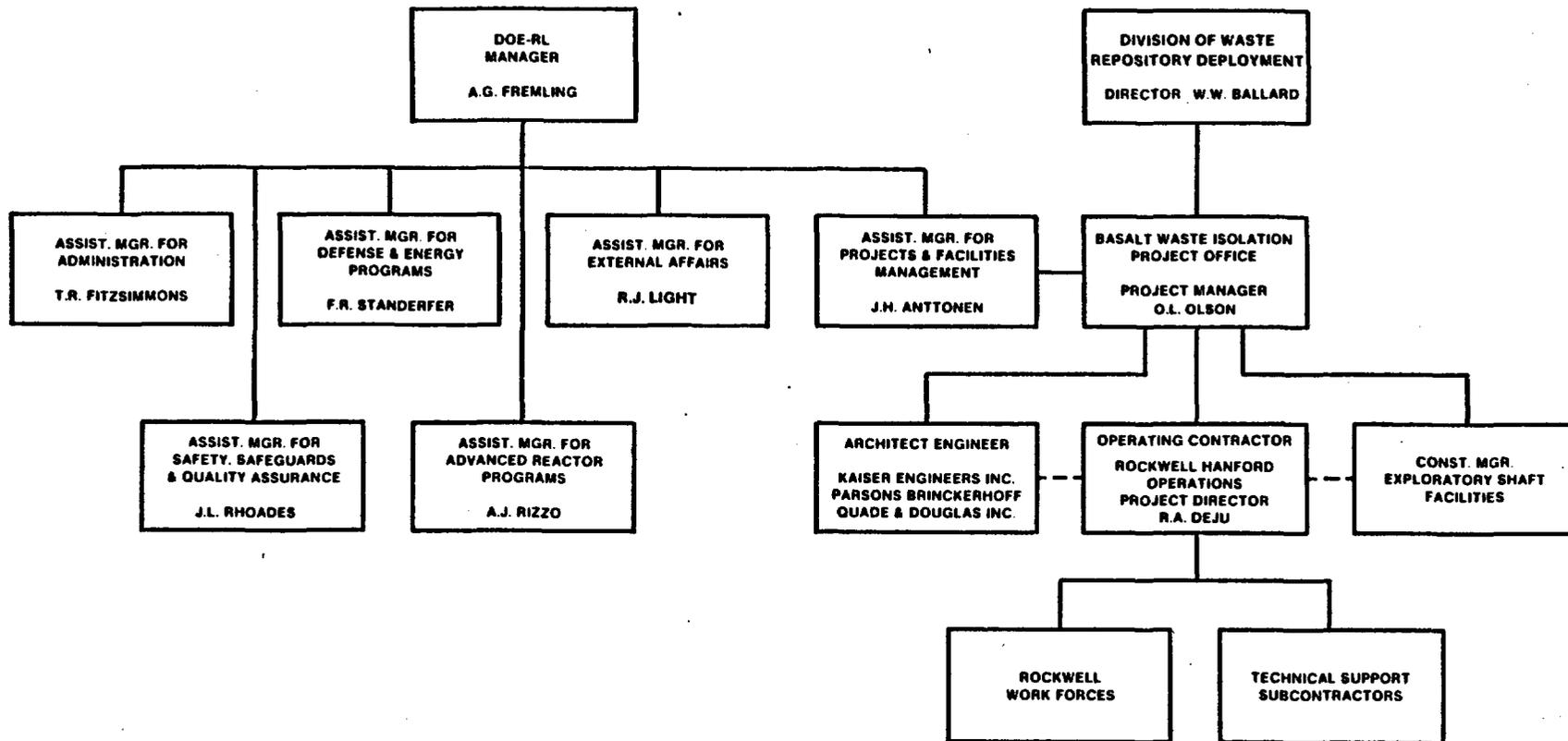


BASALT WASTE ISOLATION PROJECT

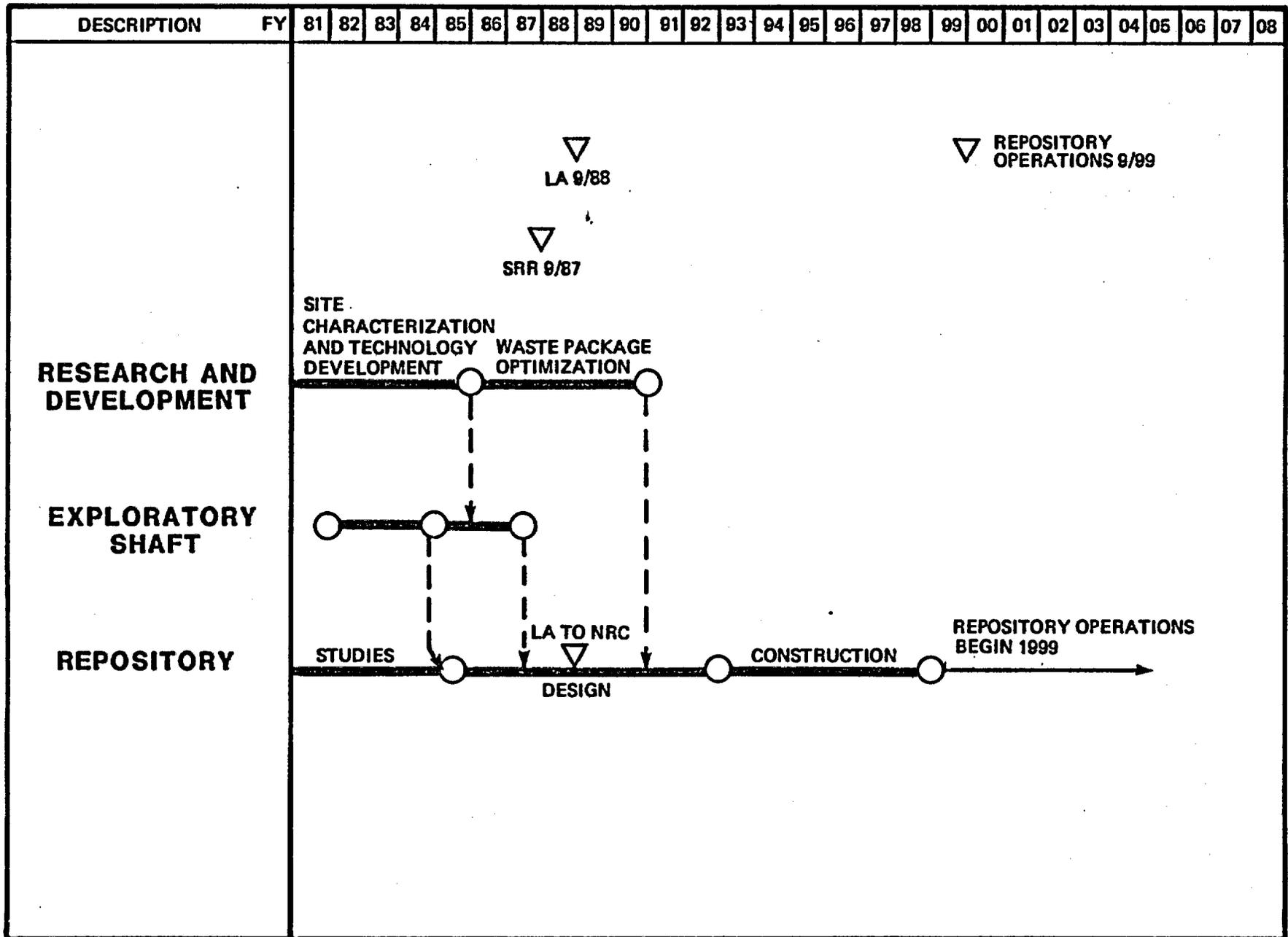
U.S. DEPARTMENT OF ENERGY



BASALT WASTE ISOLATION PROJECT PROJECT MANAGEMENT ORGANIZATION



BASALT WASTE ISOLATION PROJECT (CURRENT PLAN)



EXTERNAL AFFAIRS ACTIVITIES

- STATE OF WASHINGTON TASK FORCE ON HIGH-LEVEL NUCLEAR WASTE MANAGEMENT
 - PUBLIC INFORMATION MEETINGS
 - PEER REVIEWS AND OVERVIEWS
 - SPEAKERS BUREAU
 - TOURS AND BRIEFINGS
 - MEDIA TOURS AND BRIEFINGS
 - DOCUMENTS AND REPORTS
 - AUDIO-VISUAL DOCUMENTATION
 - NWTS INFORMATION NETWORK
- MEETING DATE: OCTOBER 22, 1982
- AUGUST 1979, NOVEMBER 1978, DECEMBER 1979, DECEMBER 1980
TOTAL ATTENDANCE: 1552
- 32 INDIVIDUAL MEETINGS HELD
- 32 PRESENTATIONS
- APPROXIMATELY 6000 VISITORS TO NSTF IN MORE THAN 450 TOURS
- 49 MEDIA TOURS
- 432 INDIVIDUAL REPORTS ISSUED
- PHOTOGRAPHIC AND VIDEOTAPE ACTIVITIES
- NWTS INFORMATION MEETING
 - NWTS PROGRESS REPORT
 - COOPERATIVE DISPLAY AND AUDIO-VISUAL PRODUCTION

BWIP PROGRAM SUMMARY PRESENTATION

BY R. A. DEJU AND R. J. GIMERA, ROCKWELL

Basalt Waste Isolation Project

Operated by

Rockwell-Hanford Operations

for the

U.S. Department of Energy

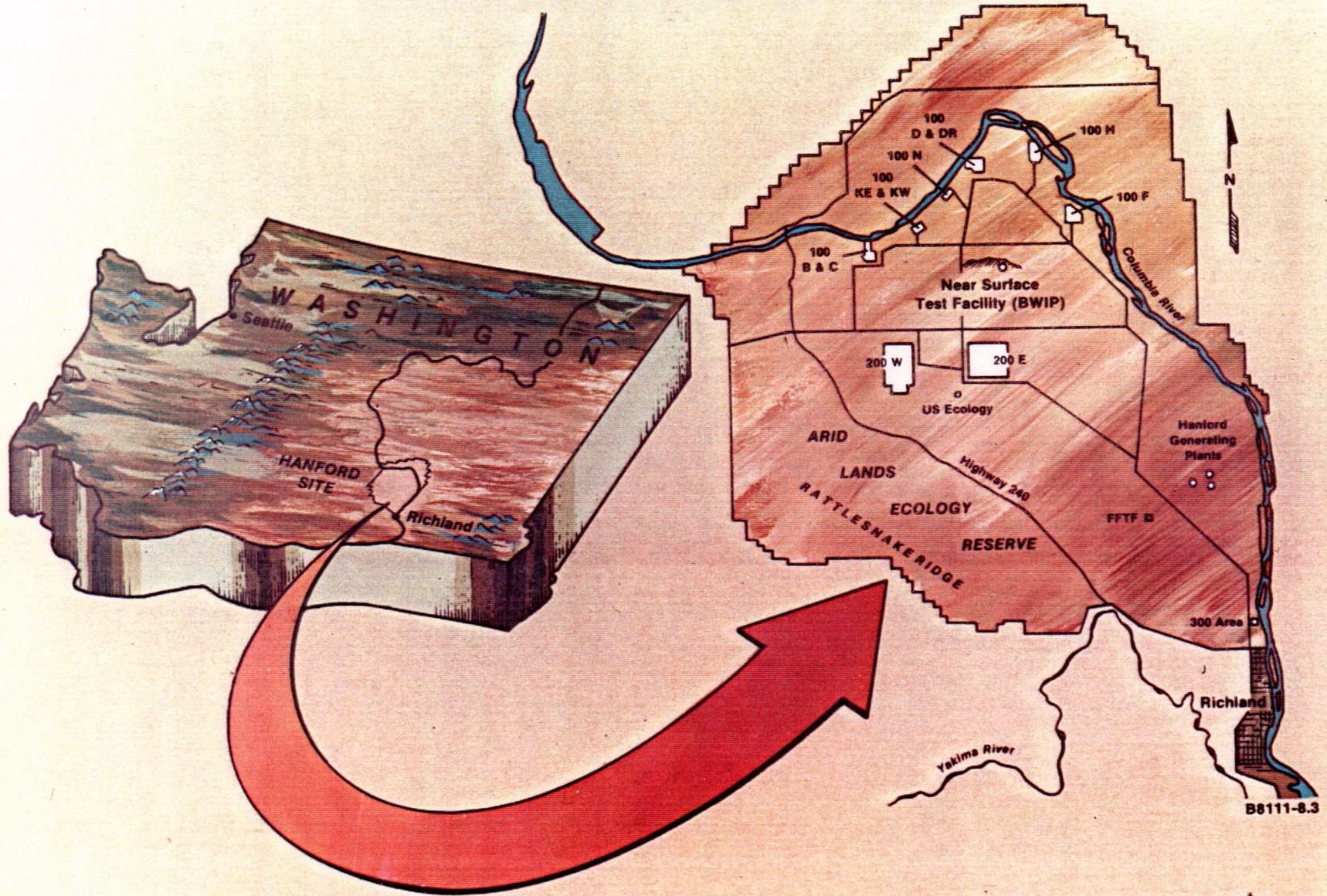


1982

BWIP OBJECTIVE

- **To assess the feasibility of siting, constructing, and operating a repository in the basalts underlying the Hanford Site.**
- **To provide the engineering technology needed for the detailed design of a basalt repository.**

