

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**PRESENTATION TO
THE NUCLEAR WASTE TECHNICAL REVIEW BOARD**

**SUBJECT: YUCCA MOUNTAIN PROJECT
TRANSPORTATION PROGRAM**

PRESENTER: CARL GERTZ

**PRESENTER'S TITLE
AND ORGANIZATION: PROJECT MANAGER
YUCCA MOUNTAIN PROJECT OFFICE
U.S. DEPARTMENT OF ENERGY
LAS VEGAS, NV**

**PRESENTER'S
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YUCCA MOUNTAIN PROJECT TRANSPORTATION PROGRAM

- **INTRODUCTION**
- **HIGHWAY ROUTING**
- **RAIL ACCESS**
- **NEVADA INTERACTIONS**

YUCCA MOUNTAIN PROJECT TRANSPORTATION PROGRAM COMPLEMENTS HQ TRANSPORTATION INITIATIVES

COMMUNICATES HQ RESULTS AT STATE AND LOCAL LEVEL

- **PROVIDES EARLY FEEDBACK ON POTENTIAL STRATEGIES**

DEVELOP INFRASTRUCTURE TO REPOSITORY

- **RAIL ACCESS 100 MILES OR MORE FROM SITE**
- **HIGHWAY ACCESS IS CURRENTLY THROUGH LAS VEGAS**

ADDRESSES ISSUES OF THE POTENTIAL HOST STATE

- **TRANSPORTATION IS LARGEST SINGLE ISSUE WITH PUBLIC**

YUCCA MOUNTAIN PROJECT HAS LEAD IN RAIL AND HIGHWAY SITE ACCESS STRATEGY

HIGHWAY STRATEGY

- **IMPLEMENT DOT REGULATIONS**
- **IDENTIFY ROUTES OF INTEREST TO DOE**
- **DOE HAS PROVIDED TECHNICAL EVALUATION TOOLS
FOR STATE ROUTE EVALUATIONS**

