



*Office of
Fissile Materials Disposition*

United States Department of Energy

***Storage and Disposition of
Weapons-Usable Fissile Materials
Final Programmatic Environmental
Impact Statement***

Comment Response Document

Volume IV - Part A

December 1996

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Attention: Storage and Disposition of Weapons-Usable Fissile Materials
Final Programmatic Environmental Impact Statement/Volume IV - Part A

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ABSTRACT: This document analyzes the potential environmental consequences of alternatives for the long-term storage (up to 50 years), including storage until disposition, and disposition of weapons-usable fissile materials from U.S. nuclear weapon dismantlements under the responsibility of the DOE. Long-term storage of nonsurplus inventories of weapons-usable plutonium (Pu) and highly enriched uranium (HEU) are required for national defense purposes, while the disposition of surplus weapons-usable Pu is necessary in order to implement our national nonproliferation policy. In addition to the No Action Alternative, this PEIS assesses three storage alternatives (that is, upgrade at multiple sites, consolidation of Pu, and collocation of Pu and HEU) at six DOE candidate sites located across the country. These sites are Hanford Site, Nevada Test Site, Idaho National Engineering Laboratory, Pantex Plant, Oak Ridge Reservation, and Savannah River Site. Although they are not candidate sites for storage, Rocky Flats Environmental Technology Site (RFETS) and Los Alamos National Laboratory are assessed for the No Action Alternative. For the disposition of surplus Pu, three alternative categories (that is, deep borehole, immobilization, and reactor) with nine primary alternatives are assessed at several DOE and representative sites for analysis purposes. Evaluations of impacts on site infrastructure, water resources, air quality and noise, socioeconomics, waste management, public and occupational health and safety, and environmental justice are included in the assessment. The intersite transportation of nuclear and hazardous materials is also assessed. DOE's Preferred Alternative is identified in this Final PEIS. The Preferred Alternative for storage is a combination of No Action and Upgrade Alternatives for the various DOE sites, and phaseout of Pu storage at RFETS. The Preferred Alternative for disposition of surplus Pu is to pursue a disposition strategy involving a combination of immobilization and reactor alternatives, including vitrification, ceramic immobilization, and existing reactors.

PUBLIC INVOLVEMENT: The DOE issued a Draft PEIS on March 8, 1996, and held a formal public comment period on the Draft through June 7, 1996. In preparing the Final PEIS, DOE considered comments received via mail, fax, electronic bulletin board (Internet), and transcripts of messages recorded by telephone. In addition, comments and concerns were recorded by notetakers during interactive public meetings held during March and April 1996 in Denver, CO, Las Vegas, NV, Oak Ridge, TN, Richland, WA, Idaho Falls, ID, Washington, DC, Amarillo, TX, and North Augusta, SC. Comments received and DOE's responses to those comments are found in Volume IV of the Final PEIS.



DOE/EIS-0229

Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic Environmental Impact Statement

Comment Response Document

Volume IV - Part A

**United States Department of Energy
Office of Fissile Materials Disposition**

December 1996

FOREWORD

This is the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic Environmental Impact Statement* (PEIS), prepared by the U.S. Department of Energy, Office of Fissile Materials Disposition. The document is composed of four volumes and a separate Summary. Changes made since the Draft PEIS are shown by change bar notation (vertical lines adjacent to the changes) in this Final PEIS for both text and tables. Deletion of one or more sentences is indicated by the phrase "Text deleted." in brackets. This Final PEIS includes the Preferred Alternative, which is a combination of alternatives. The Preferred Alternative is described in Section 1.6 and Chapter 2 of Volume I, and analyzed in Chapter 4 of Volume II. For all the alternatives, including the Preferred Alternative, a comparison of alternatives is presented in Section 2.5 of Volume I and a summary of impacts is presented in Section 4.6 of Volume II (Part B). Information from these sections is also presented in the Summary.

Volume I contains Chapters 1 through 3 of the PEIS. Chapter 1 includes a description of the history and background of the fissile materials disposition program, the purpose of and need for the proposed action, a summary of changes made to the Draft PEIS, and the Preferred Alternative. Chapter 2 gives a description of the proposed long-term storage and disposition alternatives, a description of how the alternatives were selected and why others were eliminated from further consideration, and a comparison of the alternatives in terms of their potential environmental impacts. Chapter 3 describes the affected environment at candidate long-term storage locations, and at sites and environmental settings for the disposition alternatives.

Volume II (Parts A and B) contains Chapters 4 through 10 of the PEIS. Chapter 4 describes the potential environmental impacts resulting from construction and operation of the proposed long-term storage and disposition alternatives, including the Preferred Alternative. Also contained in this chapter are intersite transportation impacts, a discussion of environmental justice issues, cumulative impacts due to the implementation of the proposed alternatives in addition to other actions at a site, avoided environmental impacts, and a summary of impacts. Chapter 5 provides a list of references used in the preparation of this document. Chapter 6 provides an index to the main text of the PEIS. Chapter 7 is a glossary of key terms used in the document. Chapter 8 is a list of preparers. Chapter 9 lists government agencies and organizations contacted during the preparation of this PEIS. Chapter 10 provides a distribution list for the document.