THE HANFORD SITE

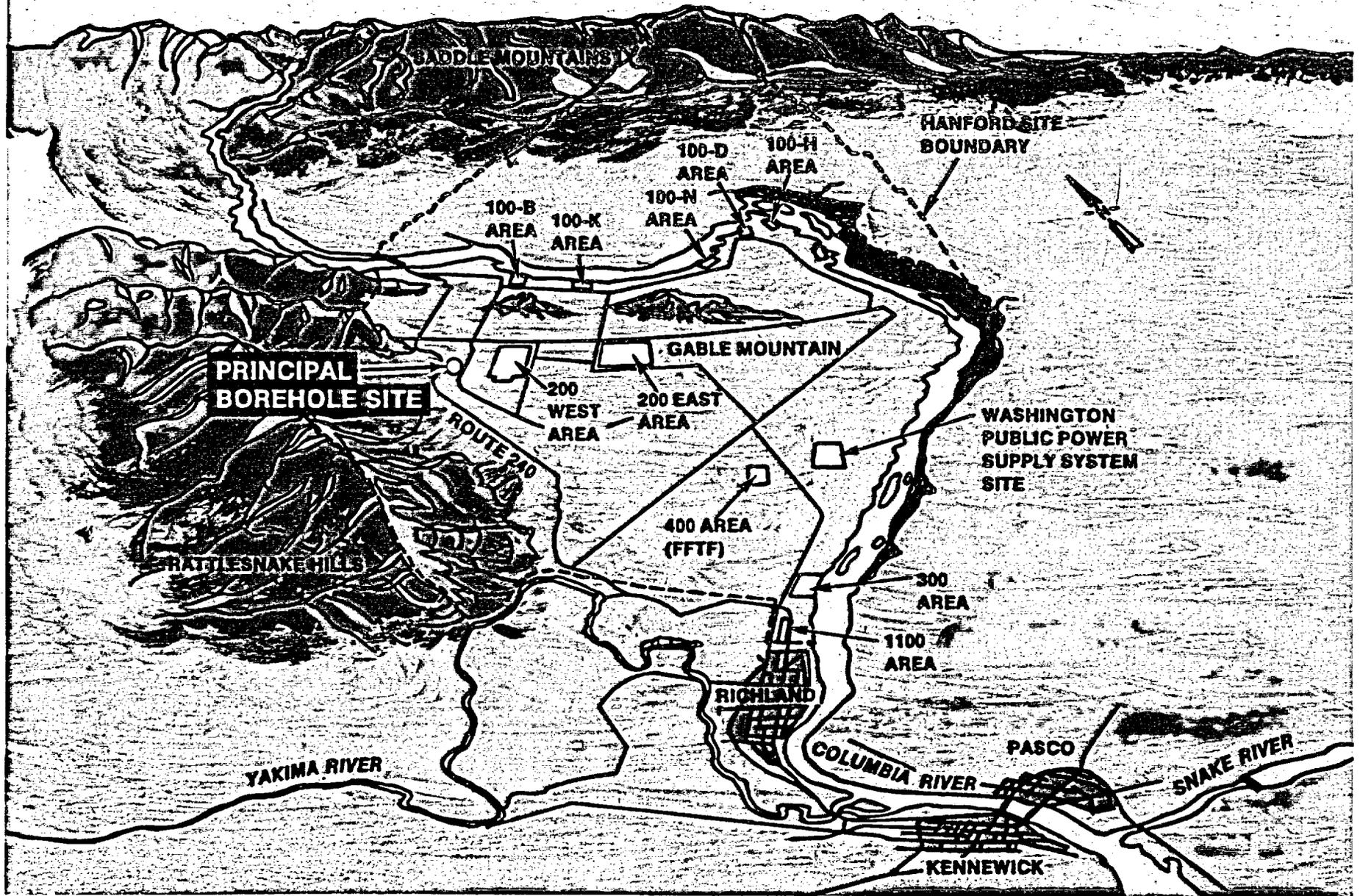


KEY TECHNICAL ISSUES

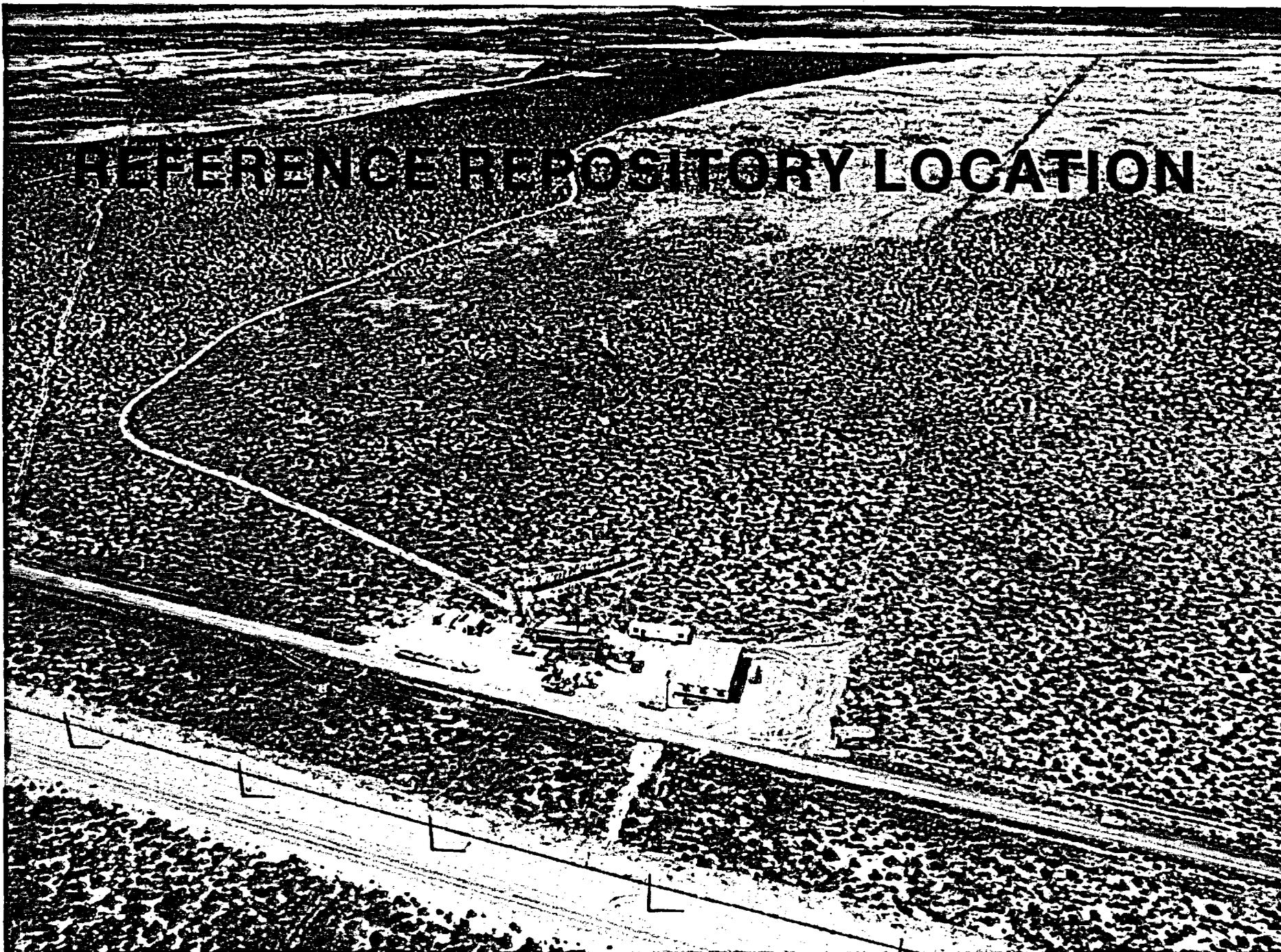
- **WHAT IS THE TOTAL AMOUNT (ACTIVITY) OF RADIONUCLIDES POTENTIALLY RELEASABLE TO THE ACCESSIBLE ENVIRONMENT IN A 10,000-YEAR PERIOD, AND IS THIS AMOUNT IN COMPLIANCE WITH APPROPRIATE U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS?**
- **CAN STABILITY AND ISOLATION CAPABILITY OF THE REPOSITORY BE MAINTAINED IN THE PRESENCE OF COUPLED IN SITU, EXCAVATION-INDUCED, AND THERMAL-INDUCED STRESSES?**
- **CAN REPOSITORY SHAFTS, TUNNELS, AND EXPLORATORY BOREHOLES BE CONSTRUCTED AND SEALED WITHOUT CAUSING PREFERENTIAL PATHWAYS FOR GROUNDWATER OR INCREASING THE POTENTIAL FOR RADIONUCLIDE MIGRATION FROM A NUCLEAR WASTE REPOSITORY SUCH THAT COMPLIANCE WITH APPROPRIATE U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS IS NOT POSSIBLE?**

