



FCAB UPDATE

Week of November 23, 1998

(Last Briefing was Dated November 2, 1998)

MEETINGS

FERNALD MONTHLY PROGRESS BRIEFING Services Building Conference Room
Tuesday, December 8, 1998 • 6:30 pm

ON-SITE COMMITTEE Administration Building First Floor
Wednesday, December 9, 1998 • 6:30 pm

Waste pits monitoring • Site historical preservations activities • Update on special nuclear materials disposition • Evaluate support of Oak Ridge options

OFF-SITE COMMITTEE Administration Building First Floor
Thursday, December 10, 1998 • 6:00 pm

Planning for transportation workshop • Update on Fernald shipping and intermodal preparations/white metal box replacement • Silos update

EFFICIENCY COMMITTEE Administration Building First Floor
Thursday, December 10, 1998 • 7:30 pm

Update on budgets and defense closure fund • Year 2000 plan

ATTACHMENTS

- 10/14/98 Efficiency Committee Meeting Summary
- 10/12/98 Off-Site Committee Meeting Summary
- Handouts from Off-Site Committee Meeting
- Revised Committee Structure
- Revised FCAB Contact Information Sheet
- Revised FCAB 1999 Schedule
- News Clippings

NEWS and ANNOUNCEMENTS

Welcome New Members: the FCAB was pleased to welcome four new members into our ranks at the November 14 meeting. Sandy Butterfield, Michael Keyes, Ken Moore, and Fawn Thompson each began three year terms.

Welcome New Staff: Gwen Doddy has joined Phoenix Environmental and will be providing administrative support to the FCAB.

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Phoenix Environmental Awarded FY99 FCAB Support Contract. The contract began November 1 and calls for one year with three option years.

Please Keep the FCAB Office Informed: If you are unable to attend an FCAB meeting or a meeting of your committee, please call the FCAB office to let us know. Attendance at meetings is a requirement of membership and multiple unexcused absences is cause for dismissal under our groundrules.

FOR FURTHER INFORMATION

Please contact Doug Sarno or Gwen Doddy, Phoenix Environmental Corporation
Phone: 513-648-6478 or 703-971-0058 Fax: 513-648-3629 or 703-971-0006
E-Mail: DJSarno@aol.com

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11/15/99 10:54

11/15/99 10:54

Topics:

- Prime Contract Clauses Related to Self-Performance and General Site Subcontracting Information
- Workforce Restructuring Issues
- Letter From Representative Portman to Secretary of Energy

1848



**FERNALD
CITIZENS
ADVISORY
BOARD**

Attendees:

CAB members:	Lisa Crawford
	Doug Sarno
	Bob Tabor
DOE:	Glenn Griffiths
	Loretta Parsons
	Gary Stegner
Fluor Daniel Fernald:	Rex Norton
	Tisha Patton
FRESH:	Vicki Dastillung
OEPA:	Jim Coon

Meeting Summary:

The purpose of this meeting was to gather information on how the Efficiency Committee can best spend its energy to facilitate closure. The Committee understands that the site is still working under rules and approaches that might not make sense now, but did 20 - 30 years ago. With this in mind, the Committee wants to know which rules and approaches can be changed and which are contractual issues that cannot be changed. Moreover, there are two steps to the process one is opening the door - contracting new systems and the other is walking through the door - taking advantage of the new system (for example, making best use of the Defense Closure Project designation).

Loretta Parsons, from the DOE, explained the prime contract clauses related to self-performance and general site subcontracting information to the committee: FDF can use subcontractors which are supervised by a site manager. Construction work is sub-contracted out unless approval is obtained for in-house work. This was requested once for OU4 and was not approved (it was after the Melter incident). There are three main clauses that were added to the contract: 1) performance clause - the contractor must prove it is cost beneficial for the work to be done in-house, 2) the subcontractor/contractor clause - all the affiliates of Flour must be known in order to avoid a conflict of interest, and 3) contractors cannot do both the design and construction. The Brooks Act is a law that states the purchase of architecture and engineering services must be based upon the best design firms not the best price (as with other services).

There are four categories of work at the site: architectural & engineering (a&e), Fernald Atomic Trades and Labor Council (FATLC), Greater Cincinnati Building & Construction Trades Council (GCBCTC), and other services (such as professional services, office supply contract and computer maintenance). A&E contracts have been awarded to Parsons and Lockwood Greene. The Davis Bacon Act regulates the classification of covered versus non-covered construction work. The Act states that a construction contract over \$2,000 on a federal job is considered covered work. After Flour sends the DOE work packets and their recommendations, a DOE Committee determines the coverage based upon the Davis Bacon Act. Flour's green booklet, for the billing trades, and white booklet, for FAT & LC, determines how the work will be done.

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Glen Griffiths, DOE, presented the workforce restructuring issues to the Committee. The total number of full-time employees employed directly by Flour Daniel has varied over the years, with a peak of almost 2,300 employees in both June and December of 1993. The DOE noticed an increase in employment, yet a decrease in funds. On February 17, 1998, a new employment policy, to manage attrition, was implemented by the DOE. Every six months, each project group evaluates and then reports to the DOE how many employees they need to complete their baseline work. The DOE then determines which job categories which require fewer people and those that which need more. From this report, supervisors can work retrain or relocate employees as needed and keep layoffs and new hires to a minimum. Staff reductions are then achieved as a result of overall attrition through resignations and retirements. Glen noted that this plan had been presented in a series of meetings to all site employees and had received positive employee feedback.

The Committee discussed feedback on its letter to Congress requesting clarification of the Defense Closure Fund. Rep. Portman has sent a series of letters asking the appropriate committees, DOE, and OMB for feedback. The Committee decided to wait for further action until receiveing these responses.