Volume III contains the appendices to this PEIS. Appendix A contains the fact sheet on the President's *Nonproliferation and Export Control Policy*, and the Joint Statement Between the United States and Russia on Nonproliferation. Appendix B provides specifications for key buildings within each facility complex analyzed in this PEIS. Appendix C describes requirements for construction and operation of the various facilities required to accomplish the storage and disposition activities essential to the alternatives described in this PEIS. Appendix D provides information on overall water usage for the storage and disposition facilities discussed in this PEIS. Appendix E gives a general overview of the Department of Energy (DOE) environmental restoration and waste management program, baseline waste management at DOE sites, and project-specific waste management activities associated with the proposed long-term storage and disposition alternatives. Appendix F provides detailed data supporting the air quality and noise analyses. Appendix G describes the methodology used for intersite transportation risk analysis and provides a summary of hazardous materials shipped to and from DOE sites, plus information on shipping containers. Appendix H evaluates various plutonium waste forms for potential disposal in a high-level waste repository. Appendix I describes operations of a Canadian Deuterium Uranium Reactor. Appendix J identifies the compliance requirements associated with the Proposed Action, as specified by the major Federal and State environmental, safety, and health statutes, regulations, and orders. Appendix K lists the scientific names of common nonthreatened and nonendangered animal and plant species identified in Chapters 3 and 4. Appendix L includes the supporting data used for assessing the No Action

Alternative in the socioeconomics sections of this PEIS. Appendix M presents detailed information on the potential health risks associated with releases of radioactivity and hazardous chemicals from the proposed storage and disposition alternatives during normal operations and from postulated accidents. Appendix N describes different concepts for, and provides cost and benefit information on, the multipurpose reactor. Appendix O provides a description of facilities and operations for a can-in-canister approach to plutonium immobilization at the Savannah River Site in South Carolina. Appendix P describes the potential environmental impacts of using the Manzano Weapons Storage Area in New Mexico for the long-term storage of plutonium pits. Appendix Q identifies the potential health impacts from the storage of Rocky Flats Environmental Technology Site plutonium pits at the Pantex Plant in Texas. Appendix R discusses the aircraft crash and radioactive release probabilities for proposed storage and disposition facilities at Pantex Plant in Texas. A separate Classified Appendix was also prepared, which provides detailed analysis results for intersite transportation risks based on classified inventories of materials stored at DOE sites.

Volume IV (Parts A and B) is the Comment Response Document. It contains an overview of the public comment process, the comments received on the Draft PEIS during the public review period, and the DOE responses to those comments, including identifying changes made to the Draft PEIS in response to public comments.

The Summary provides a brief overview of the PEIS. It includes the purpose of and need for the Proposed Action, a description of the storage and disposition alternatives including the Preferred Alternative, and the potential environmental impacts resulting from these alternatives.

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LIST OF ACRONYMS AND ABBREVIATIONS

AADT	Average Annual Daily Traffic
ACEC	Area of Critical Environmental Concern
ACGIH	American Conference of Governmental Industrial Hygienists
AEA	<i>Atomic Energy Act</i>
AEC	Atomic Energy Commission
AGV	automated guided vehicle
ALARA	as low as reasonably achievable
ALE	Arid Lands Ecology Reserve
ANL-W	Argonne National Laboratory-West
APSF	Actinide Packaging and Storage Facility
AQCR	Air Quality Control Region
ARA	Auxiliary Reactor Area
ARIES	Advanced Recovery and Integrated Extraction System
BEA	Bureau of Economic Analysis
BEIR	biological effects of ionizing radiation
BLM	Bureau of Land Management
BOP	balance-of-plant
BPA	Bonneville Power Administration
BWR	boiling water reactor
CAA	<i>Clean Air Act</i>
CANDU	Canadian deuterium uranium
CAS	Chemical Abstracts Service
CCDF	complimentary cumulative distribution function
CEQ	Council on Environmental Quality
CERCLA	<i>Comprehensive Environmental Response, Compensation, and Liability Act</i>
CFA	Central Facilities Area
CFR	Code of Federal Regulations
CGTO	Consolidated Group of Tribes and Organizations
CI	confidence interval
CIC	can-in-canister
CLUP	Comprehensive Land-Use Plan
CMR	Chemistry and Metallurgy Research

COE	Corps of Engineers
Complex	Nuclear Weapons Complex
CRD	Comment Response Document
CRT	Cargo Restraint Transporters
CWA	<i>Clean Water Act</i>
D&D	decontamination and decommissioning
DAF	Device Assembly Facility
DCG	derived concentration guide
DHLW	defense high-level waste
DNB	departure of nucleate boiling
DNFSB	Defense Nuclear Facilities Safety Board
DNL	day and night average sound levels
DNWR	Desert National Wildlife Range
DoD	Department of Defense
DOE	Department of Energy
DOT	Department of Transportation
DP	Office of Defense Programs
DRCOG	Denver Regional Council of Governments
DWPF	Defense Waste Processing Facility
EA	environmental assessment
EBR	Experimental Breeder Reactor
EDNA	Environmental Design for Noise Abatement
EIA	Energy Information Administration
EIS	environmental impact statement
EM	Office of Environmental Management
EPA	Environmental Protection Agency
ERR	excess relative risk
ES&H	Office of Environment, Safety, and Health
ESA	<i>Endangered Species Act</i>
ETF	effluent treatment facility
FAIR	Forest, Agriculture, Industry, and Research
FCF	Fuel Cycle Facility
FEMA	Federal Emergency Management Agency
FFCA	Federal Facility Compliance Agreement
FFTF	Fast Flux Test Facility