**SITE
CHARACTERIZATION**

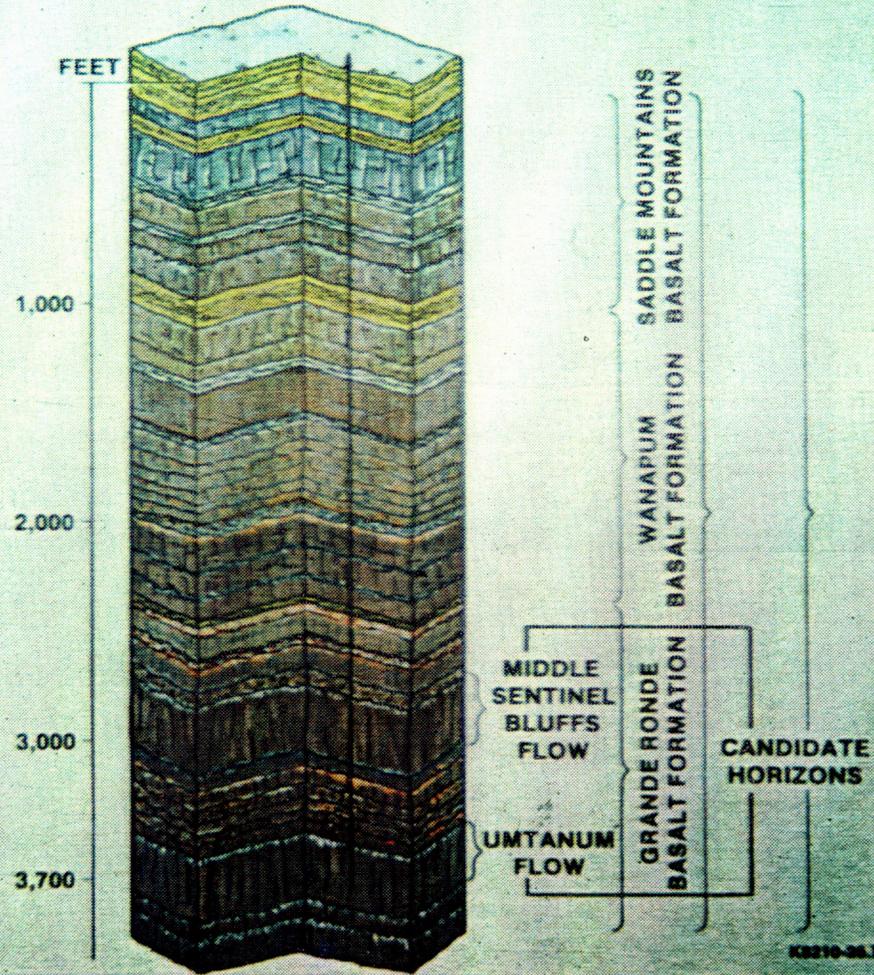
THE HANFORD SITE SHOWING PRINCIPAL BOREHOLE SITE



REFERENCE REPOSITORY LOCATION



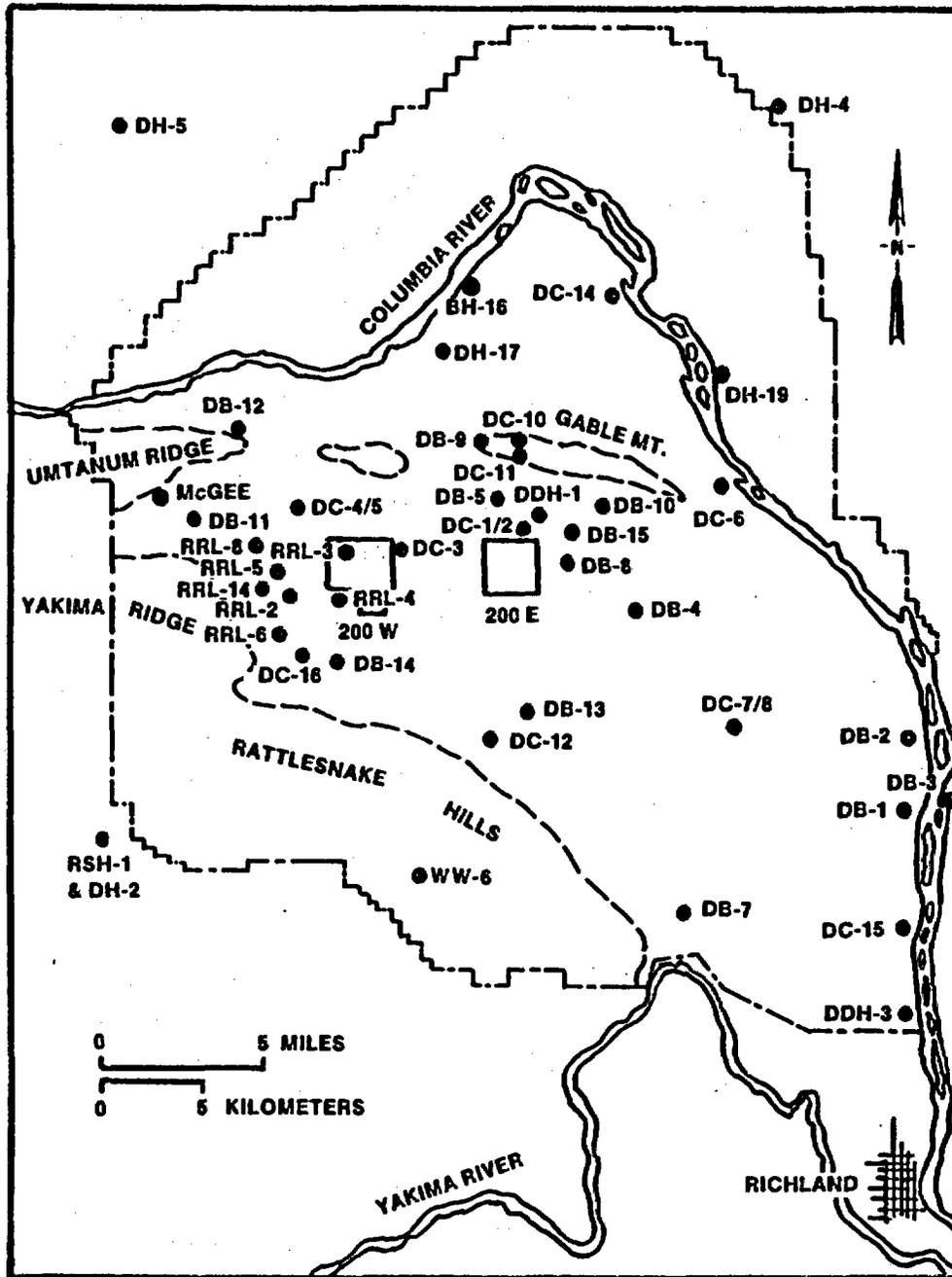
**GENERALIZED STRATIGRAPHY OF THE COLUMBIA RIVER
BASALT GROUP, YAKIMA BASALT SUBGROUP, AND
INTERCALATED AND SUPRABASALT SEDIMENTS WITHIN
THE PASCO BASIN**