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Efficiency Committee Meeting Summary

October 14, 1998

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Topics:

- Intermodal Transport of Waste to NTS
- Waste Pits Remedial Action Project

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**FERNALD
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BOARD**

Attendees:

CAB Members:	Mike Clawson
	Bob Tabor
	Tom Wagner
	Gene Willike
CAB Support:	Tisha Patton
	Doug Sarno
CSX:	Tom Marta
DOE:	Mike Giblin (NV)
	John Hall
	Dave Lojek
	David Rast
Fluor Daniel Fernald:	Willy Benson
	Bob Fellman
	Lew Goidell
	Mike Jannelli
FRESH Members:	Sandy Butterfield
IT Corporation:	Doug Draper
	Skip Dunham
	Con Murphy

FCAB Action Items:

- 1) Write letter support the environmental assessment for intermodal transport of waste to NTS.
- 2) Write a letter to site management at Fernald to expedite intermodal to DOE Nevada.
- 3) Write a letter to the Ohio Congressional Delegation requesting the opening of the Nellis Road for truck deliveries to NTS.
- 4) Arrange for a presentation on emergency response with CSXT.

Meeting Summary:**Intermodal EA**

Mike Giblin, DOE Nevada (DOE/NV), presented the Preapproval Draft of the Environmental Assessment (EA) for Intermodal Transportation of Low-level Radioactive Waste to the Nevada Test Site. It includes the purpose and need for the intermodal transportation environmental assessment, results of the analysis, and how the public can be involved (see handouts). Mike outlined four purposes and needs for the EA: 1) DOE/NV needs to minimize risk, enhance safety, reduce cost, and be responsible to stakeholders; 2) all DOE low-level radioactive waste bound for the NTS passes through Las Vegas; 3) stakeholders believe avoiding Las Vegas reduces risk; and 4) the EA contains an analysis of rail and truck operations which go "through" and those that "avoid" Las Vegas Valley. The DOE/NV will encourage all DOE/NV approved low-level

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radioactive waste generators and their transportation contractors to use transportation alternatives which go around the Las Vegas Valley (currently approximately 80% of the waste transported to NTS travels through the Las Vegas Valley). Clark County, the county in which Las Vegas is located, wants the DOE/NV to require the use of alternative routes, however, the DOE/NV has no legal authority to require the waste generators nor their transportation contractors to use alternative routes. The DOE/NV analyzed the proposed transportation alternatives within five scenarios: 1) radiological risk under normal operations, 2) radiological risk with the probability of a traffic accident; 3) radiological risk under the assumption of a traffic accident; 4) accident risk; and a 5) traffic accident with no radioactive release - fatality from impact (see handout). DOE/NV concluded that: 1) intermodal transportation offers less radiological and accident risk than trucks; 2) the least favorable alternative is less risk than natural background radiation; and 3) DOE and the carriers of radioactive waste can be responsive to the public's routing preferences. Mike concluded that: 1) the EA is not a decision document; 2) a preferred alternative will not be identified; 3) the EA analysis will be factored into the transportation decisions made by generators; and 4) public comments are encouraged. Send comments to U.S. Department of Energy, Nevada Operations Office, Attention: Michael G. Skougard, 232 Energy Way, North Las Vegas, NV 89030 by November 30, 1998.

Waste Pits Remedial Action Project

Skip Dunham, Doug Draper, John Hall, Con Murphy, Willy Benson, and Bob Fellman presented the waste pits remedial action project. Skip Dunham reviewed the time table for the project:

Construction	July 1998 - February 1999
First Waste Loading	March 1, 1999
Operation	March 1999 - September 2004
Decontamination & Demobilization	October 2004 - May 2005
Project Complete	May 2005

Doug Draper discussed the flow of material (see handout). Most of the material will need to be screened and shredded and then dried, however, some of the material may meet the moisture requirement and can be placed directly into blending & storage. Next, Doug D. described the gas cleaning system (see handout). Some of the committee members were concerned with the emission of radon. He assured them that the emissions would be lower than the earth's normal emissions (see handout) for three reasons: because the system is new, dust buildup will not affect emissions, beta-gamma monitor will be continuously monitoring particulates and will signal any large increase in radioactive materials in the HEPA filter, and the system is unique, the HEPA filter gas will flow into an ionization chamber which will monitor for RN220/222, from there the gas will flow into a holding tank at the rate of 2 liters per minute (the tank has the capacity of 40L), there RN 222 is removed.

Willy Benson discussed the transportation aspect of the project. A total of 50 new gondola rail cars have been purchased and modified with the addition of a 60 mm thick liner and drain plug. The personnel have completed training and an emergency response plan is in place. In the 1999 Fiscal Year, eight to ten rail cars will be loaded per week and one unit train (40-60 cars) will be shipped per month. In case of an emergency en route, train crews will stabilize the situation and provide initial incident notification. Rail emergency response organizations will make additional notifications and dispatch emergency response personnel to the scene of the accident to support the on-scene commander. The DOE expects a receipt of the railroad tender (contract) by October 16, 1998 and anticipates acceptance before April 1999.

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**Intermodal Transportation
of
Low-Level Radioactive Waste
to the
Nevada Test Site**

**Pre-Approval Draft
Environmental Assessment**



Environmental Management



**U.S. Department of Energy
Nevada Operations Office**

DISCUSSION TOPICS

- The purpose and need for the Intermodal Transportation Environmental Assessment
- Results of the analysis
- How the public can be involved



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Nevada Operations Office**

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PURPOSE AND NEED

- DOE/NV needs to minimize risk, enhance safety, reduce cost, and be responsible to stakeholders.
- All DOE low-level radioactive waste bound for the NTS passes through Las Vegas.



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Nevada Operations Office

PURPOSE AND NEED

(continued)

- Stakeholders believe avoiding Las Vegas reduces risk.
- The EA contains an analysis of rail and truck operations “through” and “avoid” Las Vegas Valley.