FLPMA	<i>Federal Land Planning Management Act</i>
FMEF	Fuels and Materials Examination Facility
FMF	Fuel Manufacturing Facility
FONSI	Finding of No Significant Impact
FR	Federal Register
FSAR	Final Safety Analysis Report
GBZ	Glass-bonded zeolite
GESMO	Generic Environmental Statement on Mixed Oxide
GIS	Geographical Information System
GMA	<i>Growth Management Act</i>
GMODS	Glass Material Oxidation Dissolution System
HAD	hazard analysis document
Hanford	Hanford Site
HE	high explosives
HEAST	Health Effects Summary Table
HEPA	high-efficiency particulate air
HEU	highly enriched uranium
HEU EIS	<i>Disposition of Surplus Highly Enriched Uranium Environmental Impact Statement</i>
HFEF	Hot Fuel Examination Facility
HI	Hazard Index
HLW	high-level waste
HQ	Hazard Quotient
HRA EIS	<i>Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan</i>
HVAC	Heating Ventilation and Air Conditioning
HWR	Heavy Water Reactor
IAEA	International Atomic Energy Agency
ICPP	Idaho Chemical Processing Plant
ICRP	International Commission of Radiological Protection
INEL	Idaho National Engineering Laboratory
IRIS	Integrated Risk Information System
ISCST2	Industrial Source Complex Short-Term Model Version 2
ISO	International Standards Organization
IWG	Interagency Working Group
K-25	K-25 Site

L/ER	Energy Research Program Office
LA	Limited Area
LAA	Limited Access Area
LANL	Los Alamos National Laboratory
LANSCE	Los Alamos Neutron Scattering Center
LCF	latent cancer fatalities
LDR	Land Disposal Restriction
LEU	low-enriched uranium
LIGO	Laser Interferometer Gravitational-Wave Observatory
LLNL	Lawrence Livermore National Laboratory
LLW	low-level waste
LOB	Laboratory Office Building
LWR	Light Water Reactor
MAA	Material Access Area
MACCS	Melcor Accident Consequence Code System
MC&A	Material Control and Accountability
MD	Office of Fissile Materials Disposition
MEI	maximally exposed individual
MHR	Modular Helium Reactor
MMI	Modified Mercalli Index
MOX	mixed oxide
MSL	mean sea level
NAAQS	National Ambient Air Quality Standards
NAGPRA	<i>Native American Graves Protection and Repatriation Act</i>
NAS	National Academy of Sciences
NCDC	National Climatic Data Center
NCRP	National Commission of Radiological Protection
NEIC	National Earthquake Information Center
NEPA	<i>National Environmental Policy Act</i>
NERP	National Environmental Research Park
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFS	Nuclear Fuel Services Fuel Fabrication Plant
NHPA	<i>National Historic Preservation Act</i>
NIOSH	National Institute of Occupational Safety and Health
NMSF	Nuclear Material Storage Facility

NMSM	Nuclear Materials and Stockpile Management
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRC	Nuclear Regulatory Commission
NRF	Naval Reactors Facility
NRHP	National Register of Historic Places
NTS	Nevada Test Site
NTS EIS	<i>Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada</i>
NWI	National Wetlands Inventory
NWPA	<i>Nuclear Waste Policy Act</i>
NWS	National Weather Service
OCRWM	Office of Civilian Radioactive Waste Management
ORISE	Oak Ridge Institute for Science and Education
ORNL	Oak Ridge National Laboratory
ORR	Oak Ridge Reservation
OSHA	Occupational Safety and Health Administration
PA	Protected Area
Pantex	Pantex Plant
Pantex EIS	<i>Environmental Impact Statement for the Continued Operation of the Pantex Plant and Associated Storage of Nuclear Weapon Components</i>
PBF	Power Burst Facility
PCV	Primary Containment Vessel
PEIS	programmatic environmental impact statement
PEL	Permissible Exposure Level
PFP	Plutonium Finishing Plant
PFP EIS	<i>Plutonium Finishing Plant Stabilization Environmental Impact Statement</i>
PIDAS	Perimeter Intrusion Detection and Alarm System
PNNL	Pacific Northwest National Laboratory
PPA	Property Protection Area
PRA	probabilistic risk assessment
PSAR	Preliminary Safety Analysis Report
PSD	Prevention of Significant Deterioration

PUREX	Plutonium-Uranium Extraction Plant
PWR	pressurized water reactor
R&D	Research and Development
RCRA	<i>Resource Conservation and Recovery Act</i>
REA	regional economic area
RIA	reactivity insertion accident
RFETS	Rocky Flats Environmental Technology Site
RIMS II	Regional Input-Output Modeling System
RL	Richland Operations Office
ROD	Record of Decision
ROI	region of influence
RSWF	Radioactive Scrap and Waste Facility
RWMC	Radioactive Waste Management Complex
RWMS	Radioactive Waste Management Site
SAR	Safety Analysis Report
SARA	<i>Superfund Amendments and Reauthorization Act</i>
sd	standard deviation
SDWA	<i>Safe Drinking Water Act</i>
SEB	Security Equipment Building
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SISMP	Site Integrated Stabilization and Management Plan
SMR	Standardized Mortality Ratio
SNF	spent nuclear fuel
SNL	Sandia National Laboratories
SRR	standardize rate ratio
SRS	Savannah River Site
Stockpile Stewardship and Management PEIS	<i>Programmatic Environmental Impact Statement for Stockpile Stewardship and Management</i>
Storage and Disposition PEIS	<i>Storage and Disposition of Weapons-Usable Fissile Materials Programmatic Environmental Impact Statement</i>
SST	safe secure trailer
START	Strategic Arms Reduction Talks