RAIL STRATEGY

- **DEVELOPMENT OF ROUTE TO POTENTIAL SITE**
- **OPTIONS TO REGIONAL CARRIERS**
- **ADDRESS REAL AND PERCEIVED ISSUES**

INITIAL YUCCA MOUNTAIN PROJECT HIGHWAY ROUTING EVALUATIONS COMPLETE

ROUTES UNDER CURRENT DOT REGULATIONS

- **CURRENTLY INTERSTATE 15/US 95 THROUGH LAS VEGAS**
- **NEVADA DOT EVALUATING ALTERNATES**

SECTION 175 REPORT

- **INITIAL INFRASTRUCTURE EVALUATIONS**

HIGHWAY ROUTING REPORT WAS RELEASED IN APRIL 1989

CLARIFY HM-164 ROLE OF DOE AS SHIPPER

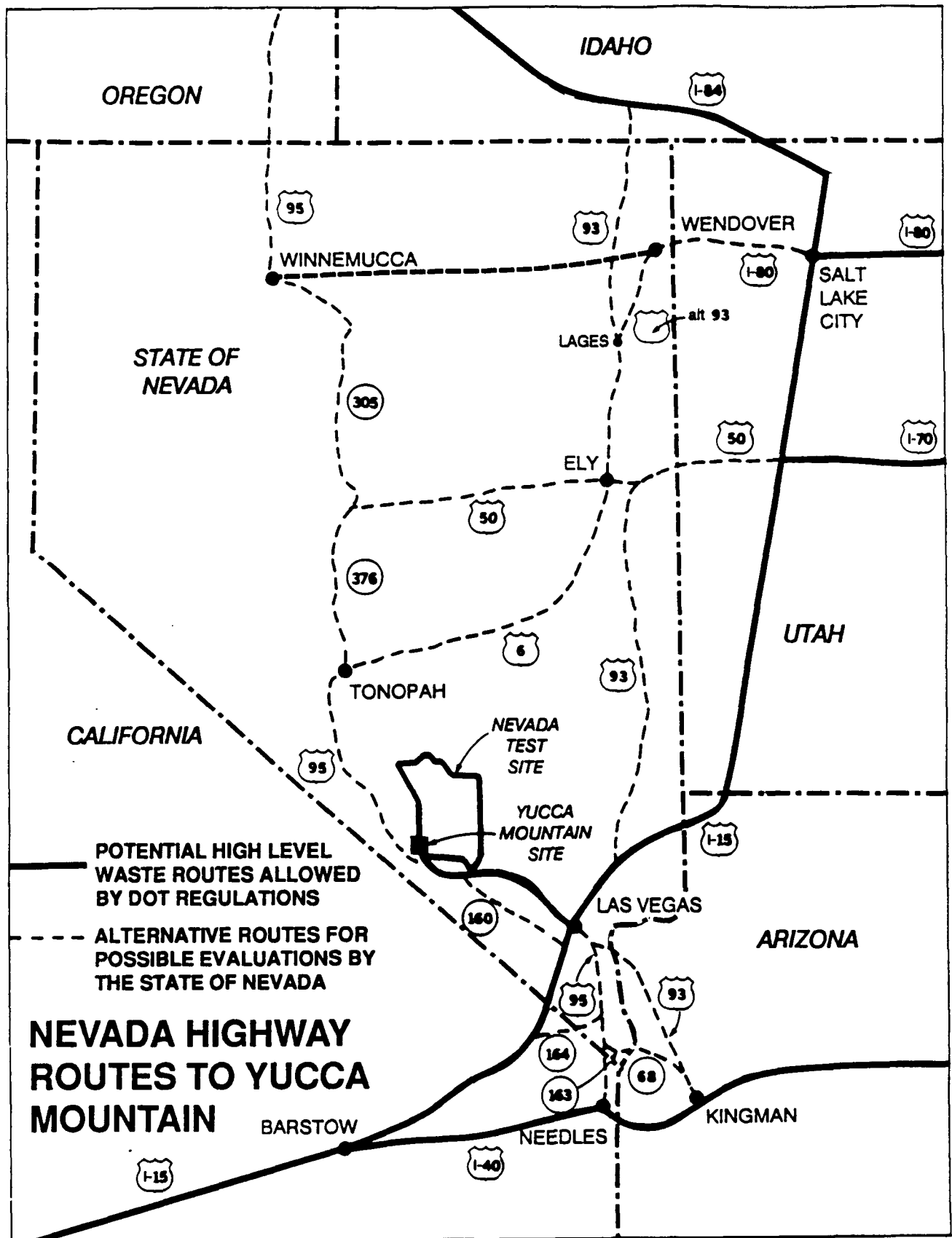
- **CARRIER SELECTS ROUTES NEARER TIME OF SHIPMENT**
- **OCRWM ONE OF SEVERAL HIGHWAY ROUTE CONTROLLED SHIPPERS**
- **REPORT DOES NOT SELECT ROUTES**