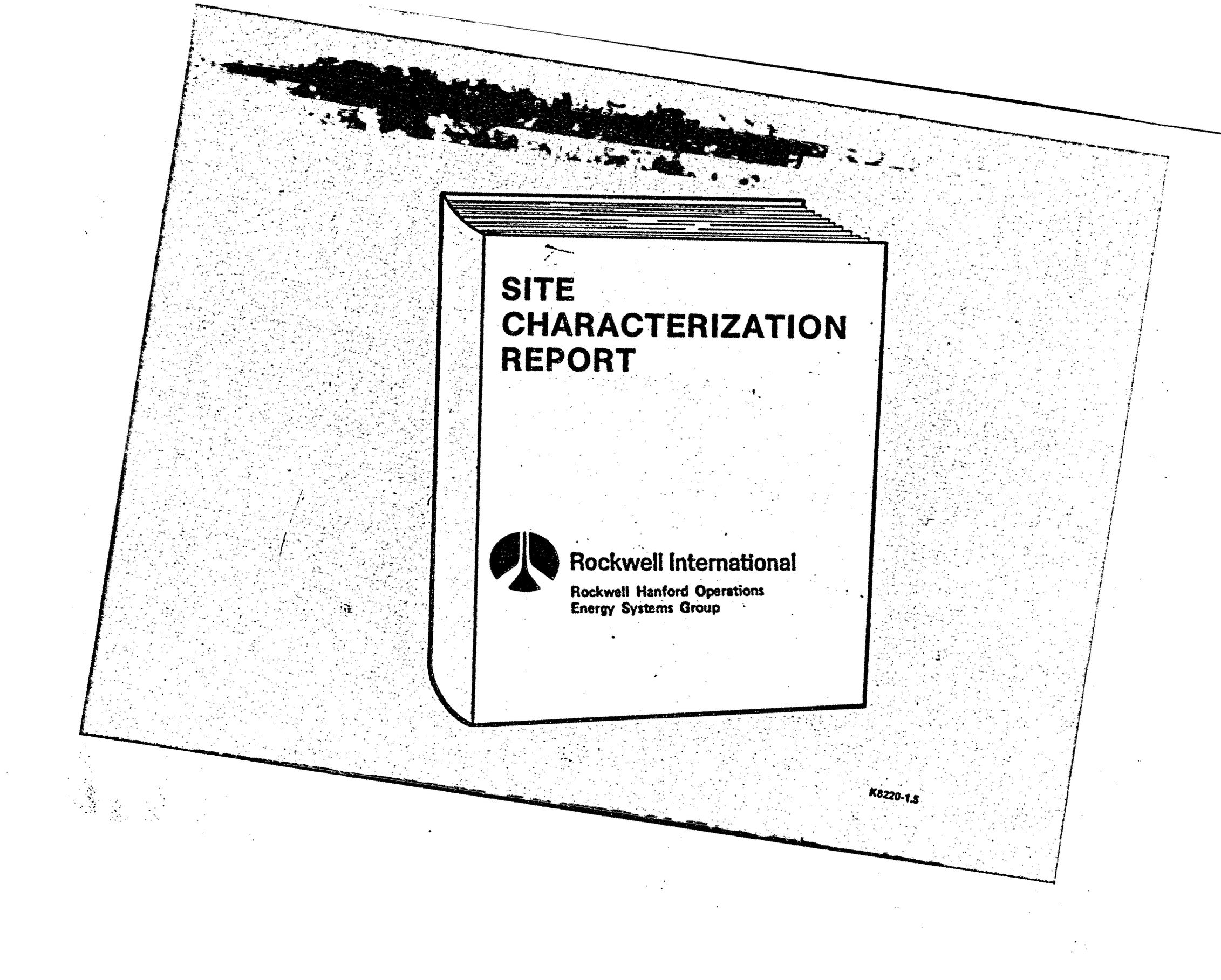


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C02

DRILLING AND HYDROLOGIC TESTING SITES TO DATE





**SITE
CHARACTERIZATION
REPORT**



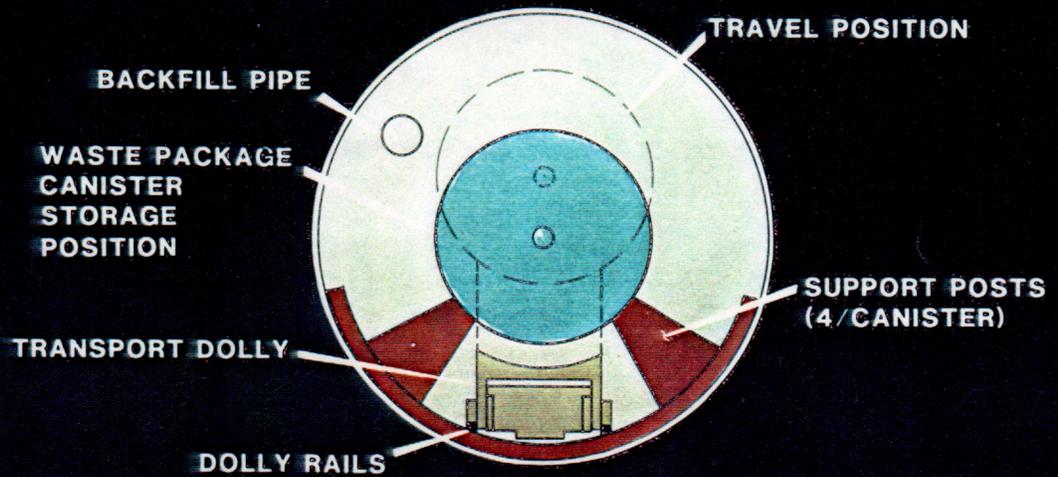
Rockwell International

Rockwell Hanford Operations
Energy Systems Group

K8220-1.5

WASTE PACKAGE

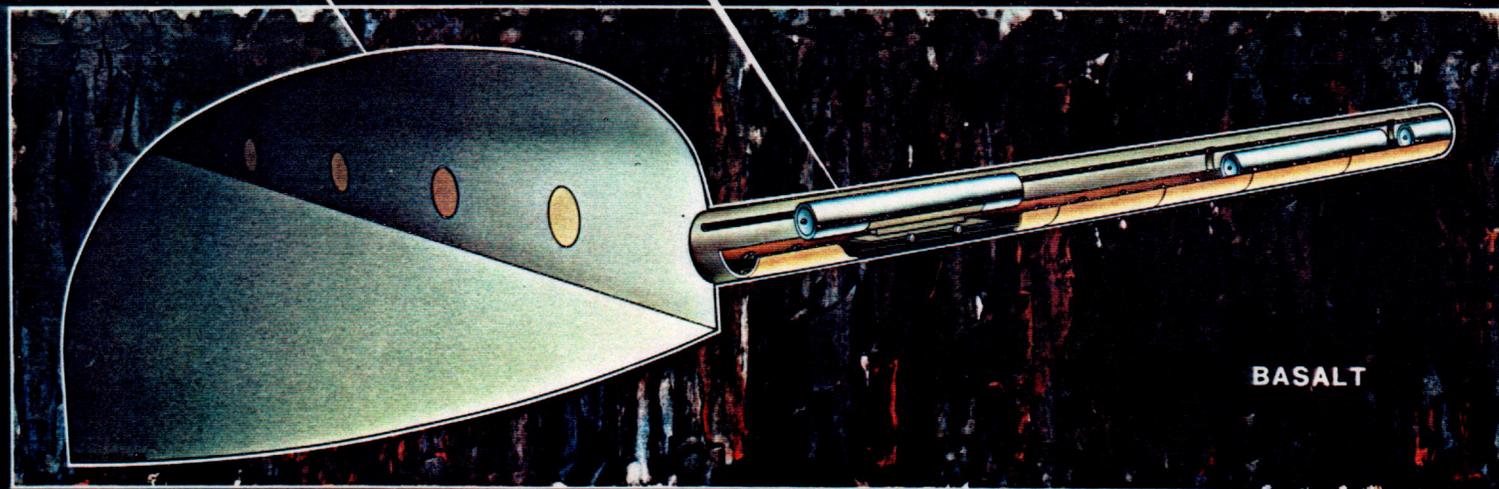
**NWRB REFERENCE
WASTE PACKAGE
CONCEPTUAL DESIGN**



END VIEW DETAIL

PLACEMENT ROOM

HORIZONTAL
LONG HOLE (BETWEEN
PLACEMENT ROOMS)