TA	Technical Area
TAN	Test Area North
TCLP	toxicity characteristic leaching procedure
TDEC	Tennessee Department of Environmental Conservation
TDS	total dissolved solids
TI	transport index
TLV	Threshold Limit Values
TNRCC	Texas Natural Resources Conservation Commission
TRA	Test Reactor Area
TRU	transuranic
TSCA	<i>Toxic Substance Control Act</i>
TSD	Transportation Safeguards Division
TSP	total suspended particulates
TSR PEIS	<i>Tritium Supply and Recycling Programmatic Environmental Impact Statement</i>
TVA	Tennessee Valley Authority
USFWS	United States Fish and Wildlife Services
USGS	United States Geological Survey
VOC	volatile organic compound
VRM	Visual Resource Management
WAC	Waste Acceptance Criteria
Waste Management PEIS	<i>Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste</i>
WIPP	Waste Isolation Pilot Plant
WMIS	Waste Management Information System
WNP	Washington Nuclear Power
WPPSS	Washington Public Power Supply System
WSA	Weapons Storage Area
WSCC	Western Systems Coordinating Council
WSCF	Waste Sampling and Characterization Facility
Y-12	Y-12 Plant
Y-12 EA	<i>Environmental Assessment for the Proposed Interim Storage of Enriched Uranium Above the Maximum Historical Level at the Y-12 Plant, Oak Ridge, Tennessee</i>
YMSCO	Yucca Mountain Site Characterization Office
ZPPR	Zero Power Physics Reactor

CHEMICALS AND UNITS OF MEASURE

°C	degrees Celsius
Ci	curie
cm	centimeter
CO	carbon monoxide
CO ₂	carbon dioxide
Co-60	cobalt-60
Cs	cesium
Cs-137	cesium-137
CsCl	cesium chloride
Cu	copper
dB	decibel
dBA	decibel A-weighted
°F	degrees Fahrenheit
ft	feet
ft ²	square feet
ft ³	cubic feet
g	gram
G	gravitational acceleration
gal	gallon
Gd	gadolinium
GWd	gigawatt-days
ha	hectare
H ₂	hydrogen
HF	hydrogen fluoride
HNO ₃	nitric acid
hr	hour
I-129	iodine-129
in	inch
k _{eff}	effective neutron multiplication factor
kg	kilogram
km	kilometer
km ²	square kilometer

Kr	krypton
kV	kilovolt
l	liter
lb	pound
m	meter
m ²	square meter
m ³	cubic meter
mCi	millicurie
mg	milligram
mi	mile
mi ²	square miles
min	minute
mph	miles per hour
mrem	millirem (one thousandth of a rem)
MW	megawatt
MWe	megawatt electric
N ₂	nitrogen
nCi	nanocurie (one-billionth of a Curie)
Ni	nickel
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
O ₃	ozone
oz	ounce
Pb	lead
PCB	polychlorinated biphenyl
pCi	picocurie (one-trillionth of a Curie)
PM ₁₀	particulate matter less than or equal to 10 microns
ppm	parts per million
Pu	plutonium
PuCl	plutonium chloride
PuO ₂	plutonium dioxide
rad	radiation absorbed dose
rem	roentgen equivalent man
RfC	Reference Concentration
RfD	Reference Dose

s	second
SO ₂	sulfur dioxide
Sr-90	strontium-90
t	metric ton
Tc-99	technetium-99
ton	short ton
U	uranium
U-233	uranium-233
U-234	uranium-234
U-235	uranium-235
U-236	uranium-236
U-238	uranium-238
UF ₆	uranium hexafluoride
UNH	uranium nitrate hexahydrate
UO ₂	uranium dioxide
U ₃ O ₈	triuranium octaoxide
VOC	volatile organic compound
yd	yard
yr	year
μg	microgram (one-millionth of a gram)

METRIC CONVERSION CHART

To Convert Into Metric			To Convert Out of Metric		
If You Know	Multiply By	To Get	If You Know	Multiply By	To Get
Length					
inches	2.54	centimeters	centimeters	0.3937	inches
feet	30.48	centimeters	centimeters	0.0328	feet
feet	0.3048	meters	meters	3.281	feet
yards	0.9144	meters	meters	1.0936	yards
miles	1.60934	kilometers	kilometers	0.6214	miles
Area					
sq. inches	6.4516	sq. centimeters	sq. centimeters	0.155	sq. inches
sq. feet	0.092903	sq. meters	sq. meters	10.7639	sq. feet
sq. yards	0.8361	sq. meters	sq. meters	1.196	sq. yards
acres	0.40469	hectares	hectares	2.471	acres
sq. miles	2.58999	sq. kilometers	sq. kilometers	0.3861	sq. miles
Volume					
fluid ounces	29.574	milliliters	milliliters	0.0338	fluid ounces
gallons	3.7854	liters	liters	0.26417	gallons
cubic feet	0.028317	cubic meters	cubic meters	35.315	cubic feet
cubic yards	0.76455	cubic meters	cubic meters	1.308	cubic yards
Weight					
ounces	28.3495	grams	grams	0.03527	ounces
pounds	0.45360	kilograms	kilograms	2.2046	pounds
short tons	0.90718	metric tons	metric tons	1.1023	short tons
Temperature					
Fahrenheit	Subtract 32 then multiply by 5/9ths	Celsius	Celsius	Multiply by 9/5ths, then add 32	Fahrenheit