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PROPOSED ACTION

To encourage DOE/NV approved low-level radioactive waste generators and their transportation contractors to use transportation alternatives that would further minimize radioactive risk and enhance safety.



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RULES* OF THE ROAD

- The carrier of low-level radioactive waste chooses the route.
- Select routes that minimize radiological risk
 - Consider:
 - accident rates
 - transit time
 - population density and activities
 - time of day and day of week
 - Determine comparative levels of radiological risk

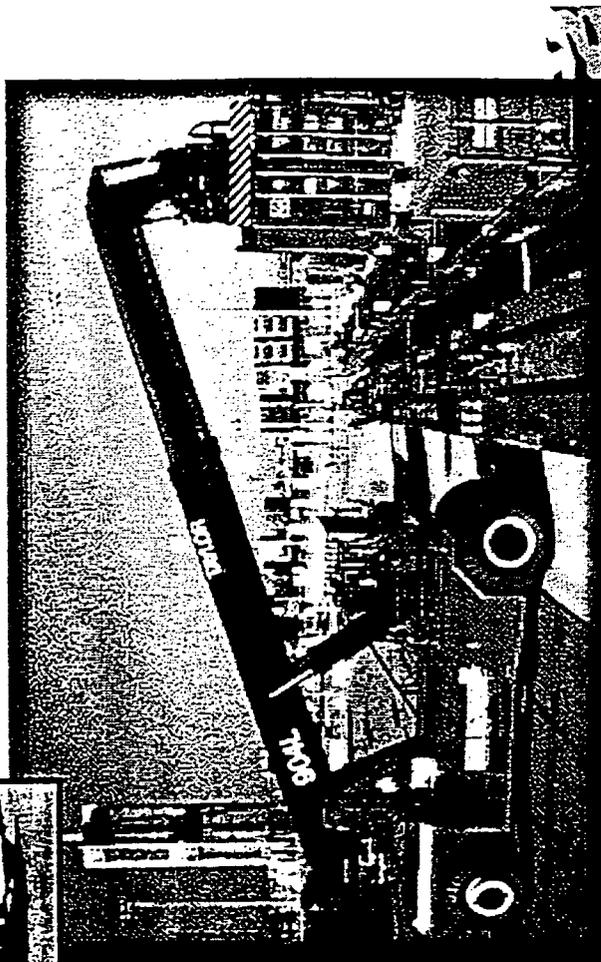
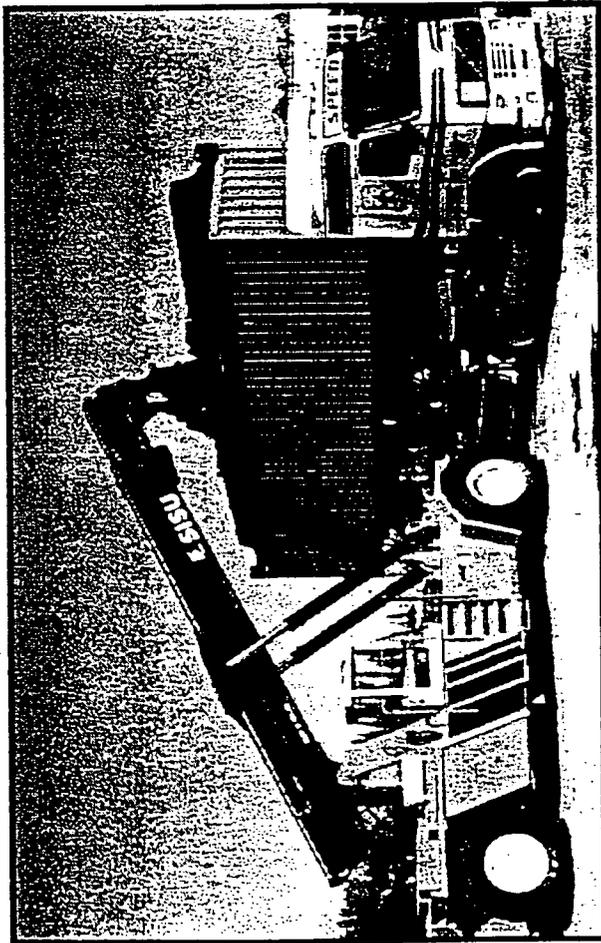
* 49 CFR 397.101