COMMUNICATE TO PUBLIC ON ROUTE SELECTION PROCESS

- **NEVADA DOT AND GOVERNOR MAY DESIGNATE ALTERNATES TO INTERSTATE HIGHWAYS**

IDENTIFY ROUTES OF INTEREST TO OCRWM

- **ALTERNATIVES TO GOING THROUGH LAS VEGAS**
- **DOE HAS NO PLANS TO USE HOOVER DAM ROUTE**



OREGON

IDAHO

STATE OF NEVADA

UTAH

CALIFORNIA

ARIZONA

NEVADA HIGHWAY ROUTES TO YUCCA MOUNTAIN

POTENTIAL HIGH LEVEL WASTE ROUTES ALLOWED BY DOT REGULATIONS

ALTERNATIVE ROUTES FOR POSSIBLE EVALUATIONS BY THE STATE OF NEVADA

WINNEMUCCA

WENDOVER

SALT LAKE CITY

LAGES

ELY

TONOPAH

NEVADA TEST SITE

YUCCA MOUNTAIN SITE

LAS VEGAS

BARSTOW

NEEDLES

KINGMAN

95

93

I-80

I-80

305

50

I-70

376

50

6

93

95

I-15

160

95

93

164

163

68

I-15

I-40

I-84

alt 93

**FUTURE RAIL ACCESS WORK TO FOCUS ON THREE
POTENTIALLY FEASIBLE RAIL ACCESS ROUTES**

**PRELIMINARY EVALUATIONS COMPLETE FOR CARRIER ACCESS;
ENGINEERING FEASIBILITY AND LAND USE CONFLICTS**

OTHER ROUTES TO BE MONITORED

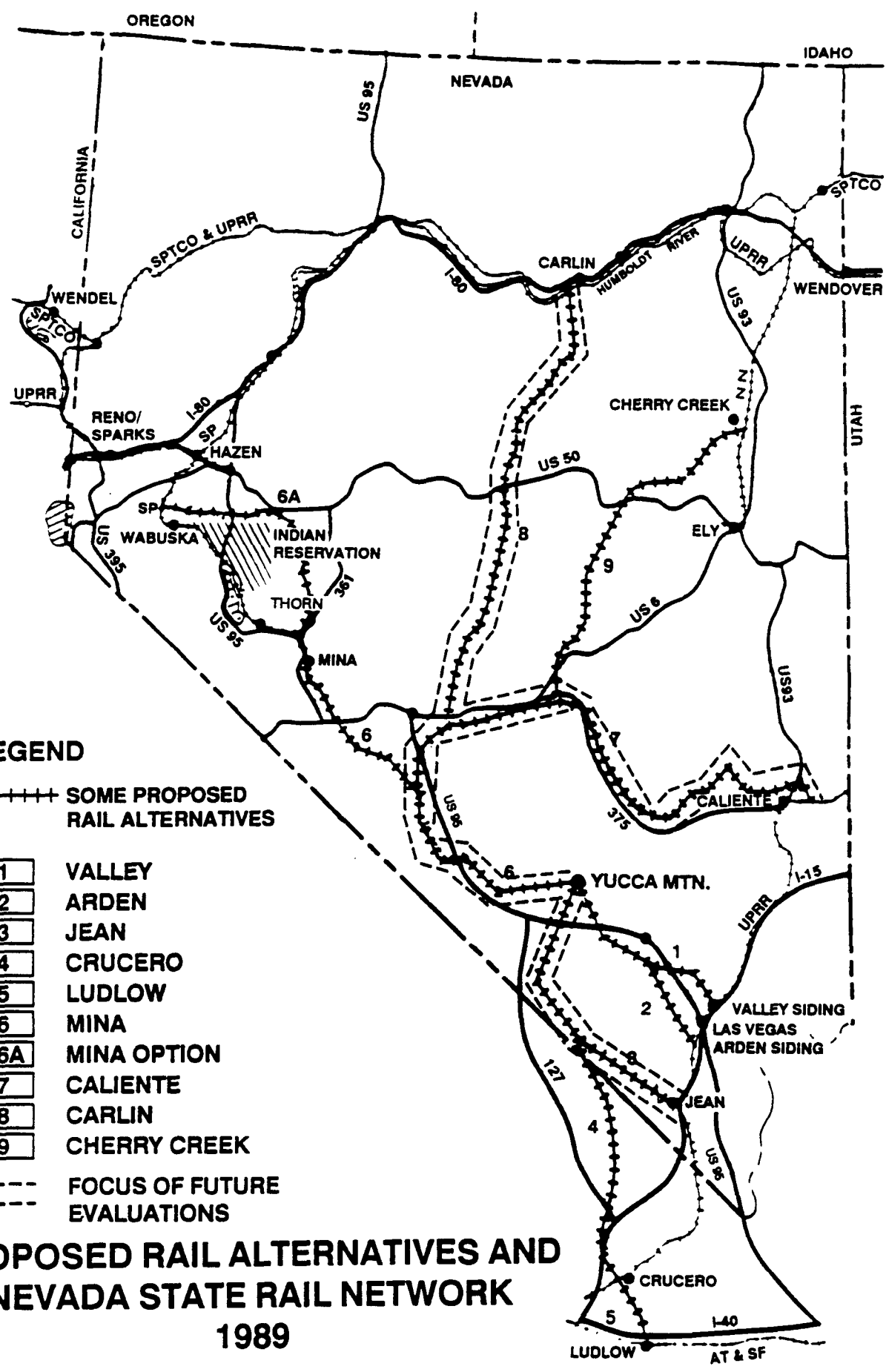
LEGEND

+++++ SOME PROPOSED RAIL ALTERNATIVES

- 1 VALLEY
- 2 ARDEN
- 3 JEAN
- 4 CRUCERO
- 5 LUDLOW
- 6 MINA