METRIC PREFIXES

Prefix	Symbol	Multiplication Factor
exa-	E	1 000 000 000 000 000 000 = 10 ¹⁸
peta-	P	1 000 000 000 000 000 = 10 ¹⁵
tera-	T	1 000 000 000 000 = 10 ¹²
giga-	G	1 000 000 000 = 10 ⁹
mega-	M	1 000 000 = 10 ⁶
kilo-	k	1 000 = 10 ³
hecto-	h	100 = 10 ²
deka-	da	10 = 10 ¹
deci-	d	0.1 = 10 ⁻¹
centi-	c	0.01 = 10 ⁻²
milli-	m	0.001 = 10 ⁻³
micro-	μ	0.000 001 = 10 ⁻⁶
nano-	n	0.000 000 001 = 10 ⁻⁹
pico-	p	0.000 000 000 001 = 10 ⁻¹²
femto-	f	0.000 000 000 000 001 = 10 ⁻¹⁵
atto-	a	0.000 000 000 000 000 001 = 10 ⁻¹⁸

Chapter 1

Issue Categories

1.1 INTRODUCTION

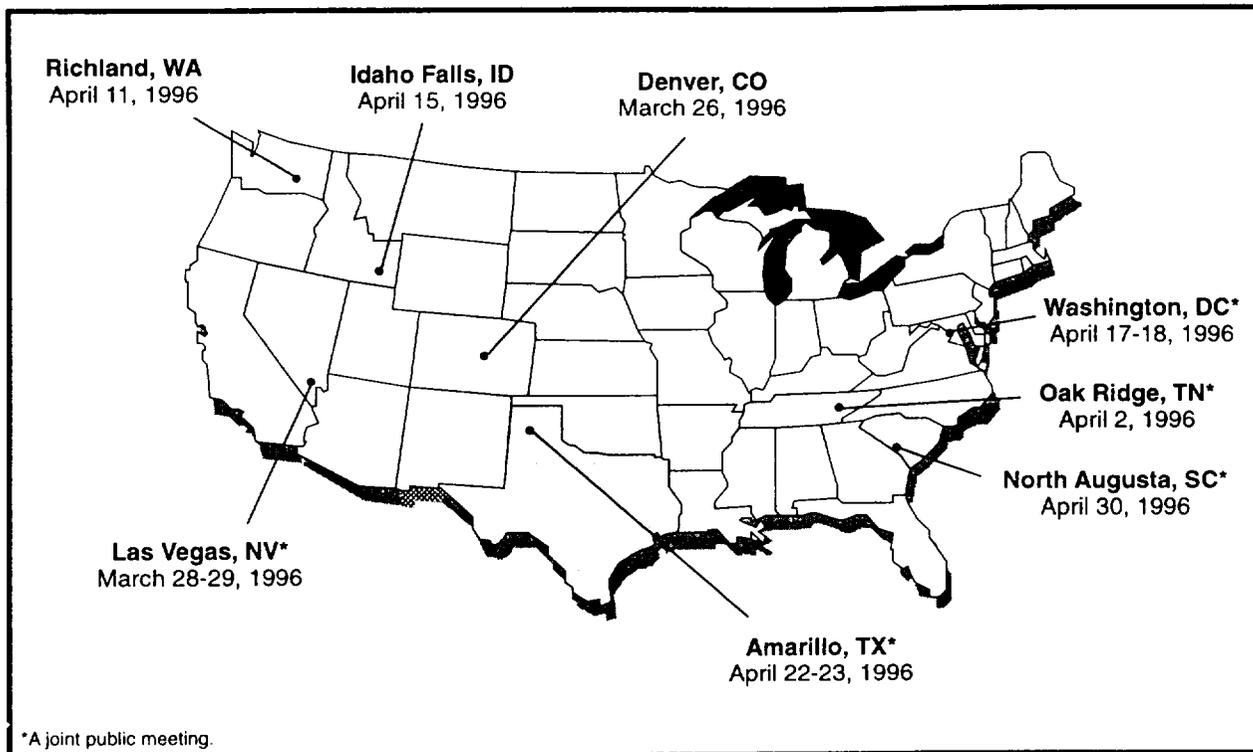
In February 1996, the Department of Energy (DOE) published the *Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic Environmental Impact Statement* (Storage and Disposition Draft PEIS). This PEIS analyzes the direct, indirect, and cumulative environmental effects of reasonable alternatives for the long-term storage and disposition of weapons-usable fissile materials. Following the guidelines set forth in the *National Environmental Policy Act* (NEPA), DOE established a comment period to allow the public to review and comment on the Storage and Disposition Draft PEIS. The public comment period was originally from March 8 through May 7, 1996 (61 FR 9443); however, in response to public request, DOE extended the comment period through June 7, 1996 (61 FR 22038). Comments were accepted as late as June 24, 1996.

During the comment period, public meetings were held at eight locations. Figure 1.1-1 shows the dates and locations of these meetings. Five of the public meetings were joint meetings to obtain comments on both the Storage and Disposition Draft PEIS and the *Draft Programmatic Environmental Impact Statement for Stockpile Stewardship and Management* (Stockpile Stewardship and Management PEIS). Two of the joint meetings (Amarillo, Texas, and North Augusta, South Carolina) also included the *Draft Environmental Impact Statement for the Continued Operation of the Pantex Plant and Associated Storage of Nuclear Weapons Components* (Pantex EIS). The public meetings were directed by a neutral facilitator, and comments and concerns were recorded by notetakers.¹ In addition to public meetings, the public was encouraged to provide comments via mail, fax, telephone (toll-free number), and electronic bulletin board (Internet).