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Nevada Operations Office



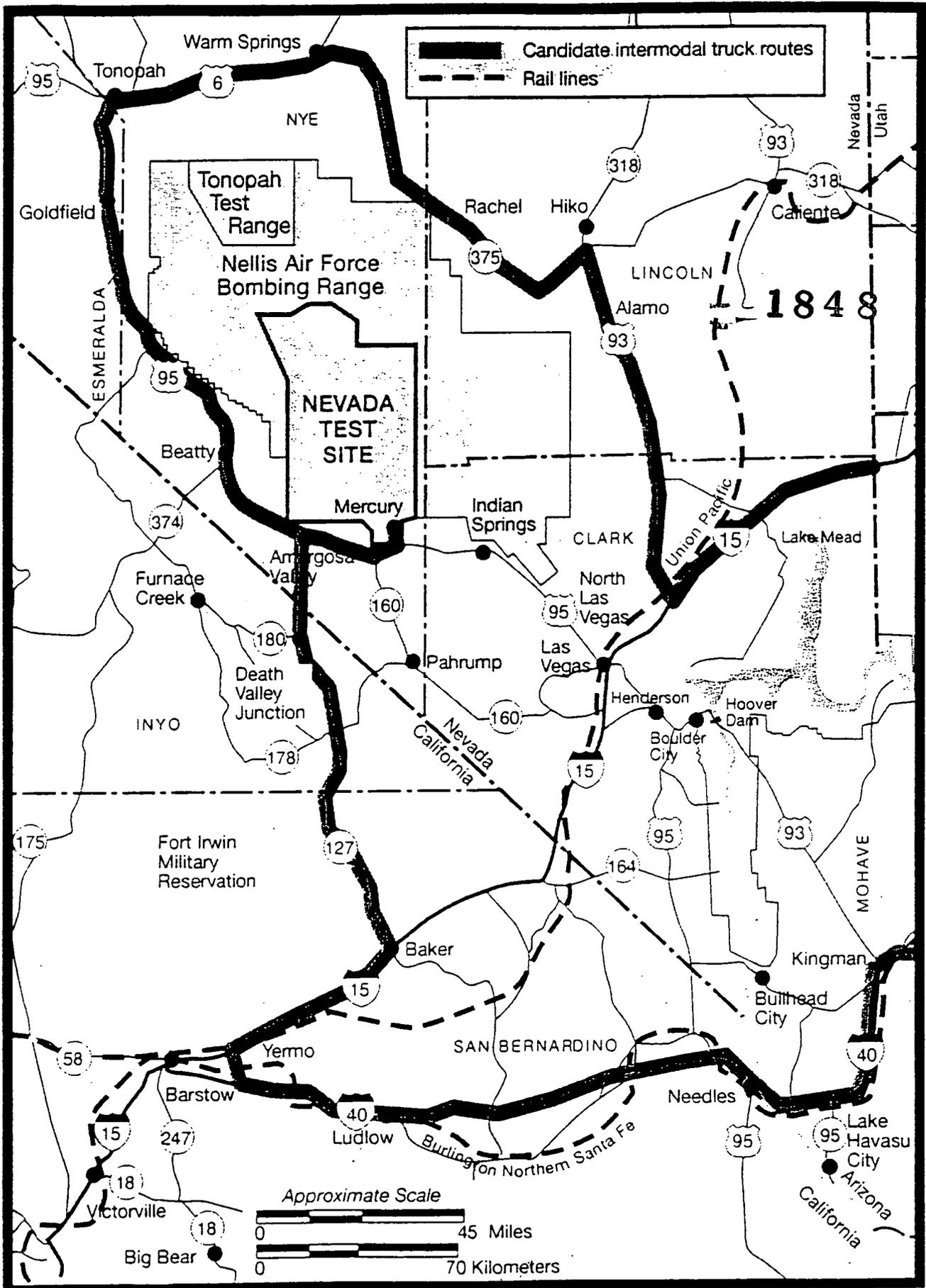
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Nevada Operations Office

