

**WEST VALLEY
DEMONSTRATION PROJECT**

8011180 2.78

OBJECTIVES

- **BRIEF NUCLEAR REGULATORY COMMISSION ON WEST VALLEY**
- **IDENTIFY AREAS REQUIRING DOE—NRC RESOLUTION**

OVERVIEW

- **LEGISLATIVE STATUS**
- **COST AND SCHEDULE**
- **CURRENT AND PLANNED ACTIVITIES**
- **AREAS FOR DOE—NRC RESOLUTION**

WEST VALLEY DEMONSTRATION PROJECT ACT

- PASSED HOUSE & SENATE ON SEPTEMBER 17, 1980
- SIGNED INTO LAW OCTOBER 1, 1980
- AUTHORIZED THE DEPARTMENT "TO CARRY OUT A HIGH—LEVEL LIQUID NUCLEAR WASTE MANAGEMENT DEMONSTRATION PROJECT AT THE WESTERN NEW YORK NUCLEAR SERVICE CENTER IN WEST VALLEY, NEW YORK" (ENACTING CLAUSE)

WEST VALLEY DEMONSTRATION PROJECT

SCOPE

- SOLIDIFY LIQUID HIGH—LEVEL WASTE IN A FORM SUITABLE FOR TRANSPORTATION AND DISPOSAL [SECTION 2(a)(1)]
- DEVELOP CONTAINERS SUITABLE FOR PERMANENT DISPOSAL [SECTION 2(a)(2)]
- TRANSPORT SOLIDIFIED WASTE AS SOON AS FEASIBLE TO FEDERAL REPOSITORY FOR PERMANENT DISPOSAL [SECTION 2(a)(3)]
- DISPOSE OF LOW—LEVEL AND TRANSURANIC WASTES [SECTION 2(a)(4)]
- DECONTAMINATE AND DECOMMISSION TANKS, FACILITIES, MATERIAL AND HARDWARE USED [SECTION 2(a)(5)]

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2(a)

(1) THE SECRETARY SHALL SOLIDIFY, IN A FORM SUITABLE FOR TRANSPORTATION AND DISPOSAL, THE HIGH LEVEL RADIOACTIVE WASTE AT THE CENTER BY VITRIFICATION OR BY SUCH OTHER TECHNOLOGY WHICH THE SECRETARY DETERMINES TO BE THE MOST EFFECTIVE FOR SOLIDIFICATION.

(2) THE SECRETARY SHALL DEVELOP CONTAINERS SUITABLE FOR THE PERMANENT DISPOSAL OF THE HIGH LEVEL RADIOACTIVE WASTE SOLIDIFIED AT THE CENTER.

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2(a)

(3) THE SECRETARY SHALL, AS SOON AS FEASIBLE, TRANSPORT, IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LAW, THE WASTE SOLIDIFIED AT THE CENTER TO AN APPROPRIATE FEDERAL REPOSITORY FOR PERMANENT DISPOSAL.

(4) THE SECRETARY SHALL, IN ACCORDANCE WITH APPLICABLE LICENSING REQUIREMENTS, DISPOSE OF LOW LEVEL RADIOACTIVE WASTE AND TRANSURANIC WASTE PRODUCED BY THE SOLIDIFICATION OF HIGH LEVEL RADIOACTIVE WASTE UNDER THE PROJECT.

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2(a)

(5) THE SECRETARY SHALL DECONTAMINATE AND DECOMMISSION—

(A) THE TANKS AND OTHER FACILITIES OF THE CENTER IN WHICH THE HIGH LEVEL RADIOACTIVE WASTE SOLIDIFIED UNDER THE PROJECT WAS STORED.

(B) THE FACILITIES USED IN THE SOLIDIFICATION OF THE WASTE, AND

(C) ANY MATERIAL AND HARDWARE USED IN CONNECTION WITH THE PROJECT, IN ACCORDANCE WITH SUCH REQUIREMENTS AS THE COMMISSION MAY PRESCRIBE.