Attendance at each meeting and the number of comments recorded and documents received via other methods during the public comment period are presented in Tables 1.1-1 and 1.1-2, respectively. Attendance numbers for the public meetings were based on the number of participants who completed and returned registration forms. A number of comment documents submitted during the public meetings were recorded as part of the minutes. In some instances, the same comment documents were also submitted as hand-ins at the end of the meeting. In these cases, these documents were analyzed once, as part of the minutes or as stand-alone comment documents. A list appears at the beginning of each public meeting response document showing all the hand-ins that were included as part of the minutes and the page numbers on which they can be found in the *Comment Response Document* (CRD).

Each comment document received by mail, fax, telephone, or electronic bulletin board was marked with the date of receipt and assigned a sequential document number according to its origin (for example, F-001 was assigned to a faxed submission, this tracking code appears in the lower right-hand corner of the scan). The document then was processed through the comment analysis and response system for inclusion in the CRD. A total of 6,543 comment documents were submitted by various organizations and individuals. Several comment documents addressed the Stockpile Stewardship and Management PEIS and Pantex EIS. Copies of these documents were forwarded to those programs for inclusion in the corresponding CRDs. These comments were not addressed in the Storage and Disposition CRD.

¹ In order to ensure that all comments were accurately recorded by the notetakers, transcripts of the proceedings of each meeting were taken. These transcripts are not included in the Storage and Disposition CRD, but have been archived in the Administrative Record for the PEIS.



3252/S&D

Figure 1.1-1. Dates and Locations of Public Meetings.

Table 1.1-1. Meeting Attendance and Comments

Public Meetings	Attendance	Comments
Denver, CO	39	33
Las Vegas, NV	71	40
Oak Ridge, TN	84	12
Richland, WA	107	24
Idaho Falls, ID	75	34
Washington, DC	132	35
Amarillo, TX	102	17
North Augusta, SC	124	55
Total	734	250

Table 1.1-2. Document and Comment Submission Overview

Method of Submission	Documents Received	Comments
Hand-ins at Public Meetings	61	182
Mail-in	159	922
Campaign Documents (letters, postcards, hand-ins)	6,203	6,829
Fax	58	410
Telephone	54	75
Electronic Bulletin Board	8	24
Total	6,543	8,442

1.2 ORGANIZATION

The CRD has been organized into the following sections:

- Chapter 1 describes the comment analysis and response process.
- Chapter 2 presents the changes made to the Storage and Disposition Draft PEIS.
- Chapter 3 presents the scanned images of original documents received during the public comment period. These images are marked with sidebars denoting the identified comments, and the responses that correspond to those comments.

Tables are provided at the end of this chapter to assist readers in locating comments regarding the Storage and Disposition Draft PEIS. Comments were identified and categorized by issue (for example, Policy/Purpose and Need/Scope) and assigned a six-digit issue bin number. An issue bin is the term used for a general topic under which to identify like comments for proper response. Table 1.2-1 lists the issue categories and corresponding issue bin numbers. Issue bins are divided into three separate categories defined as Level 1, Level 2, and Level 3. Level 1 issue bins include the various Fissile Materials Disposition Program topics included in the Storage and Disposition Draft PEIS. Level 2 issue bins represent a subdivision of the Level 1 topics and provide for further definition of the specific topic. Level 2 issue bins include the various storage and disposition alternatives and environmental resource/issue areas evaluated in the Storage and Disposition Draft PEIS. Level 3 issue bins designate the specific site at which the specific topic and/or alternative may occur. The majority of identified comments were responded to on a one-to-one basis. Comments that are similar in content were given the same response.

Table 1.2-2 identifies public meeting attendees and the location of comments and responses from each meeting. Table 1.2-3 lists the individuals, agencies, companies, organizations, and special interest groups that submitted comment documents. Commentors are listed alphabetically by last name or organization name, along with the corresponding page number on which the actual comment document appears. Also listed in this table are the issue bin numbers assigned to the comments found within each document.

For convenience, the information in Table 1.2-3 was then broken out into three separate tables. Table 1.2-4 lists the agencies, companies, organizations, and special interest groups that submitted comments, corresponding page numbers on which the actual comments appear, and assigned issue bin numbers. Table 1.2-5 provides an alphabetical list of individuals who submitted comments, corresponding page numbers on which the actual comments appear, and assigned issue bin numbers. Table 1.2-6 lists those documents considered to be multiple signatory² documents, page numbers on which the actual comments appear, and assigned issue bin numbers.

As discussed in Section 1.1, documents were received by mail, fax, telephone, or electronic bulletin board. In some instances, multiple documents were received from a single commentor. To ensure that all comments submitted by an individual or organization were included in the CRD, multiple documents were treated simultaneously. If, during the review, variations in the documents were identified, the documents were treated separately. If the documents were identical (presenting verbatim comments), only one of the documents was reviewed and scanned for inclusion in the CRD. Commentors wishing to view comments similar in content should refer to Table 1.2-7, which lists the issue bins in which comments were grouped and the page numbers where the comments are located. Multiple page numbers indicate several comments on the same issue. In addition, Tables 1.2-8 through 1.2-14 list commentors who submitted documents that were classified as postcard or letter campaigns. The postcards and letters were part of campaigns conducted by various organizations and special interest groups to express either support of or opposition to the Fissile Materials Disposition Program. Although many postcards and letters were received for these campaigns, only one scanned image is shown in Chapter 3 for each campaign.

² A multiple signatory document is a document that has been signed by more than two individuals.