- 6A MINA OPTION
- 7 CALIENTE
- 8 CARLIN
- 9 CHERRY CREEK

----- FOCUS OF FUTURE EVALUATIONS

PROPOSED RAIL ALTERNATIVES AND NEVADA STATE RAIL NETWORK 1989

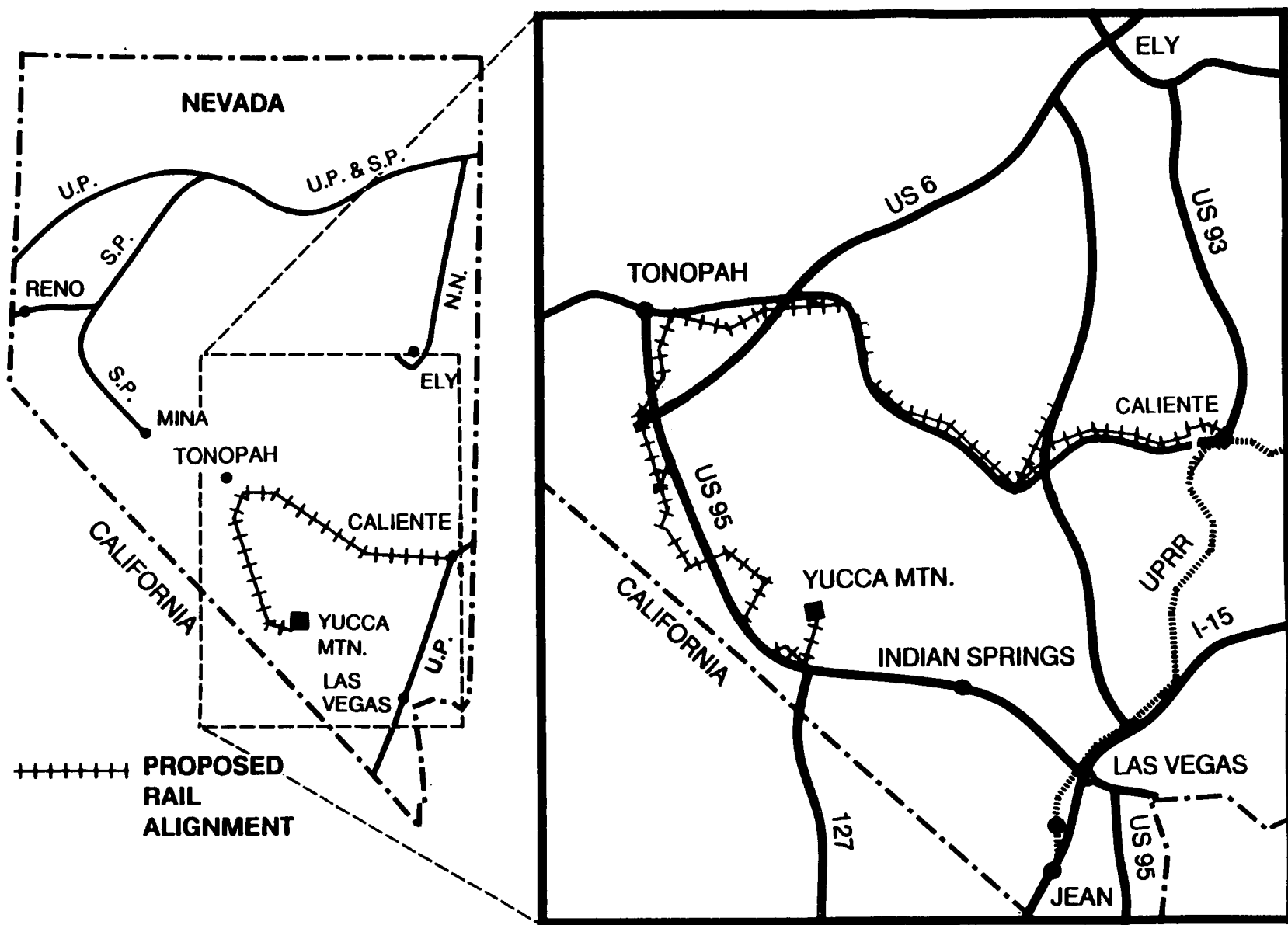


**PUBLICATION OF CURRENT RAIL ROUTES AND
EVALUATIONS IS SCHEDULED FOR
DECEMBER 1989**

ROUTES RECOMMENDED FOR ADDITIONAL FEASIBILITY EVALUATIONS

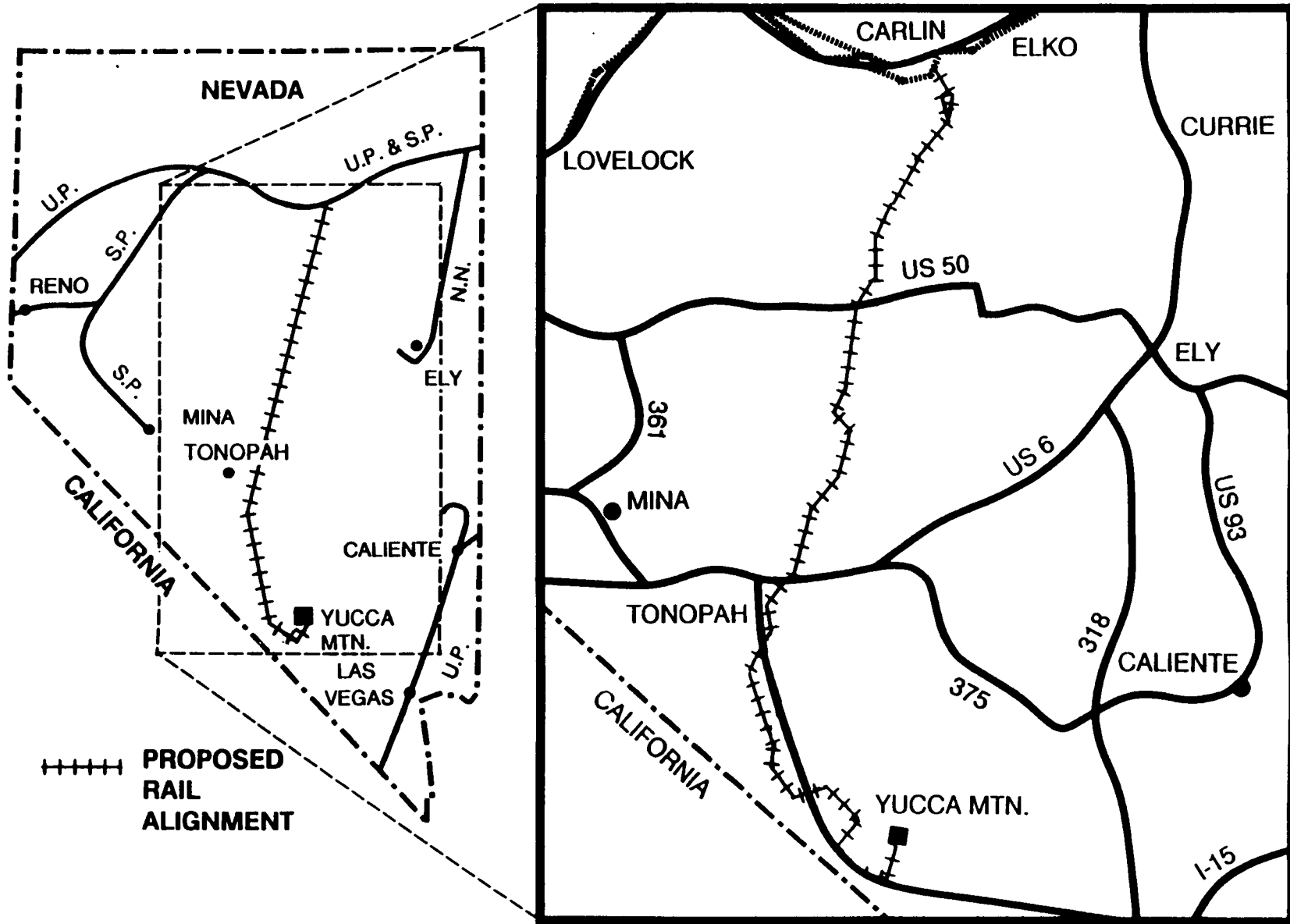
	<u>LENGTH(MI)</u>	<u>COST (\$M)</u>	<u>CARRIER(S)</u>	<u>LAND USE ISSUES</u>
CALIENTE	406	690	UP	NONE
CARLIN	365	660	UP,SP	SOME PRIVATE (NOT DEVELOPED)
JEAN	121	183	UP,SF	NONE