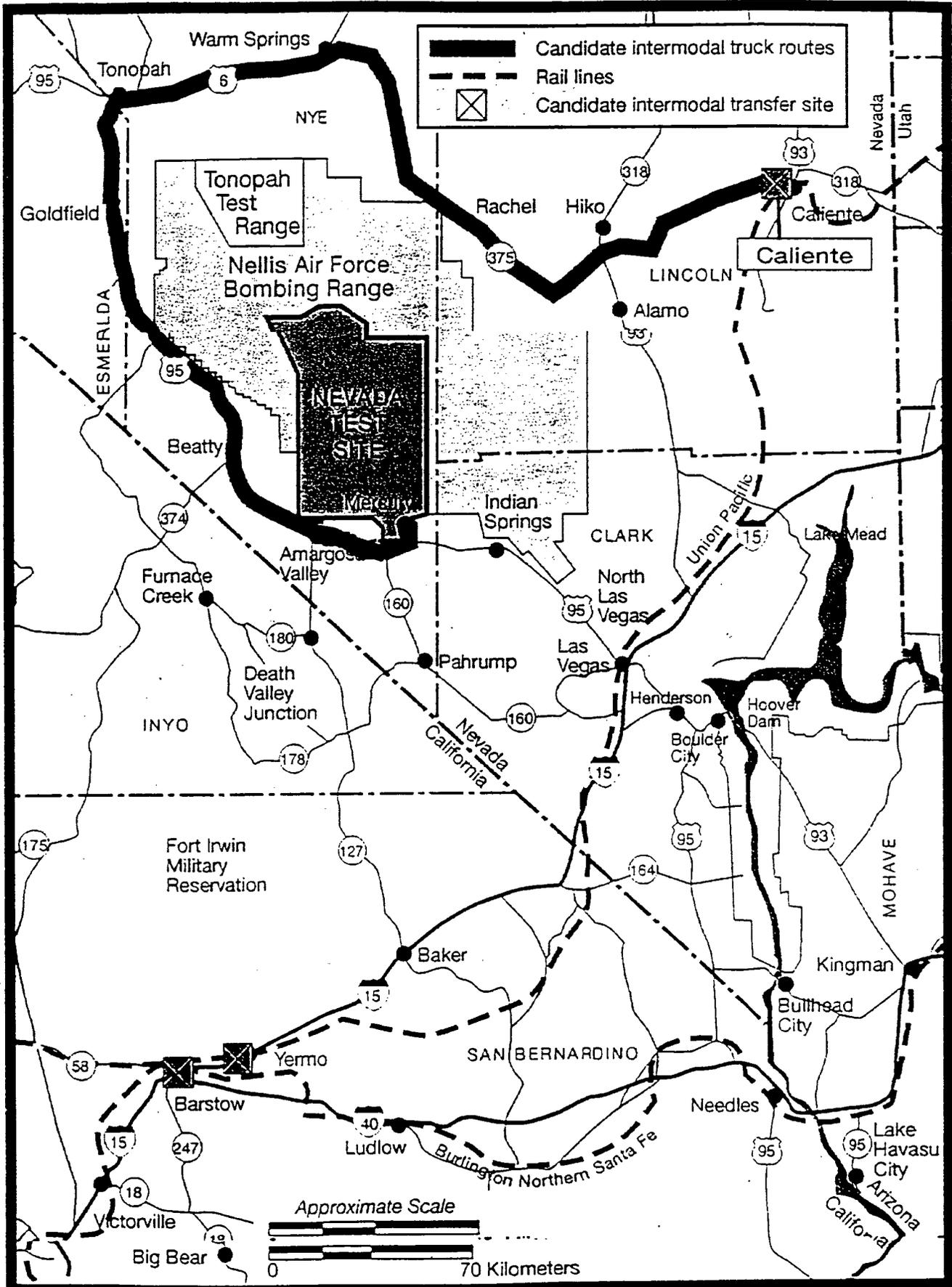
Environmental Management

All Truck Routes



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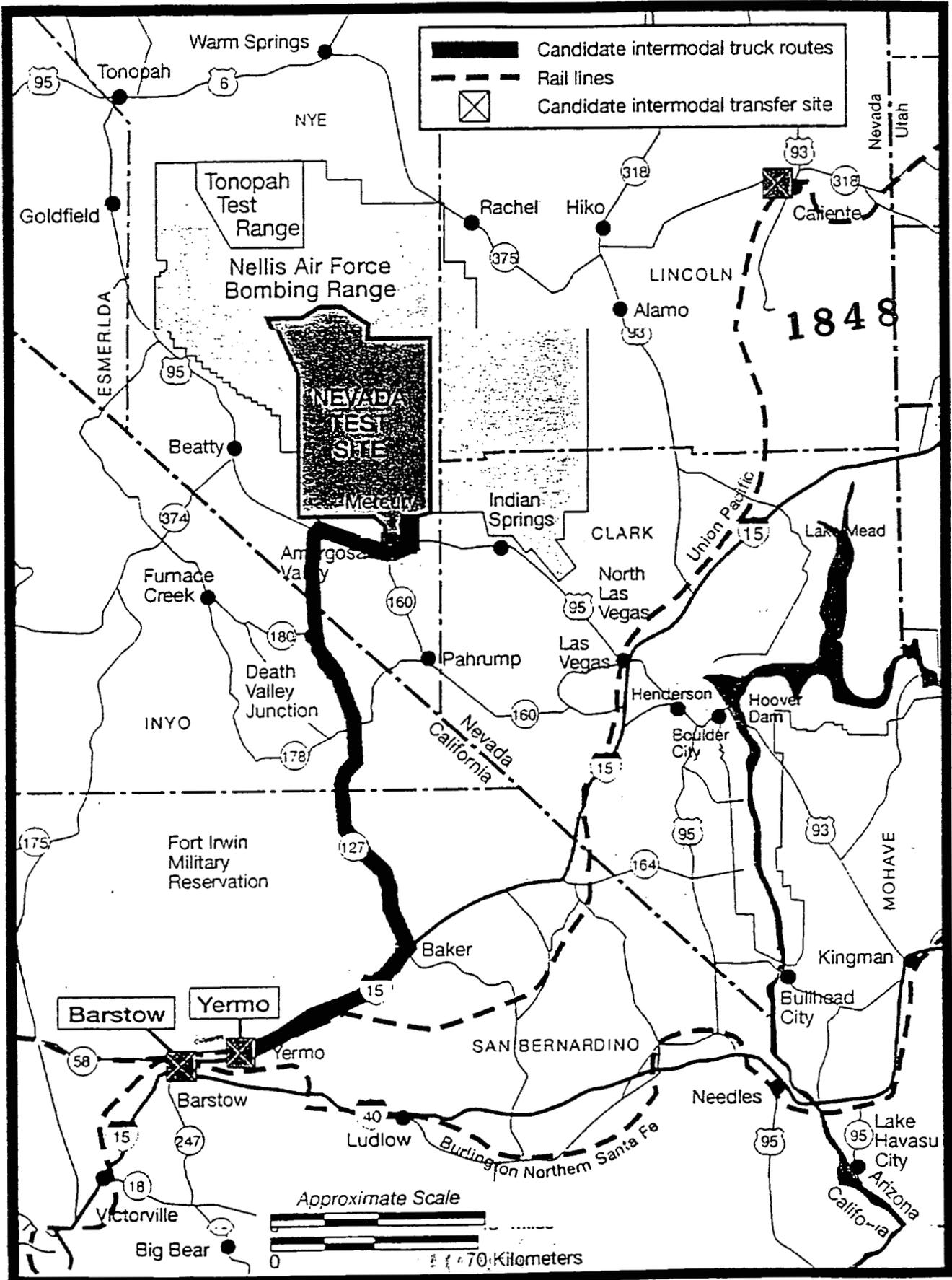
Caliente Option



1013-645E

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Barstow/Yermo Option



PROPOSED ALTERNATIVES

- No Action - no change to current practice
- All Highway Routing - avoid congestion at Hoover Dam and Las Vegas Valley
- Intermodal - rail-to-truck transfers
 - Barstow, California
 - Caliente, Nevada
 - Yermo, California - Marine Corps Base



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RADIOLOGICAL RISK Normal Operations

- Most favorable alternative:
 - Caliente Intermodal Operation
- Least favorable alternatives:
 - All Truck and No Action



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RADIOLOGICAL RISK

Normal Operations

(continued)

- Results based on:
 - number of people exposed
 - proximity to the container
 - exposure time
 - intensity of the radiation field



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RADIOLOGICAL RISK

Probable Traffic Accident

- Most favorable alternative - Caliente Intermodal option
- Least favorable alternative - No Action
- Results based on:
 - route specific data on population density
 - radiation dose weighted by accident probability



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RADIOLOGICAL RISK Assumed Traffic Accident

- Most favorable alternative - Caliente Intermodal Option
- Least favorable alternative - all others
- Results based on:
 - rural/urban population mix



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ACCIDENT RISK

- Most favorable alternative:
 - Yermo Intermodal Option
 - No Action
- Least favorable alternative - All Truck
- Results based on:
 - relative mileage of each alternative



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TRAFFIC ACCIDENT

(no radioactive release - fatality from impact)

- Most Favorable route
 - Yermo - Avoid Las Vegas Valley
 - All truck - through Las Vegas Valley
 - No action - through Las Vegas Valley
- Least favorable route
 - All truck - avoid Las Vegas Valley
- Results based on total road miles and population



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SUMMARY

- Intermodal transportation offers less radiological and accident risk than trucks.
- The least favorable alternative is less risk than natural background radiation.
- DOE and the carriers of radioactive waste can be responsive to the public's routing preferences.