Table 1.2-1. Issue Bins

Level 1		Level 2		Level 3	
01	Policy/Purpose and Need/Scope	.00	General	.00	All Comments
		.01	Storage		
		.02	Disposition		
		.03	International		
		.04	Definition of Alternatives/ Selection of Alternatives		
		.05	Screening Process		
		.06	Domestic Policy		
02	Storage	.00	General	.01	Hanford
		.01	No Action	.02	NTS
		.02	Multiple Sites	.03	INEL
		.03	Consolidate	.04	Pantex
		.04	Collocate	.05	ORR
		.05	Siting/Regulatory	.06	SRS
				.07	RFETS
				.08	Other
03	Disposition (common activities)	.00	General	.01	Hanford
		.01	Pit Disassembly/Conversion	.02	NTS
		.02	Plutonium Conversion	.03	INEL
		.03	Siting/Regulatory	.04	Pantex
				.05	ORR
				.06	SRS
				.07	RFETS
		.08	Other		
04	Disposition (borehole)	.00	General	.00	All Comments
		.01	Direct		
		.02	Immobilized		
		.03	Siting		
		.04	Regulatory		
05	Disposition (immobilization)	.00	General	.01	Hanford
		.01	Vitrification	.02	NTS
		.02	Ceramic	.03	INEL
		.03	Electrometallurgical	.04	Pantex
		.04	Siting/Regulatory	.05	ORR
				.06	SRS
				.07	RFETS
		.08	Other		
06	Disposition (reactors)	.00	General	.01	Hanford
		.01	MOX Fuel Fabrication	.02	NTS
		.02	Existing Commercial	.03	INEL
		.03	Partially Completed	.04	Pantex

Table 1.2-1. Issue Bins—Continued

Level 1		Level 2		Level 3	
		.04	Evolutionary	.05	ORR
		.05	CANDU	.06	SRS
		.06	Siting/Regulatory	.07	RFETS
				.08	Other
				.09	Generic
				.10	Global Commons
07	Cost/Schedule	.00	General	.00	All Comments
		.01	Facility/Technology		
		.02	Comparison of Costs		
		.03	Russia		
		.04	Canada		
08	NEPA Process	.00	General	.00	All Comments
		.01	Comment Period	.01	Opinions
		.02	Public Participation		
		.03	Decision Process/ROD		
09	Environmental Resources	.00	General	.01	Hanford
		.01	Land	.02	NTS
		.02	Site Infrastructure	.03	INEL
		.03	Air and Noise	.04	Pantex
		.04	Water	.05	ORR
		.05	Geology and Soils	.06	SRS
		.06	Biological	.07	RFETS
		.07	Cultural	.08	Other
		.08	Socioeconomic		
		.09	Public Occupational Health and Safety—Radiological Impacts and Facility Accidents		
		.10	Public Occupational Health and Safety—Hazardous Chemical Impacts		
		.11	Waste Management		
		.12	Environmental Justice		
10	Transportation	.00	General	.00	All Comments
		.01	Emergency Response		
		.02	Accident Analysis		
		.03	Classified Appendix		
11	Relationship to Other Actions	.00	General	.01	Hanford
		.01	NEPA	.02	NTS
				.03	INEL
				.04	Pantex

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Table 1.2-1. Issue Bins—Continued

Level 1		Level 2		Level 3	
				.05	ORR
				.06	SRS
				.07	RFETS
				.08	Other
12	Ultimate Disposal	.00	General	.00	All Comments
		.01	HLWR (Yucca Mtn)		
		.02	WIPP		
		.03	Other Wastes		
13	Security, Including Terrorism	.00	All Comments	.00	All Comments
14	Other Technology Issues	.00	General	.00	All Comments
15	Not Applicable Comments	.00	All Comments	.00	All Comments
16	Editorial Comments	.00	All Comments	.00	All Comments