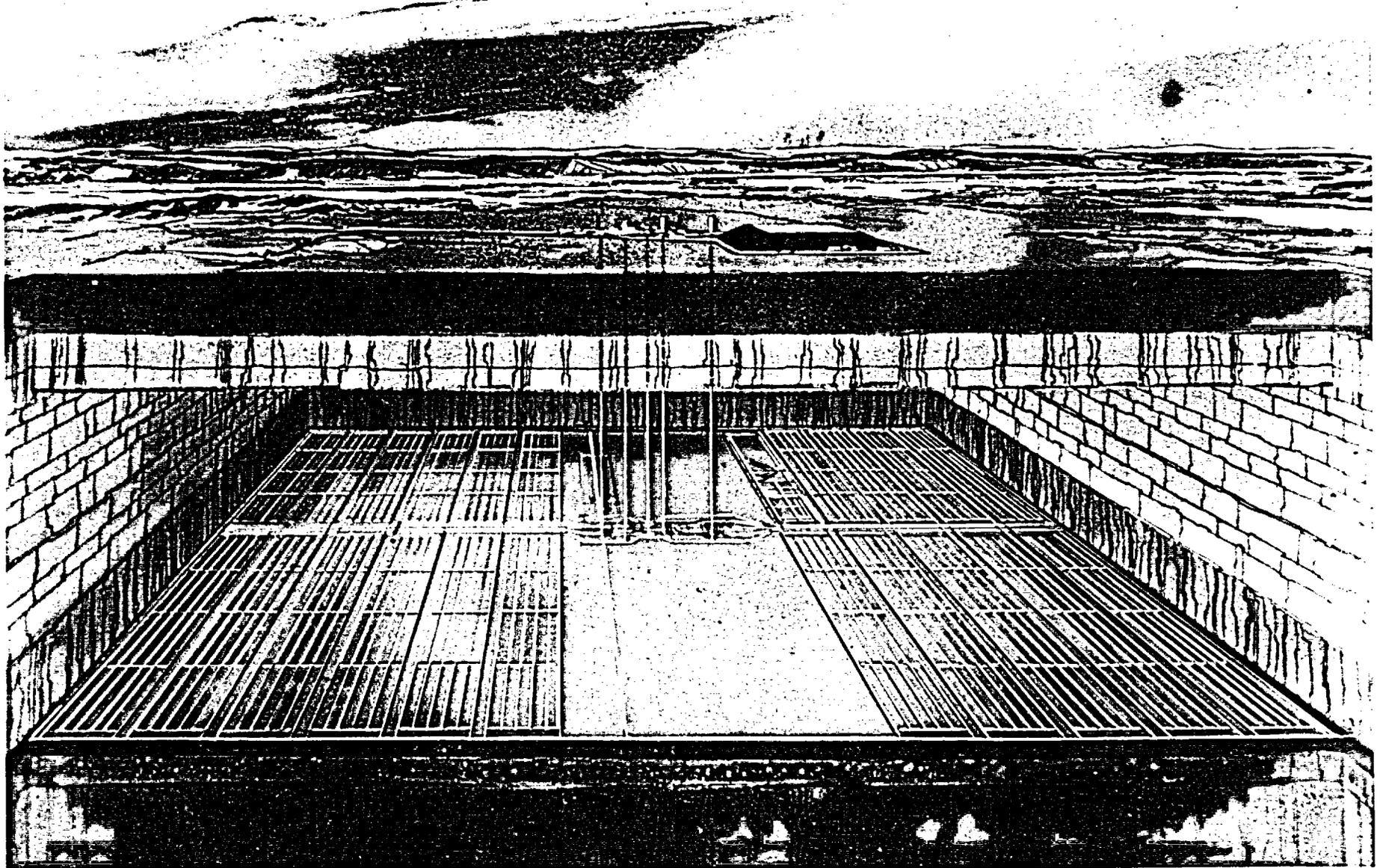
BASALT

C03

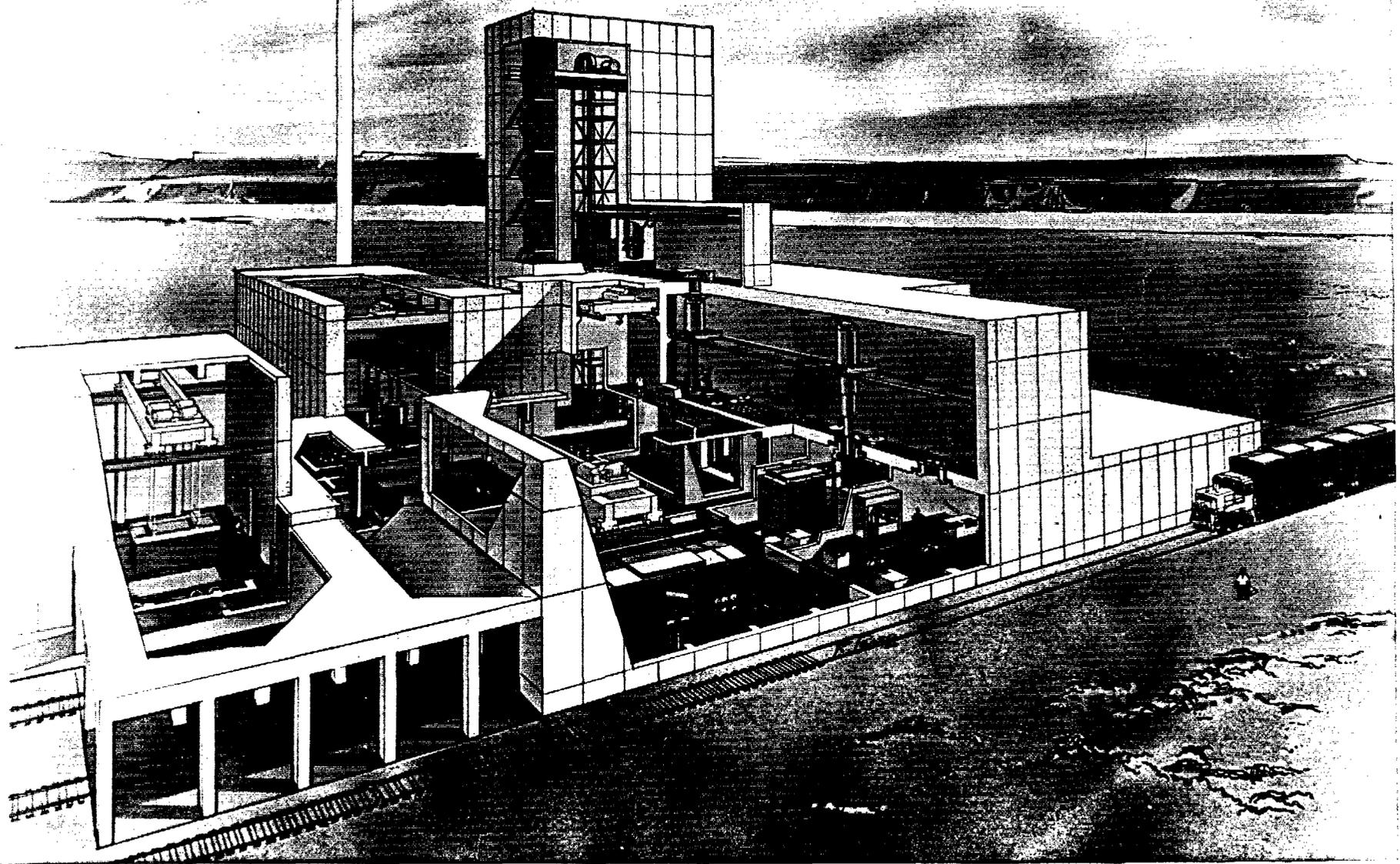
REPOSITORY DESIGN

NUCLEAR WASTE REPOSITORY IN BASALT

CONCEPTUAL DESIGN CUTAWAY



WASTE HANDLING FACILITY

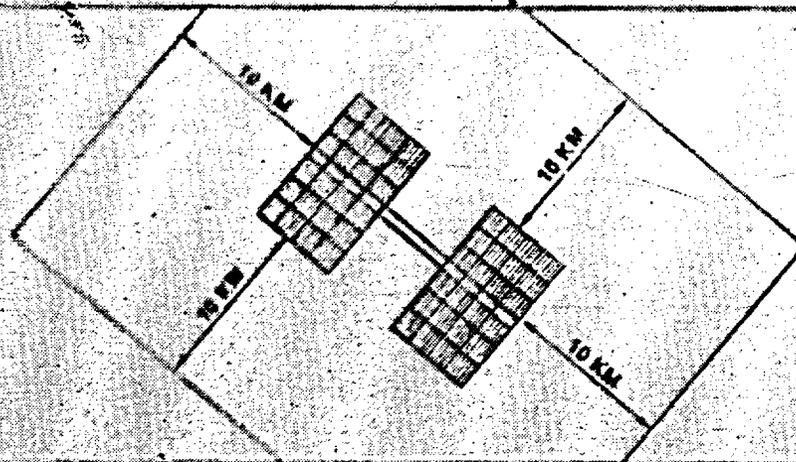


PERFORMANCE ASSESSMENT

BWIP PERFORMANCE ASSESSMENT APPROACH



**TEST COMPLIANCE WITH NRC CRITERIA
FOR GROUNDWATER TRANSIT TIME**

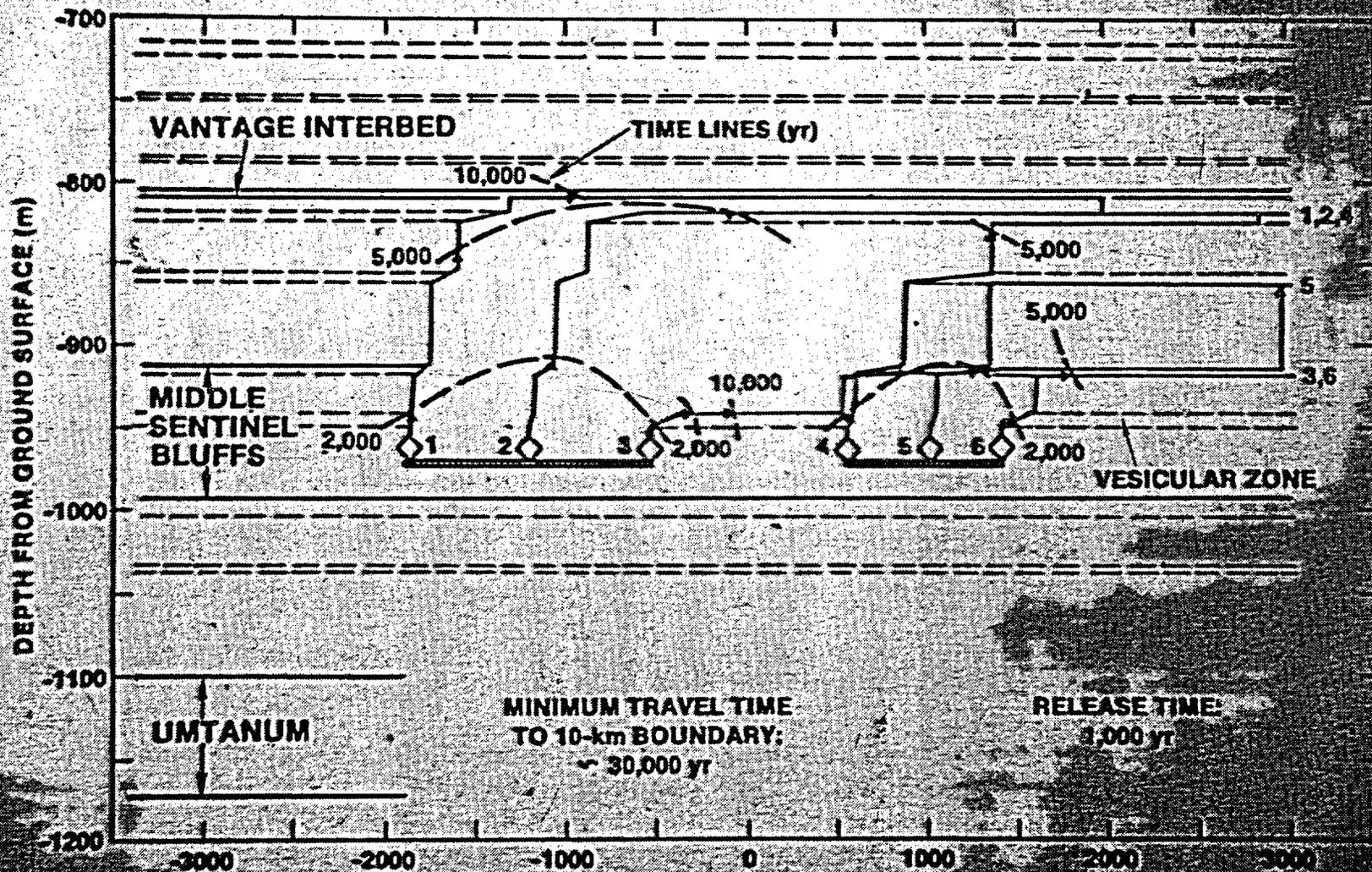


**TEST COMPLIANCE WITH EPA RELEASES
TO THE ACCESSIBLE ENVIRONMENT**

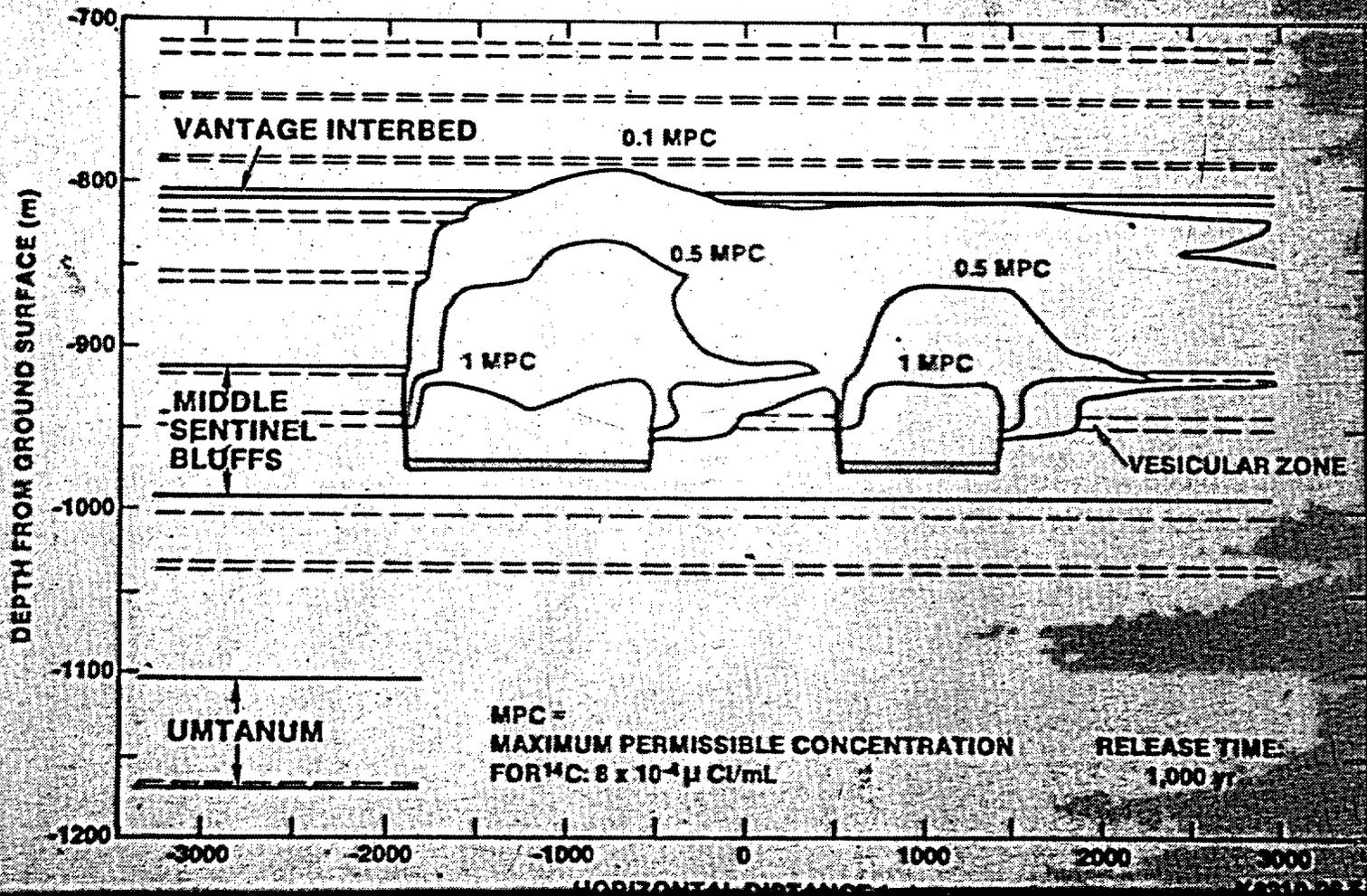


**TEST COMPLIANCE WITH NRC CRITERIA
FOR REPOSITORY RELEASE RATE**

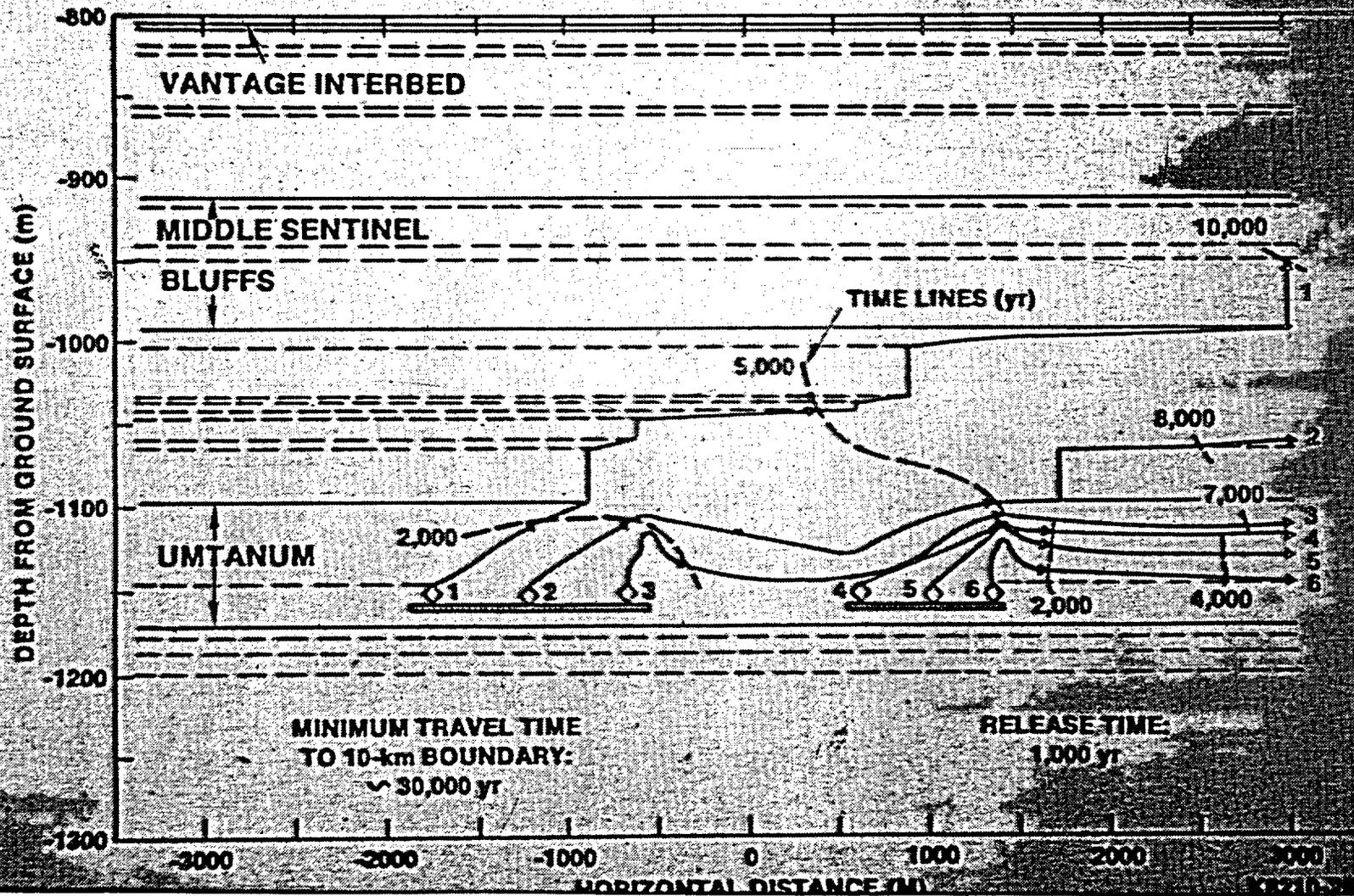
GROUNDWATER PATHLINES AND TRAVEL TIMES FOR MIDDLE SENTINEL BLUFFS: NO-DISRUPTION BASE CASE