OVERVIEW

- **LEGISLATIVE STATUS**
- **COST AND SCHEDULE**
- **CURRENT AND PLANNED ACTIVITIES**
- **AREAS FOR DOE—NRC RESOLUTION**

PROGRAM MILESTONES

ISSUE DRAFT EIS	4TH QFY 81
HOLD EIS PUBLIC HEARING	4TH QFY 81
ISSUE FINAL EIS	2ND QFY 82
COMPLETE CONCEPTUAL DESIGN	3RD QFY 82
INITIATE PRELIMINARY DESIGN	3RD QFY 82
ISSUE DRAFT WASTE FORM REPORT	4TH QFY 83
INITIATE CONSTRUCTION & LONG LEAD PROCUREMENT	4TH QFY 83
PUBLISH WASTE FORM RECORD OF DECISION	2ND QFY 84
COMPLETE CONSTRUCTION	4TH QFY 86
START OPERATION	3RD QFY 87
COMPLETE SOLIDIFICATION	4TH QFY 90
COMPLETE D&D AND FACILITY TURNOVER TO NYS	4TH QFY 93

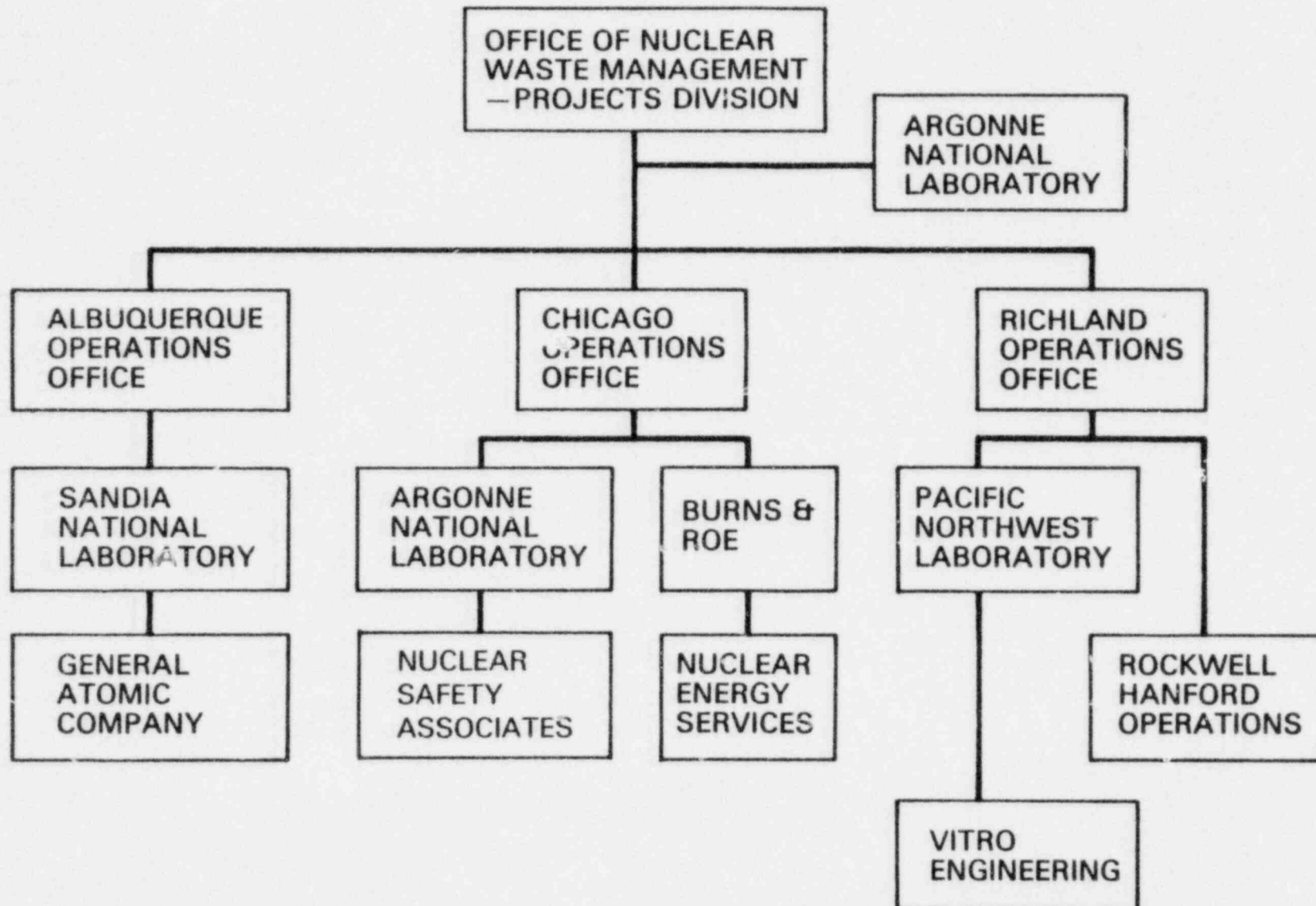
COST/SCHEDULE DEVELOPMENT

- ANL PROGRAM MANAGEMENT OFFICE WILL DEVELOP AND MAINTAIN COST/SCHEDULE BASELINE
- PRECONCEPTUAL DESIGN REPORT, MARCH 1981