CALIENTE OPTION



NOTE: NOT TO SCALE

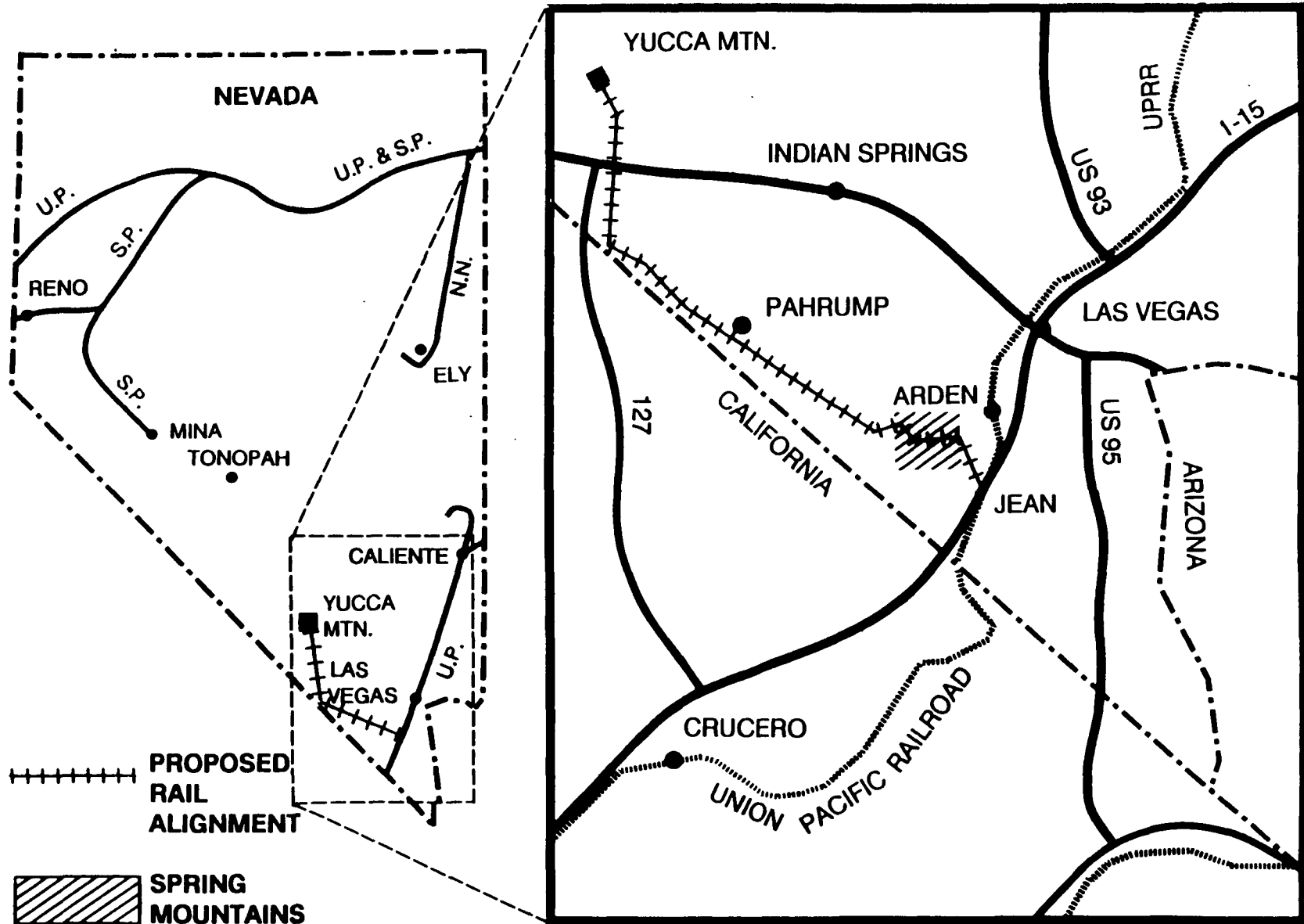
CARLIN OPTION



++++ PROPOSED
RAIL
ALIGNMENT

NOTE: NOT TO SCALE

JEAN OPTION



NOTE: NOT TO SCALE

ADDITIONAL FEASIBILITY EVALUATIONS NEEDED TO SUPPORT A SITING DECISION WILL START IN FY90

CONCEPTUAL DESIGNS

- **REFINE TECHNICAL FEASIBILITY**
- **BUDGET QUALITY COST ESTIMATES**
- **BASIS FOR LAND ACCESS AND ENVIRONMENTAL
PLANNING**

STATE AND LOCAL PARTICIPATION

SUPPORT HQ OPERATIONS PLANNING

THE NUCLEAR WASTE POLICY ACT ALLOWS A BROAD RANGE OF ACTIVITIES TO MITIGATE TRANSPORTATION ROUTING ISSUES IN POTENTIAL HOST STATES

CONSULTATION AND COOPERATION AGREEMENT

AGREEMENTS WITH NUCLEAR WASTE NEGOTIATOR

GRANTS TO STATE AND LOCAL GOVERNMENT

- **EVALUATIONS OF IMPACTS**
- **OVERSIGHT OF DOE**
- **NWPAA ALLOWS FOR REQUESTS FOR
MITIGATION FUNDS**
- **INFORMAL CONSULTATIONS**

**ASSESSMENT OF POTENTIAL IMPACTS AND POTENTIAL MITIGATION
STRATEGIES**