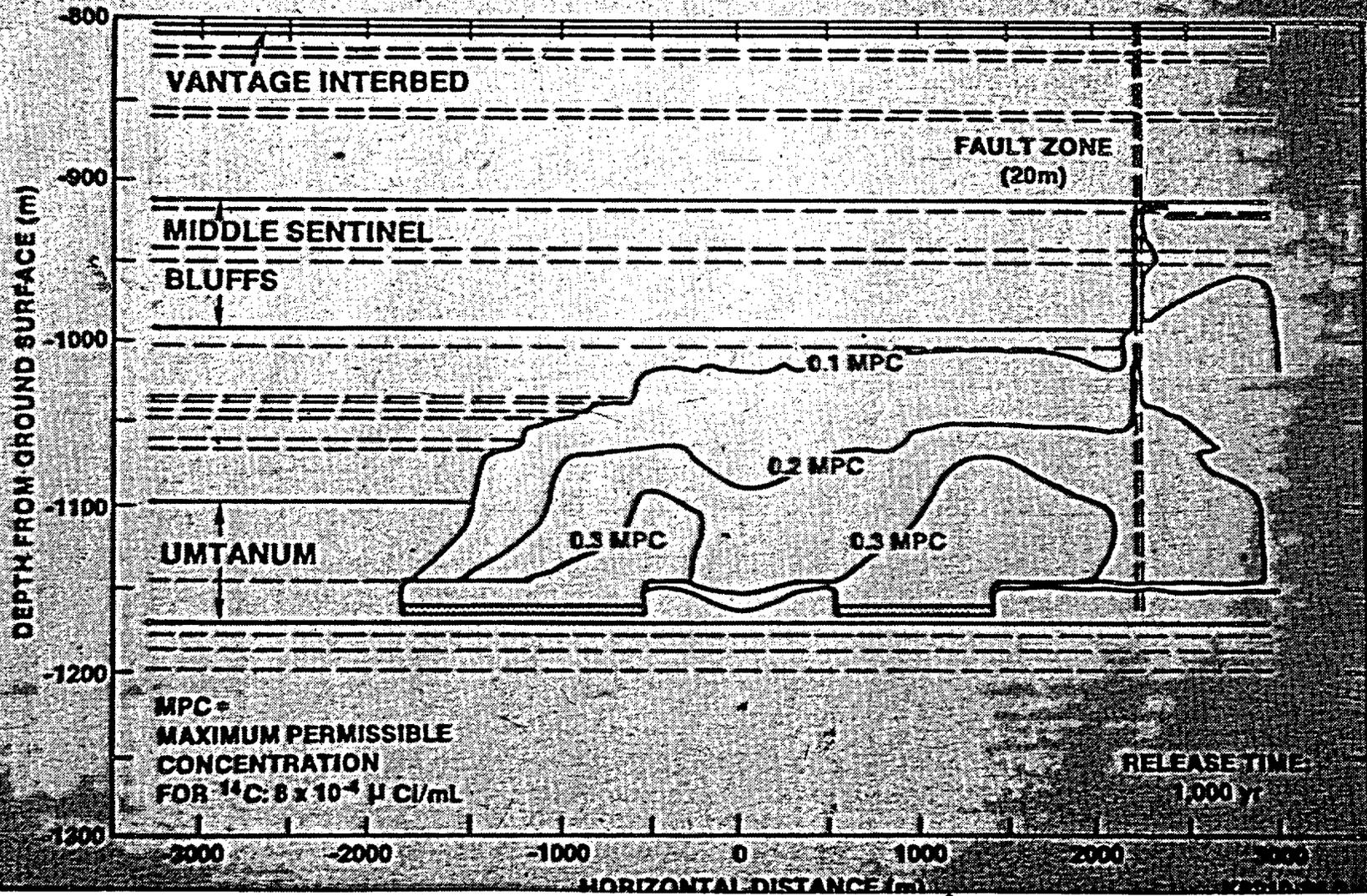
CARBON-14 CONCENTRATION CONTOURS AT 10,000 YEARS FOR MIDDLE SENTINEL BLUFFS: NO-DISRUPTION BASE CASE



GROUNDWATER PATHLINES AND TRAVEL TIMES FOR UMTANUM: NO-DISRUPTION BASE CASE



CARBON-14 CONCENTRATION CONTOURS FOR UMTANUM: FAULT SCENARIO



PERFORMANCE ASSESSMENT SUMMARY

TRANSIT TIME TO 10 KILOMETER BOUNDARY

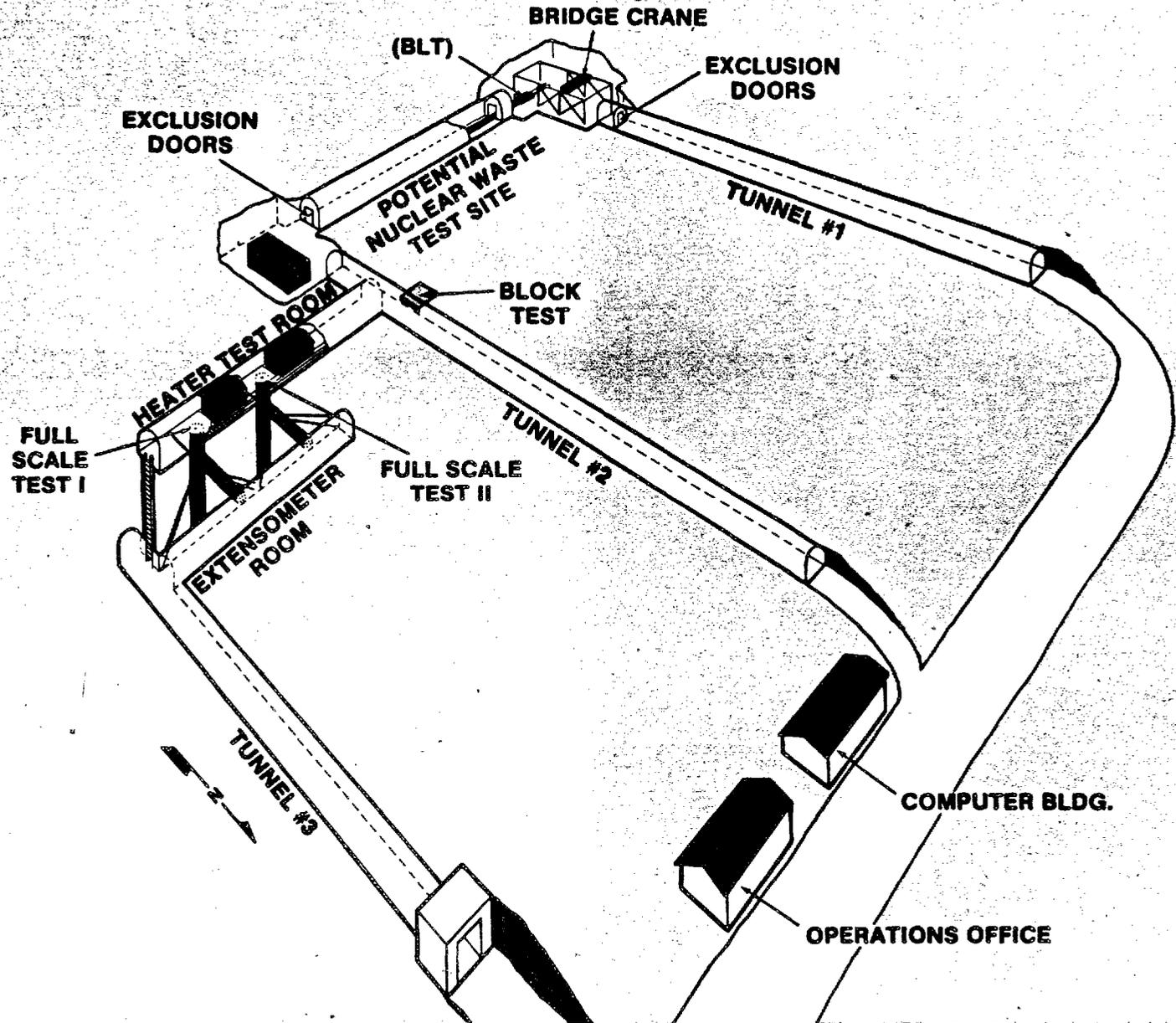
- REPOSITORY AT MIDDLE SENTINEL BLUFFS 30,000 - 40,000 YEARS
- REPOSITORY AT UMTANUM 30,000 - 37,000 YEARS
- FAULT SCENARIO AT MIDDLE SENTINEL BLUFFS 30,000 - 41,000 YEARS
- FAULT SCENARIO AT UMTANUM 30,000 - 36,000 YEARS

FLUX AT 10 KILOMETER BOUNDARY, 10,000 YEARS

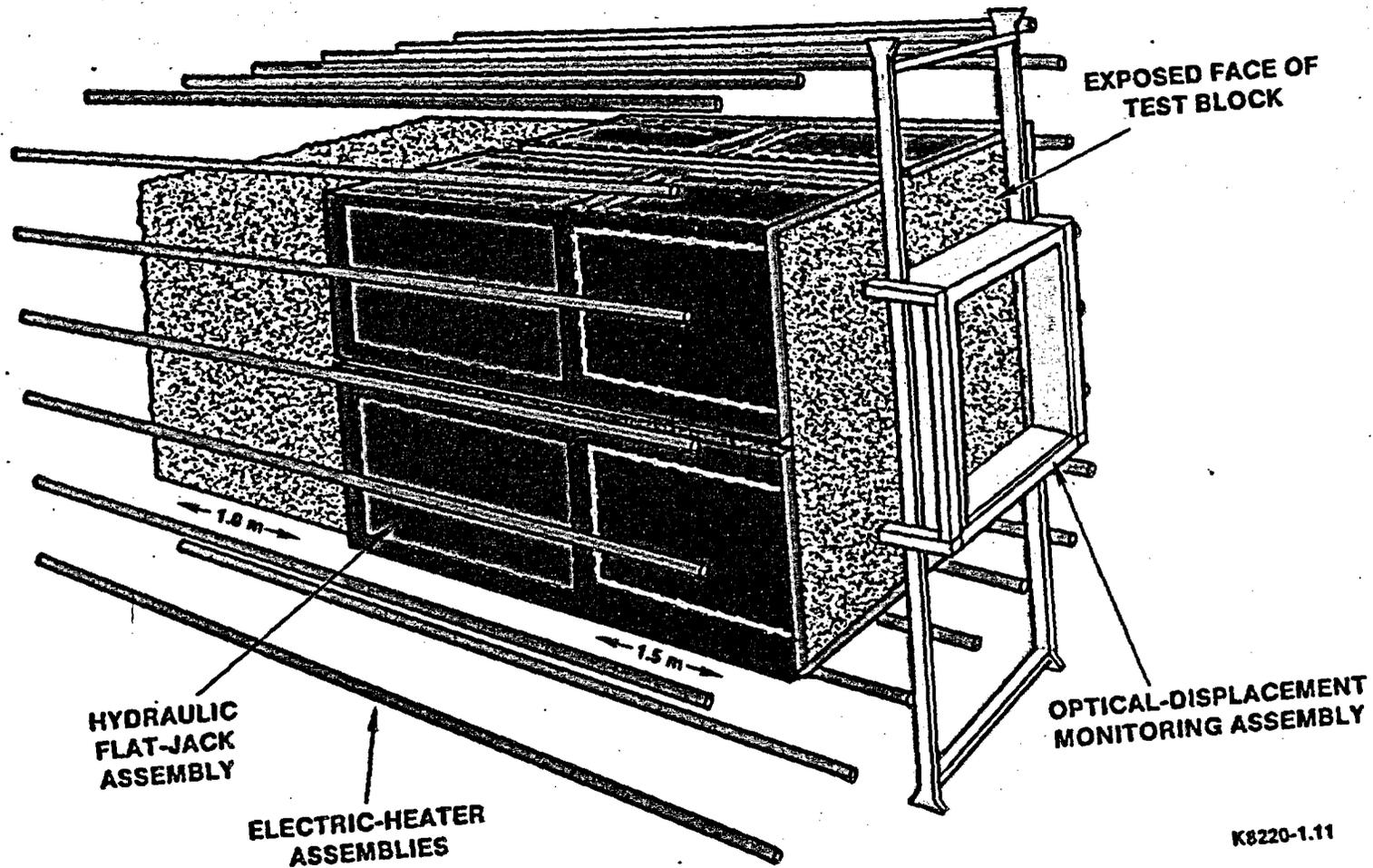
- REPOSITORY AT MIDDLE SENTINEL BLUFFS 0
- REPOSITORY AT UMTANUM 0
- FAULT SCENARIO AT MIDDLE SENTINEL BLUFFS 0
- FAULT SCENARIO AT UMTANUM 0