OVERVIEW

- **LEGISLATIVE STATUS**
- **COST AND SCHEDULE**
- **CURRENT AND PLANNED ACTIVITIES**
- **AREAS FOR DOE—NRC RESOLUTION**

WEST VALLEY DEMONSTRATION PROJECT



PROGRAM MANAGEMENT SUPPORT

CONTRACTOR:

ARGONNE NATIONAL LABORATORY

SCOPE:

**MANAGEMENT, ANALYTICAL AND TECHNICAL SUPPORT TO
PROJECTS DIVISION**

- **PROGRAM PLANNING AND ANALYSIS**
- **TECHNICAL REPORT REVIEW**
- **MONTHLY PROJECT PROGRESS REPORT**
- **PROGRAM SUPPORT**

ENVIRONMENTAL IMPACT STATEMENT

CONTRACTOR:

ARGONNE NATIONAL LABORATORY

SCOPE:

ENVIRONMENTAL ANALYSIS

KEY DATES:

PUBLISHED FEDERAL REGISTER NOTICE	DECEMBER 12, 1979
HELD PUBLIC SCOPING MEETING	FEBRUARY 2, 1980
ISSUE DRAFT EIS	4TH QFY 81
HOLD PUBLIC HEARING	4TH QFY 81
ISSUE FINAL EIS	2ND QFY 82

PRECONCEPTUAL DESIGN

CONTRACTOR:

PACIFIC NORTHWEST LABORATORY/VITRO ENGINEERING

SCOPE:

PREPARE DESIGN OF REFERENCE PROCESS SYSTEM

KEY DATES:

INITIATED

MARCH 1980

ISSUE DRAFT REPORT

MARCH 1981

ISSUE FINAL REPORT

SEPTEMBER 1981

WASTE CHARACTERIZATION

CONTRACTOR:

ROCKWELL HANFORD OPERATIONS

SCOPE:

SAMPLE AND CHARACTERIZE LIQUID HIGH LEVEL WASTES

KEY DATES:

INITIATED

JANUARY 1980

CONDUCT SAMPLING

MAY 1981

COMPLETE ANALYSIS

SEPTEMBER 1981

WASTE REMOVAL

CONTRACTOR:

ROCKWELL HANFORD OPERATIONS

SCOPE:

WASTE REMOVAL PLAN AND TANK MOCKUP STUDY

KEY DATES:

INITIATED	JANUARY 1980
ISSUED PRELIMINARY REPORT	JUNE 1980
ISSUE DRAFT REMOVAL PLAN	DECEMBER 1980
ISSUE DRAFT MOCKUP STUDY	FEBRUARY 1981

INTERIM WASTE FORM DEVELOPMENT

CONTRACTOR:

ARGONNE NATIONAL LABORATORY

SCOPE:

IMMOBILIZE FOR OFF-SITE TERMINAL PROCESSING AT FUTURE DATE

KEY DATES:

INITIATED	APRIL 1980
ISSUE PRELIMINARY GENERIC WASTE FORM AND PROCESS CRITERIA	NOVEMBER 1980
ISSUE ANALYSIS OF POTENTIAL WASTE FORM SYSTEMS	MARCH 1981

TRANSPORTATION

CONTRACTOR:

SANDIA NATIONAL LABORATORY
GENERAL ATOMIC

SCOPE:

TRANSPORTATION ANALYSIS FOR EIS, LIQUID SAMPLE
SHIPMENT, AND SYSTEM DESIGN

KEY DATES:

INITIATED

DECEMBER 1979

SUBMITTED NRC APPLICATION

SEPTEMBER 1980

SPECIAL STUDIES

CONTRACTOR:

BURNS & ROE

SCOPE:

DECONTAMINATION & DECOMMISSIONING

SEISMIC REVIEW

LOW LEVEL WASTE MANAGEMENT

FACILITY STUDIES

KEY DATES:

INITIATED

DECEMBER 1979

ISSUED DRAFT REPORTS

AUGUST 1980

PLANNED ACTIVITIES

- ESTABLISH ON-SITE PROJECT OFFICE
- ISSUE RFPs TO CARRY OUT THE PROJECT
 - INITIAL DECONTAMINATION
 - CONCEPTUAL, PRELIMINARY & FINAL DESIGN
 - FACILITY CONSTRUCTION & OPERATION
 - FINAL DECONTAMINATION & DECOMMISSIONING OF TANKS, FACILITIES, MATERIAL & HARDWARE
- ENTER INTO AGREEMENTS WITH STATE OF NEW YORK

PRINCIPLES OF DOE—NYS AGREEMENTS

- NYS WILL MAKE FACILITIES & HIGH—LEVEL WASTES AVAILABLE TO DOE WITHOUT TITLE TRANSFER [SECTION 2(b)(4)(A)]
- 90/10 DOE—NYS COST SHARING ARRANGEMENT [SECTION 2(b)(4)(C) & 3(b)]
- DOE WILL PROVIDE TECHNICAL ASSISTANCE TO NYS TO AMEND LICENSE [SECTION 2(b)(4)(B)]
- JOINT SUBMITTAL BY DOE & NYS OF AN APPLICATION FOR A LICENSE AMENDMENT [SECTION 2(b)(4)(D)]

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2(b)

(4) THE SECRETARY SHALL ENTER INTO A COOPERATIVE AGREEMENT WITH THE STATE IN ACCORDANCE WITH THE FEDERAL GRANT AND COOPERATIVE AGREEMENT ACT OF 1977 UNDER WHICH THE STATE WILL CARRY OUT THE FOLLOWING:

(A) THE STATE WILL MAKE AVAILABLE TO THE SECRETARY THE FACILITIES OF THE CENTER AND THE HIGH LEVEL RADIOACTIVE WASTE AT THE CENTER WHICH ARE NECESSARY FOR THE COMPLETION OF THE PROJECT. THE FACILITIES AND THE WASTE SHALL BE MADE AVAILABLE WITHOUT THE TRANSFER OF TITLE AND FOR SUCH PERIOD AS MAY BE REQUIRED FOR COMPLETION OF THE PROJECT.

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2.(b)(4)

(B) THE SECRETARY SHALL PROVIDE TECHNICAL ASSISTANCE IN SECURING REQUIRED LICENSE AMENDMENTS.

(C) THE STATE SHALL PAY 10 PER CENTUM OF THE COSTS OF THE PROJECT, AS DETERMINED BY THE SECRETARY. IN DETERMINING THE COSTS OF THE PROJECT, THE SECRETARY SHALL CONSIDER THE VALUE OF THE USE OF THE CENTER FOR THE PROJECT. THE STATE MAY NOT USE FEDERAL FUNDS TO PAY ITS SHARE OF THE COST OF THE PROJECT, BUT MAY USE THE PERPETUAL CARE FUND TO PAY SUCH SHARE.

(D) SUBMISSION JOINTLY BY THE DEPARTMENT OF ENERGY AND THE STATE OF NEW YORK OF AN APPLICATION FOR A LICENSING AMENDMENT AS SOON AS POSSIBLE WITH THE NUCLEAR REGULATORY COMMISSION PROVIDING FOR THE DEMONSTRATION.

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 3.

**(b) THE TOTAL AMOUNT OBLIGATED FOR THE PROJECT
BY THE SECRETARY SHALL BE 90 PER CENTUM
OF THE COSTS OF THE PROJECT.**

OVERVIEW

- **LEGISLATIVE STATUS**
- **COST AND SCHEDULE**
- **CURRENT AND PLANNED ACTIVITIES**
- **AREAS FOR DOE—NRC RESOLUTION**

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2.(c) PROVIDES FOR NUCLEAR REGULATORY COMMISSION REVIEW AND CONSULTATION ROLE. DOE—NRC AGREEMENT SHALL PROVIDE FOR:

- NRC REVIEW OF PLAN FOR WASTE REMOVAL, SOLIDIFICATION, PREPARATION FOR DISPOSAL & DECONTAMINATION [SECTION 2.(c)(1)]
- NRC CONSULTATION ON WASTE FORM & CONTAINERS [SECTION 2.(c)(2)]
- NRC REVIEW OF SAFETY ANALYSIS REPORTS, ETC. [SECTION 2.(c)(3)]
- NRC ACCESS TO WEST VALLEY CENTER TO MONITOR DOE ACTIVITIES [SECTION 2.(c)(4)]