ASSESSMENT OF TRANSPORTATION IMPACTS IN NEVADA TO CONTINUE OVER LIFE OF PROGRAM - SYSTEM DATA COLLECTION INITIATED

STATE, LOCAL AND FEDERAL AGENCIES

- PAVEMENT DATA**
- ACCIDENT RATES AND SEVERITIES**
- ACCIDENT LOCATIONS**
- HAZARDOUS MATERIAL FLOWS**
- TRAFFIC CHARACTERISTICS**
- EMERGENCY RESPONSE**

FIELD SURVEYS

- POPULATION DATA**
- IMPACT HAZARDS NEAR ROUTES**

RAILROAD COMPANIES

- SUPPLEMENT FEDERAL REPORTS**

YUCCA MOUNTAIN PROJECT RECOGNIZES THAT NATIONAL TRANSPORTATION ISSUES ARE ALSO MAJOR PUBLIC CONCERN IN NEVADA

ISSUES

- **IN STATE ROUTING**
- **CASK SAFETY**
- **EMERGENCY RESPONSE IN NEVADA**

MAINTAIN A CURRENT PUBLIC DIALOG

- **SEMIANNUAL PUBLIC UPDATE MEETINGS**
- **INFORMATION OFFICES**
- **PRESENTATIONS TO COMMUNITY GROUPS**

YUCCA MOUNTAIN PROJECT TRANSPORTATION ACTIVITIES ARE BOTH TECHNICAL AND INSTITUTIONAL

- **HIGHWAY ROUTING PRIMARILY STATE/CARRIER RESPONSIBILITY**
- **RAIL ROUTING RESPONDS TO CONSTRUCTION, OPERATION AND PERCEIVED ISSUES**
- **TRANSPORTATION IS AN INTEGRAL PART OF PROJECT ACTIVITIES IN NEVADA**