FACILITIES

NEAR SURFACE TEST FACILITY

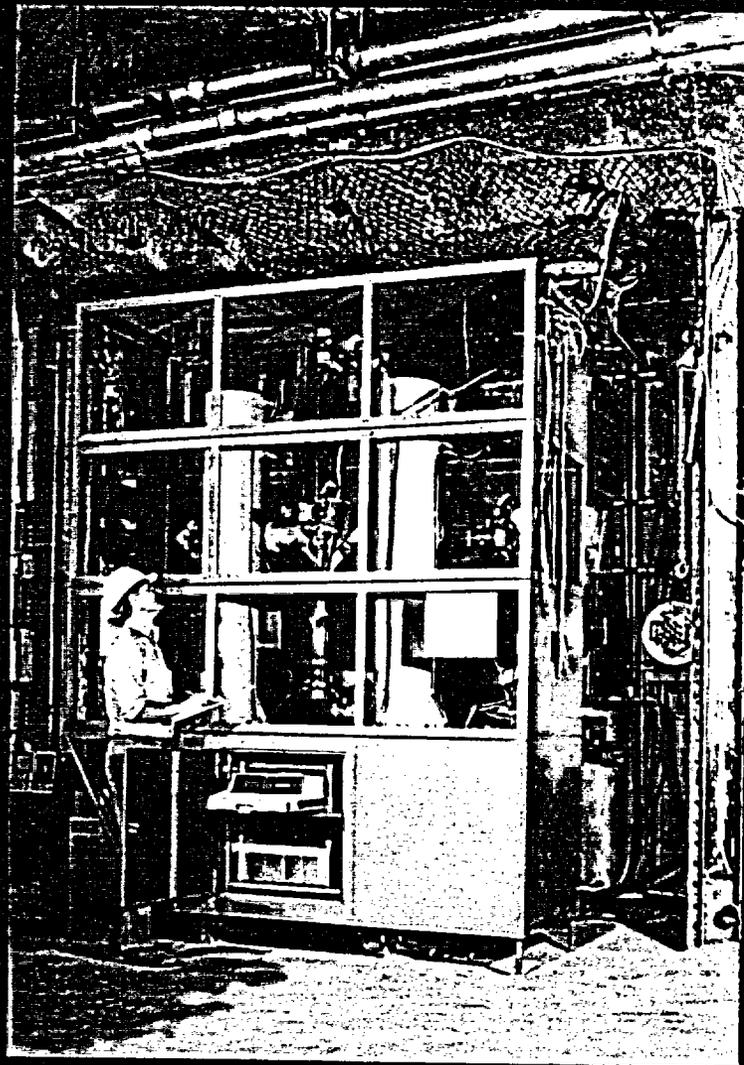


INSTRUMENTATION LAYOUT FOR THE JOINTED BLOCK TEST



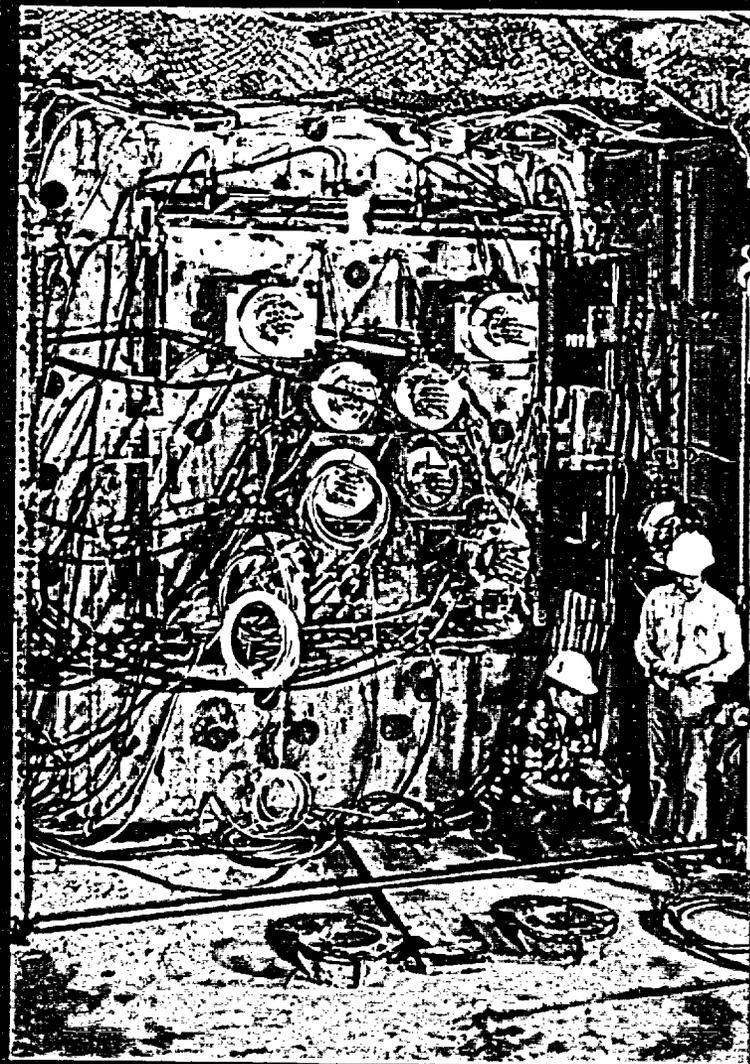
K8220-1.11

NSTF JOINTED BLOCK TEST

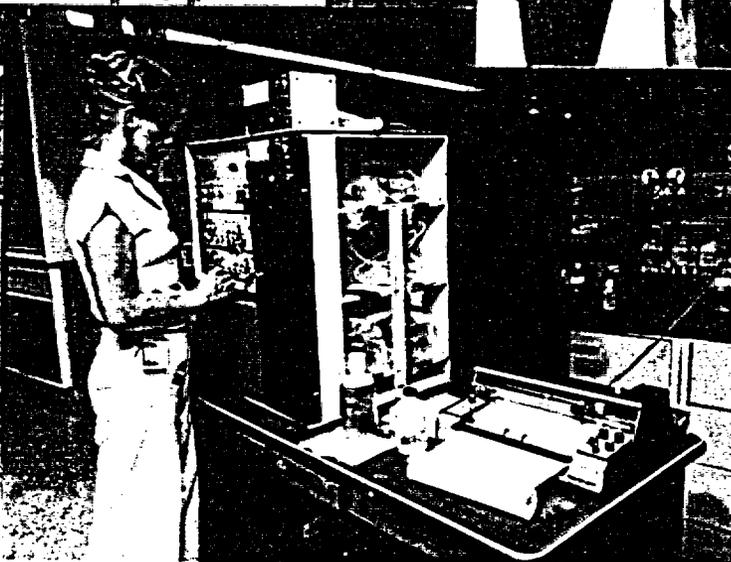
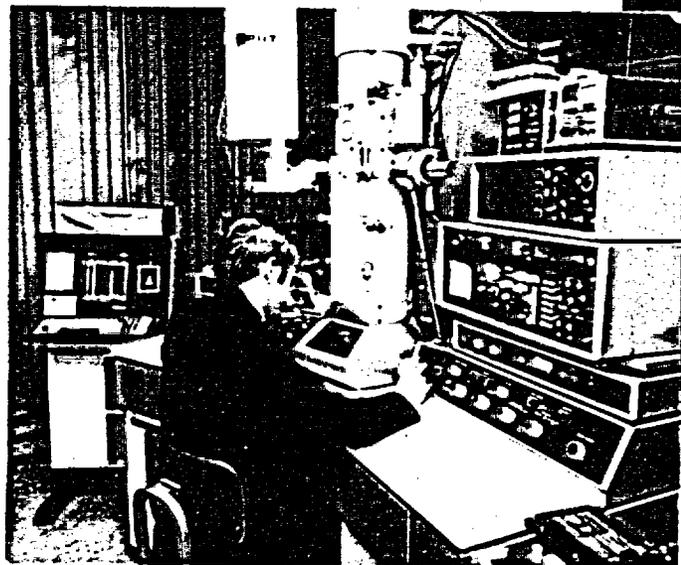
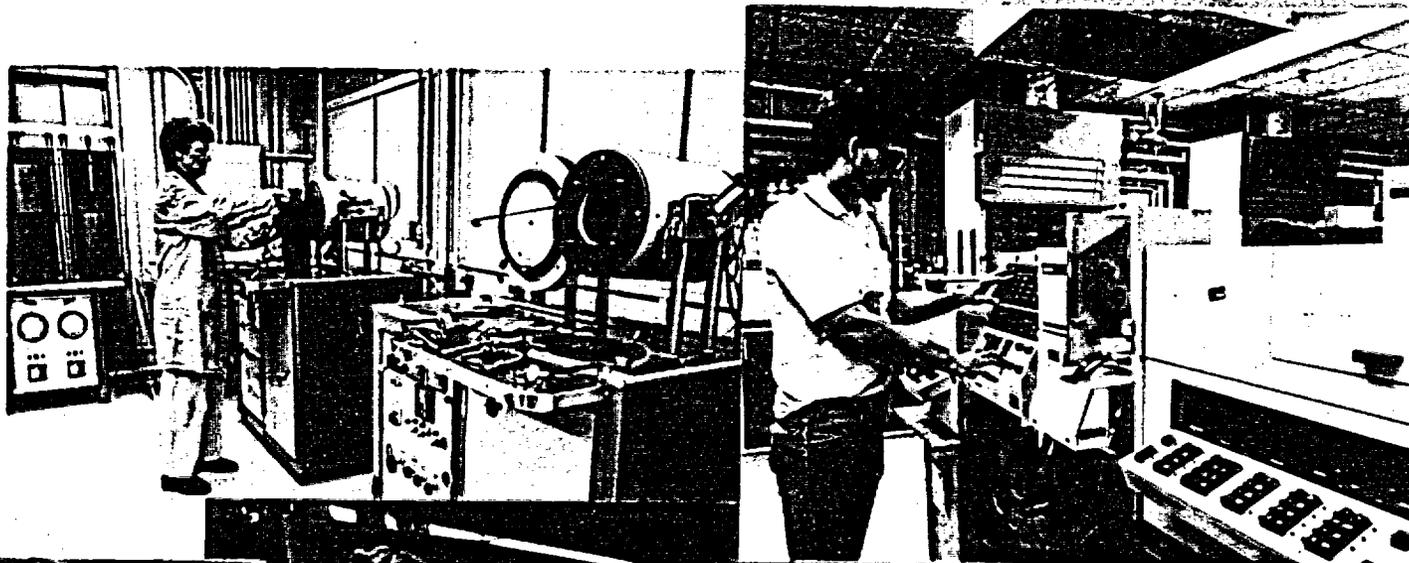