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2.(c)

WITHIN ONE YEAR FROM THE DATE OF THE ENACTMENT OF THIS ACT, THE SECRETARY SHALL ENTER INTO AN AGREEMENT WITH THE COMMISSION TO ESTABLISH ARRANGEMENTS FOR REVIEW AND CONSULTATION BY THE COMMISSION WITH RESPECT TO THE PROJECT. PROVIDED, THAT REVIEW AND CONSULTATION BY THE COMMISSION PURSUANT TO THIS SUBSECTION SHALL BE CONDUCTED INFORMALLY BY THE COMMISSION AND SHALL NOT INCLUDE NOR REQUIRE FORMAL PROCEDURES OR ACTIONS BY THE COMMISSION PURSUANT TO THE ATOMIC ENERGY ACT OF 1954, AS AMENDED, THE ENERGY REORGANIZATION ACT OF 1974, AS AMENDED, OR ANY OTHER LAW. THE AGREEMENT SHALL PROVIDE FOR THE FOLLOWING:

WEST VALLEY DEMONSTRATION PROJECT ACT

SECTION 2.(c)

(1) THE SECRETARY SHALL SUBMIT TO THE COMMISSION FOR ITS REVIEW AND COMMENT, A PLAN FOR THE SOLIDIFICATION OF THE HIGH LEVEL RADIOACTIVE WASTE AT THE CENTER, THE REMOVAL OF THE WASTE FOR PURPOSES OF ITS SOLIDIFICATION, THE PREPARATION OF THE WASTE FOR DISPOSAL, AND THE DECONTAMINATION OF THE FACILITIES TO BE USED IN SOLIDIFYING THE WASTE.

(2) THE SECRETARY SHALL CONSULT WITH THE COMMISSION WITH RESPECT TO THE FORM IN WHICH THE HIGH LEVEL RADIOACTIVE WASTE AT THE CENTER SHALL BE SOLIDIFIED AND THE CONTAINERS TO BE USED IN THE PERMANENT DISPOSAL OF SUCH WASTE.

WEST VALLEY DEMONSTRATION PROJECT ACT

Section 2.(c)

(3) THE SECRETARY SHALL SUBMIT TO THE COMMISSION SAFETY ANALYSIS REPORTS AND SUCH OTHER INFORMATION AS THE COMMISSION MAY REQUIRE TO IDENTIFY ANY DANGER TO THE PUBLIC HEALTH AND SAFETY WHICH MAY BE PRESENTED BY THE PROJECT.

(4) THE SECRETARY SHALL AFFORD THE COMMISSION ACCESS TO THE CENTER TO ENABLE THE COMMISSION TO MONITOR THE ACTIVITIES UNDER THE PROJECT FOR THE PURPOSE OF ASSURING THE PUBLIC HEALTH AND SAFETY.

AREAS REQUIRING RESOLUTION

- NYS/NFS LICENSE AMENDMENT
- NRC REVIEW & CONSULTATION ROLE
- NRC FINALIZATION OF WASTE FORM CRITERIA
- NRC DECONTAMINATION & DECOMMISSIONING REQUIREMENTS

October 20, 1980
DOE/NRC Meeting on West Valley Demonstration Project
Attendee List

Charles Haughney	NRC-FCAF
E. G. Zurflueh	NRC-RES
Kyo S. Kim	NRC-RES
F. R. Cook.	NRC-NMSS
Everett Wick	NRC-NMSS/WM
Don Nussbaumer	NRC-NMSS
J. G. Davis	NRC-NMSS
R. E. Cunningham	NRC-NMSS
Odell Smith	NRC-SGPL
Stuart Treby	NRC-OELD
David McGoff	DOE-ONWM
Sheldon Meyers	DOE-ONWM
Norman Klug	DOE-OSQ
Wendy Ting	NRC-FCAF
Jared J. Davis	NRC-RES
Malcolm Knapp	NRC-NMSS
Sheldon L. Trubatch	NRC-OGC
Regis R. Boyle	NRC-NMSS
Don Schweitzer	BNL
Tom Clark	NRC-NMSS-FCAF
L. C. Rouse	NRC-NMSS-FCAF
Jim Turi	DOE-ONWM
Ed Regnier	NMSS-WM