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SUMMARY

(continued)

- The EA is NOT a decision document.
- A preferred alternative will NOT be identified.
- The EA analysis will be factored into the transportation decisions made by generators.
- Public comments are encouraged.



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Nevada Operations Office

PUBLIC REVIEW AND COMMENT

- Comment period closes November 30, 1998
- Mail comments to:

U.S. Department of Energy
Nevada Operations Office
Attention: Michael G. Skougard
232 Energy Way
North Las Vegas, NV 89030



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Nevada Operations Office

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WPRAP PRESENTATION TO:

**FERNALD CITIZENS ADVISORY BOARD
(FCAB)
OFF-SITE COMMITTEE**

October 12, 1998

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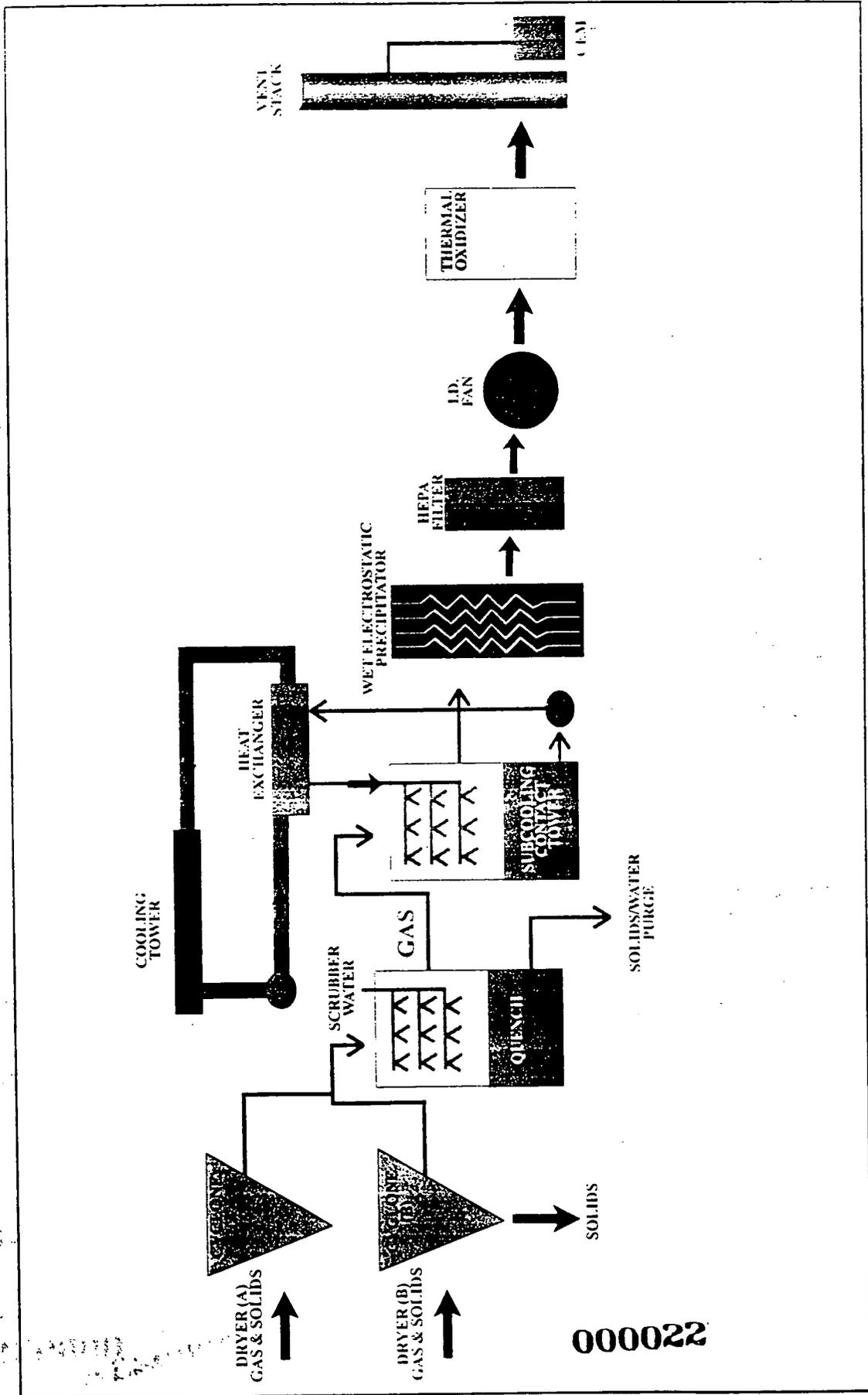
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OHM Corporation

GAS CLEANING SYSTEM



RADON

■ Contaminants

Radon

■ Control

Fugitive

Best Available Technologies: excavation pace, feed piles

Stack

GCS - does not control radon but provides for radon detection

Occupational

Personal Protective Equipment

■ Monitoring

GCS equipped with CAM and isokinetic sampler

Continuous fugitive emission monitoring and implementation of best available technologies

IEMP sitewide monitoring

Personnel monitoring (on person and monitoring within work area)

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CONTINUOUS EMISSION MONITORING SYSTEM