BOREHOLE DEFORMATION MEASUREMENT SYSTEM

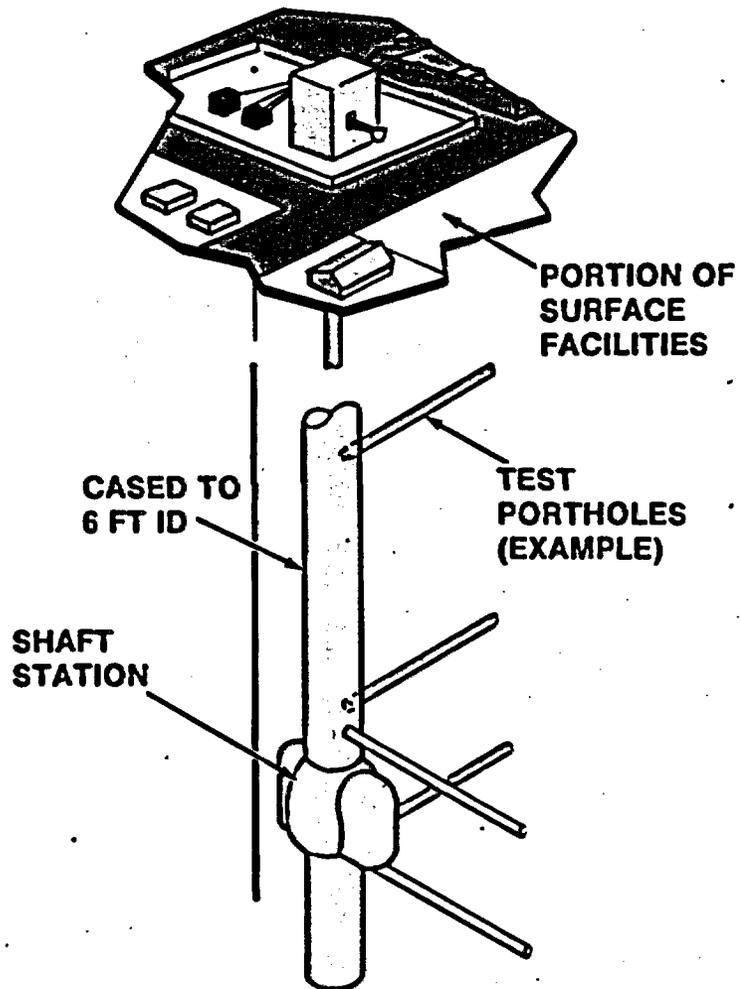
INSTALLATION OF FLAT JACKS AND TENDONS



ROCKWELL BWIP LABORATORIES 2101-M BUILDING

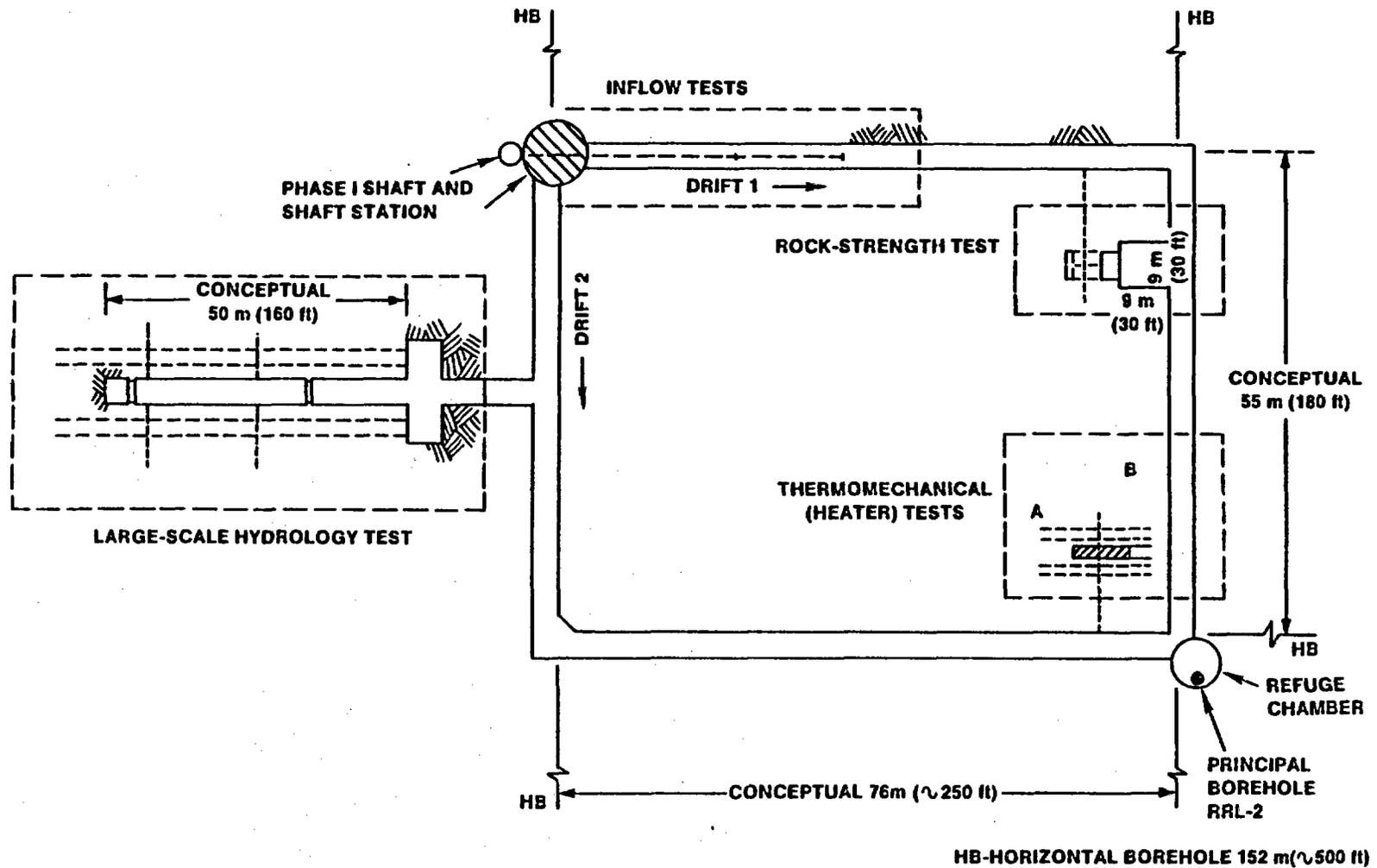


EXPLORATORY SHAFT (PHASE I) CONCEPTUAL ARRANGEMENT



B8112-4.16a

EXPLORATORY SHAFT-PHASE II CONCEPTUAL CONFIGURATION



**BWIP
MAJOR
FINDINGS**

MAJOR FINDINGS

- **BASALT FLOWS LOCATED MORE THAN 610 METERS (2,000 FEET) BELOW THE GROUND SURFACE ARE NOT SUBJECT TO SIGNIFICANT EROSION, AND SEVERAL FLOWS MAY HAVE THICK ENOUGH FLOW INTERIORS AND SUFFICIENT LATERAL CONTINUITY TO ACCOMMODATE THE CONSTRUCTION OF A NUCLEAR WASTE REPOSITORY.**
- **THE PRESENT CALCULATED RATE OF DEFORMATION POSES NO THREAT TO THE LONG-TERM INTEGRITY OF A REPOSITORY IN BASALT AT THE HANFORD SITE.**
- **THE BASALT STRATIGRAPHY, OR SEQUENCE OF BASALT FLOWS, BENEATH THE HANFORD SITE IS WELL UNDERSTOOD AND THE DEPTH TO THE FLOWS CAN BE PREDICTED WITH REASONABLE ACCURACY.**

MAJOR FINDINGS, (Continued)

- **THE LOW PERMEABILITY MEASURED IN BOREHOLES FOR THE BASALT-FLOW INTERIORS INDICATE THESE PORTIONS OF THE FLOWS WILL PROVIDE THE ISOLATION NECESSARY TO PREVENT THE RADIONUCLIDES REACHING THE ACCESSIBLE ENVIRONMENT IN CONCENTRATIONS ABOVE ESTABLISHED GUIDELINES.**
- **PRELIMINARY TESTS INDICATE THAT THE BASALT ROCK, GROUNDWATER, AND MATERIALS TO BE PLACED IN TERMINAL STORAGE ARE COMPATIBLE UNDER BOTH AMBIENT AND EXPECTED THERMAL STRESS CONDITIONS, IN THAT THEY FAVOR LONG-TERM STABILITY.**
- **THERE IS AN EXTREMELY LOW PROBABILITY OF ANY ADVERSE CLIMATIC IMPACT ON A REPOSITORY IN BASALT AT THE HANFORD SITE.**

MAJOR FINDINGS (Continued)

- **NO FAULTS HAVE BEEN IDENTIFIED ON THE HANFORD SITE THAT WOULD HAVE AN ADVERSE IMPACT ON A REPOSITORY CONSTRUCTED AT THE REFERENCE REPOSITORY LOCATION.**
- **THE POTENTIAL FOR RENEWED VOLCANISM ON THE HANFORD SITE IS VERY LOW.**
- **THERE ARE NO ECONOMIC RESOURCES MINED FROM THE BASALT IN THE VICINITY OF THE HANFORD SITE AT THE PRESENT TIME, OTHER THAN GROUNDWATER PUMPED FROM SHALLOW AQUIFERS. THE HANFORD SITE IS RELATIVELY UNATTRACTIVE TO FUTURE SUBSURFACE MINERAL EXPLORATION AND DEVELOPMENT WITHIN THE COLUMBIA RIVER BASALT GROUP COMPARED WITH OTHER AREAS OF THE COLUMBIA PLATEAU.**

MAJOR FINDINGS (Continued)

- **THE REFERENCE REPOSITORY LOCATION IS SITUATED IN A FAVORABLE POSITION WITH RESPECT TO AVAILABLE TRANSPORTATION MODES, SUPPORT AND SERVICE FACILITIES, REMOTENESS FROM POPULATION CENTERS, AND SMOOTHNESS OF THE TERRAIN.**
- **THERE IS NO LAND CONFLICT WITH CURRENTLY PLANNED OR EXISTING FACILITIES ON THE HANFORD SITE.**

**EXTERNAL
AFFAIRS**

BASALT WASTE ISOLATION PROJECT CHALLENGE

- **TO CHARACTERIZE THE BASALTS BENEATH THE HANFORD SITE TO HAVE ASSURANCE OF THEIR SAFETY FOR LONG TERM ISOLATION**
- **TO COMPLEMENT A BASALT REPOSITORY WITH APPROPRIATE ENGINEERING SAFEGUARDS**
- **TO COMMUNICATE A CREDIBLE PROGRAM TO THE PUBLIC**

EXTERNAL AFFAIRS ACTIVITIES

- **WASHINGTON STATE TASK FORCE ON NUCLEAR WASTE MANAGEMENT**
- **PUBLIC INFORMATION MEETINGS**
- **SPEAKERS BUREAU**
- **TOURS AND BRIEFINGS**
- **DOCUMENTS AND REPORTS**
- **NWTS INFORMATION NETWORK**
- **ANNUAL NWTS INFORMATION MEETING**
- **ANNUAL MEDIA BACKGROUNDER**
- **REVIEW MEETINGS**
- **OVERVIEW COMMITTEES**

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Rockwell Hanford Operations
Energy Systems Group