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- **Isokinetic Sampler:**

 - Collects particulate

 - Routine analysis for Th230, Th232, Th234, U235, U236, U238

- **Real Time Monitor:**

 - Detects increase that would indicate filter failure

- **Radon Monitoring System:**

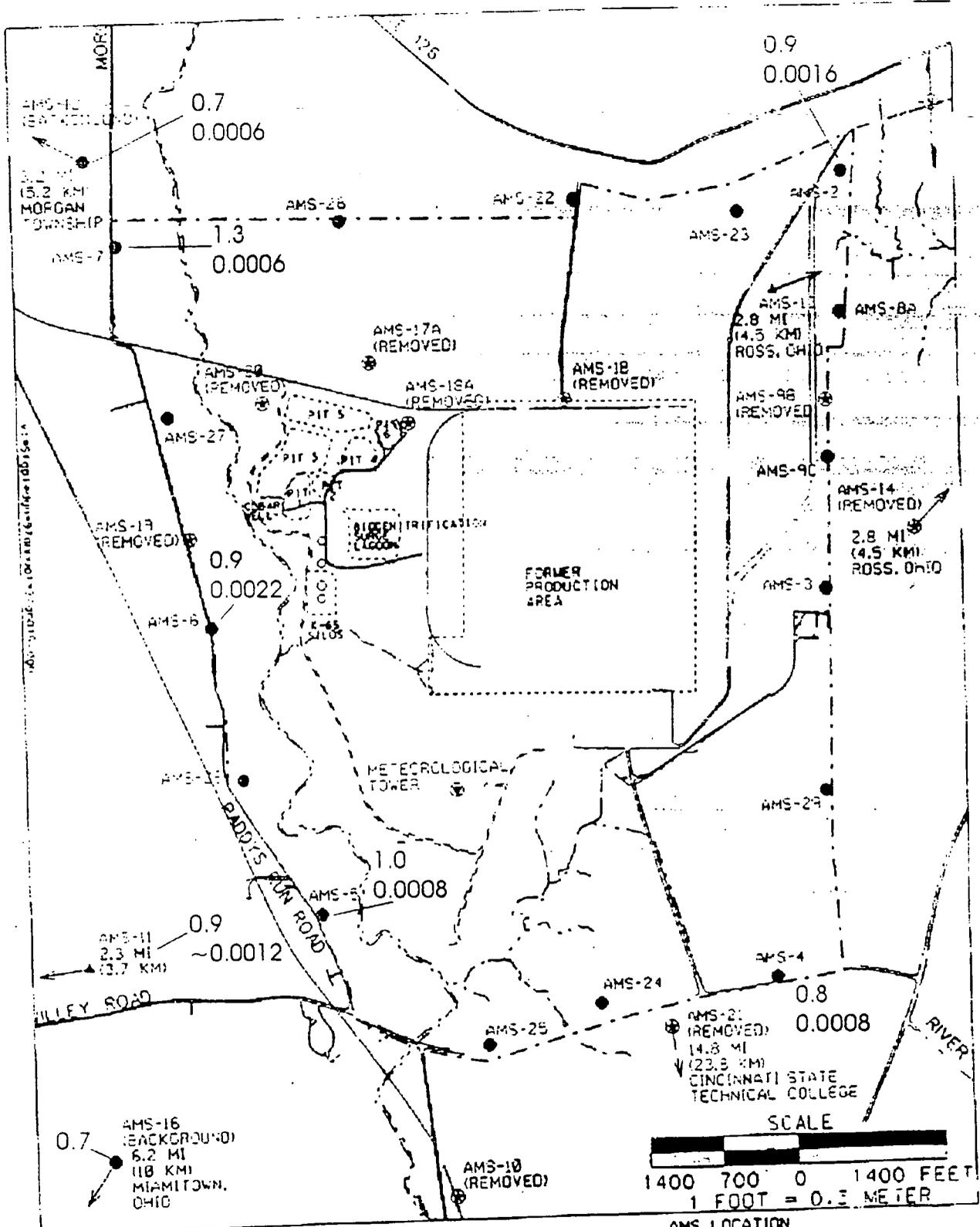
 - 2 Chambers

 - RN220/222

 - RN222

ANNUAL AVERAGE (1997) RADON CONCENTRATIONS & PROJECTED
CONCENTRATION INCREASES (pCi/l)

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LEGEND:
 - - - - - FEMP BOUNDARY
 ● IEMP AMS LOCATION
 ▲ FORMER DOE LOCATION TAKEN OVER BY CEPA

⊗ AMS LOCATION REMOVED FROM SERVICE
 ● DENOTES DISTANCE FROM CENTER OF PRODUCTION AREA TO OFF MAP LOCATION

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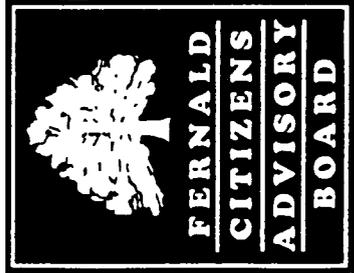
ALARA EVALUATION

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- Radon Fenceline Dose from Stack Without Carbon Beds
- <0.5 mrem/year
- Occupational Exposure, Carbon Beds
 - Contact Dose Rate 1-10 R/hr
 - 30 cm Dose Rate 0.1 - 1.5 R/hr
 - Worker Dose ~ 450 mrem/month inside shielding

FERNALD CITIZENS ADVISORY BOARD

COMMITTEE STRUCTURE



STEERING COMMITTEE

Jim Bierer (Chair)
 Tom Wagner (Vice Chair)
 Lisa Crawford
 Pam Dunn
 Bob Tabor
 Gene Willeke

- Issues:*
- Administrative Issues
 - Agenda
 - Issues Planning
 - Membership
 - Special Projects

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OFF-SITE COMMITTEE

Tom Wagner (Co-Chair)
 Gene Willeke (Co-Chair)
 Sandy Butterfield
 Marvin Clawson
 Lisa Crawford
 Darryl Huff
 Gene Jablonowski
 Kelly Kaletsky
 Bob Tabor
 Fawn Thompson

- Issues:*
- Silos
 - Transportation/
Off-Site Disposal
 - Waste Pits

ON-SITE COMMITTEE

Jim Bierer (Co-Chair)
 Pam Dunn (Co-Chair)
 Jane Harper
 Gene Jablonowski
 Mike Keyes
 Carol Schroer
 Bob Tabor
 Edwa Yocum

- Issues:*
- D & D
 - Groundwater
 - Monitoring
 - Natural Resources/
Land Use
 - OSDF
 - Recycling
 - Soils
 - Stewardship

EFFICIENCY COMMITTEE

Lisa Crawford (Co-Chair)
 Bob Tabor (Co-Chair)
 Jim Coon
 Vicki Dastillung
 Pam Dunn
 Dan McElroy
 Gene Jablonowski
 Ray Wurzelbacher

- Issues:*
- Budget
 - Mortgage Reduction
 - Priorities
 - Site Shutdown
 - Special Nuclear
Materials
 - Streamlining &
Efficiency



Contact Information

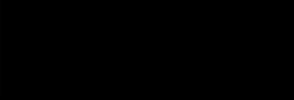
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Members

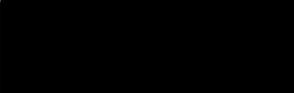
James Bierer
Ross Middle School
3371 Hamilton-Cleves Road
Hamilton, OH 45013
513-863-1251 (*office*)
513-863-0066 (*fax*)



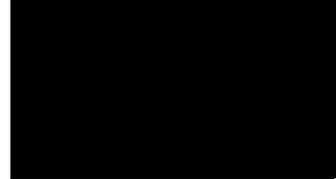
Sandy Butterfield



Marvin Clawson



Lisa Crawford



Pam Dunn



Jane Harper



Darryl Huff

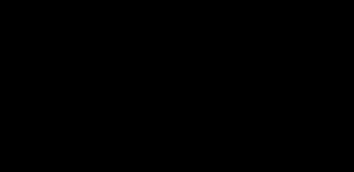


Michael Keyes
Fluor Daniel Fernald
MS 22
P.O. Box 538704
Cincinnati, OH 45253-8704
513-648-5614 (*office*)
513-648-5599 (*fax*)

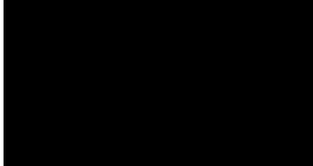
Dan McElroy



Ken Moore



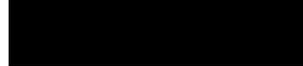
Robert Labor



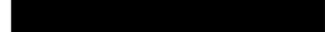
Fawn Thompson



Thomas Wagner



513-556-2041 (*office*)
513-556-1274 (*fax*)



E-mail: wagnerte@email.uc.edu

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Contact Information (cont.)

Gene Willeke

Miami University
Institute of Environmental Sciences
102 Boyd Hall
Oxford, OH 45056
513-529-5811 (office)
513-529-5814 (fax)
E-mail: willekge@muohio.edu

Ex-Officio Members

French Bell

Agency for Toxic Substances and Diseases
Registry
1600 Clifton Road NE
Mail Stop E-56
Atlanta, GA 30333
404-639-6020 (office)
404-639-6075 (fax)
E-mail: LFBO@cdc.gov

Jack Craig

U.S. Dept. of Energy- FEMP
P.O. Box 538705
Cincinnati, OH 45253-8705
513-648-3101 (office)
513-648-3071 (fax)
E-mail: jack_craig@fernald.gov

Gene Jablonowski

U.S. EPA Region V
(SRF -5J)
77 W. Jackson Blvd.
Chicago, IL 60604
312-886-4591 (office)
312-353-8426 (fax)
E-mail:
jablonowski.eugene@epamail.epa.gov

Graham Mitchell

Ohio EPA
Southwest District Office
401 East Fifth Street
Dayton, OH 45402-2911
937-285-6018 (office)
937-285-6249 (fax)
E-mail: graham_mitchell@epa.state.oh.us

Support Staff

Phoenix Environmental Corporation
Doug Sarno, Technical Support
Crystal Sarno, Administration/Graphics
Gwen Doddy Administration
6186 Old Franconia Road
Alexandria, VA 22310

513-648-6478 (local Cincinnati)
513-648-3629 (local Cincinnati fax)
703-971-0030 (Alexandria)
703-971-0006 (fax)
E-mail: djsarno@aol.com

Citizens Advisory Board Office

(located in Trailer 38)

Mailing Address:

P.O. Box 544
Ross, OH 45061
513-648-4958, (when Doug is on site)
513-648-4955 (fax, when Doug is on site)

Fluor Daniel Fernald Contacts

Tisha Patton

Flour Daniel Fernald
P.O. Box 538704
Cincinnati, OH 45253-8704
513-648-5277 (office)
513-648-4955 (fax)
E-mail: tisha.patton@fernald.gov

Susan J. Walpole

Fluor Daniel Fernald Public Affairs
P.O. Box 538704
Cincinnati, OH 45253-8704
513-648-4026 (office)
513-648-4011 (fax)
E-mail: swalpole@fernald.gov

DOE Contacts

Leah Dever

US DOE -Ohio Field Office
P.O. Box 3020
Miamisburg, OH 45343-3020
937-865-3977 (office)
937-865-3426 (fax)

Ken Morgan

US DOE- Ohio Field Office
P.O. Box 3020
Miamisburg, OH 45343-3020
937-865-3968 (office)
937-865-4397 (fax)

Gary Stegner

Dept. of Energy- FEMP
P.O. Box 538705
Cincinnati, OH 45253
513-648-3153 (office)
513-648-3073 (fax)
E-mail: gary_stegner.fernald.gov