Table 1.2-2. Index of Attendance at Public Meetings

Public Meeting Attendees	Document Page No.
March 26, 1996—Denver, Colorado	3-722 to 3-728
<i>Afternoon Session</i>	
Aguilar, Christopher, EPA, Denver, CO	
Atwater, John, Golden CO	
Auble, Luanne, Northwest Metro Chamber of Commerce, Arvada, CO	
Fager, Cal, Arvada, CO	
Groves, Linda, Tracy, CA	
Hardin, Sharon, SSOC, Westminster, CO	
Hudson, Miller, Denver, CO	
Korkia, Ken, Rocky Flats Citizens Advisory Board, Westminster, CO	
Lee, Pete, DOE/Rocky Flats Environmental Technology Site, Golden, CO	
Navarro, David M., USWA Local 8031, Westminster, CO	
Rippetoe, Joe, Arvada, CO	
Romanelli, Richard, Washington Public Power Supply System, Richland, WA	
Ross-Lee, Mary Jane, DOE/Rocky Flats Environmental Technology Site, Golden, CO	
Sedgely, Jeanie, Rocky Flats Local Imports Initiative, Arvada, CO	
Smith, Frank, Boulder, CO	
Stone, James, Rocky Flats Cleanup Commission, Lakewood, CO	
Werth, Kenneth, Rocky Flats Citizens Advisory Board, Westminster, CO	
<i>Evening Session</i>	
Anderson, Jerry, Rocky Flats, Westminster, CO	
Brinsfield, Wes, Tenera, San Francisco, CA	
Ciarlo, James, Boulder, CO	
Consani, Keith, Broomfield, CO	
Crouch, Jeanne, ETCI, Inc., Denver, CO	
Etchart, Patrick, DOE/Rocky Flats Environmental Technology Site, Golden, CO	
Groves, Linda, Tracy, CA	
Hatfield, Scott, Tau Beta Pi, Boulder, CO	
Hingerty, Arthur M., University of Colorado; Dept. of Political Science, Boulder, CO	
Holm, Victor, Lakewood, CO	
Hudson, Miller, Denver, CO	
Johnson, Karen, Littleton, CO	
Kine, Peter, Department of Energy/OIG, Lakewood, CO	
North, Karen, Project Phoenix (SETI), Boulder, CO	
Parker, Douglas A., Arvada, CO	
Parkhurst, Lyman, Arvada, CO	
Ryan, Kay, Special Projects, Boulder, CO	
Smits, Jill, ERA Lab, Arvada, CO	
Smits, Dennis, U.S. Geological Survey, Denver, CO	
Thompson, Gary H., RFETS/Kaiser Hills Rocky Flats Citizens Advisory Board, Northglenn, CO	
Transue, Martin, Rocky Flats (K-H), Arvada, CO	
Trenary, Alan, Broomfield, CO	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
March 28, 1996—Las Vegas, Nevada	3-742 to 3-751
<i>Evening Session</i>	
Ace, Mary H., Washington Public Power Supply System, Richland, WA	
Armstrong, Dennis, Department of Energy/WMD, Las Vegas, NV	
Barre, Richard, Bechtel Nevada, Las Vegas, NV	
Battaglia, Carmen, Bechtel Nevada, Las Vegas, NV	
Bechtel, Dennis, Clark Company, Nuclear Waste Division, Las Vegas, NV	
Blodgett, Jim, Department of Energy/NV, Las Vegas, NV	
Borden, John, Las Vegas, NV	
Bradfield, Felicia, Tetra Tech, Las Vegas, NV	
Calfin, Kathleen, UNLV	
Campbell, Bruce, Mason & Hanger, Amarillo, TX	
Chakrabarti, Andy, Woodward Clyde, Washington, DC	
Chrisman, Robert, Las Vegas, NV	
Cotter, Joy, Bechtel Nevada, Las Vegas, NV	
Devlin, Sally, Pahrump, NV	
Dillaplain, Michael, Nevada Test Site Community Advisory Board, Henderson, NV	
Edwards, Thomas O., Bechtel Nevada, Las Vegas, NV	
Flangas, William, Las Vegas, NV	
Foster, Will, Las Vegas, NV	
Founds, Nanette, Department of Energy/Albuquerque Operations Office	
Frishman, Steve, State of Nevada NWPO, Carson City, NV	
Harney, Corbin, Shundahai Network, Batre Mountain, NV	
Harrison, Diane, Department of Energy	
Henderson, James, Bechtel Nevada, Las Vegas, NV	
Hudlow, Grant, Pahrump, NV	
Irwin, Hank, Sandia National Laboratory, Livermore, CA	
Knutson, Reinard, Nuclear Abolition Summit, Las Vegas, NV	
Kok, Kenneth, LATA, Las Vegas, NV	
Manning, Mary, Las Vegas Sun Newspaper, Las Vegas, NV	
McGee, Curt, Bechtel Nevada, Las Vegas, NV	
McGowan, Tom, Las Vegas, NV	
Palmer, Gary, Defense Programs	
Riccardi, Michael, Las Vegas, NV	
Smith, Robert, SAIC, Las Vegas, NV	
Smith, D.	
Stewart, Carrie, PAI, N. Las Vegas, NV	
Stewart, Lana, Bechtel Nevada, Las Vegas, NV	
Szymanski, Jerry, TRAC-NA, Las Vegas, NV	
Talbot, Edward B., Sandia National Laboratory, Livermore, CA	
Treichel, Judy, Nevada Nuclear Waste Task Force, Las Vegas, NV	
Tullman, Ed, Department of Energy	
Walker, John, State of Nevada NWPO, Carson City, NV	
Zavattado, Peter, Las Vegas, NV	
Zimmerman, Janene, Las Vegas, NV	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
March 29, 1996—Las Vegas, Nevada	3-742 to 3-751
<i>Morning Session</i>	
Allen Gylan C., Department of Energy/NV, Las Vegas, NV	
Bourn, Michael, Amarillo Economic Development Corporation, Amarillo, TX	
Brown, Chris, Campaign for Nevada's Future, Las Vegas, NV	
Burton, Thomas, Nevada Indian Environmental Coalition, Reno, NV	
Cebe, Jim, HPD/Department of Energy/NV, Las Vegas, NV	
Devlin, Sally, Pahrump, NV	
DiSanza, E. Frank, Department of Energy/EM	
duBartolo, Russell, Clark Company, Nuclear Waste Division, Las Vegas, NV	
Flangas, William, Las Vegas, NV	
Freeland, William, YMSCO, Las Vegas, NV	
Glines, Chad, Department of Energy/NV, Las Vegas, NV	
Goin, Patty, North Las Vegas, NV	
Golden, Bobby, Department of Energy/NV/EPD, Las Vegas, NV	
Gurka, Becky, Las Vegas, NV	
Hayes, Dennis, Bechtel Nevada, Las Vegas, NV	
Hudlow, Grant, Pahrump, NV	
Iden, Barbara, Las Vegas, NV	
Irwin, Hank, Sandia National Laboratory, Livermore, CA	
Leskover, Christy, Bechtel Nevada, North Las Vegas, NV	
Nielsen, Richard, Citizen Alert, Las Vegas, NV	
Prins, Gretchen, Las Vegas, NV	
Ruggieri, Joseph, Henderson, NV	
Schutte, Dale, Nevada Test Site Citizens Advisory Board, Pahrump, NV	
Seddon, William, AECL Technologies, Inc., Rockville, MD	
Talbot, Edward B., Sandia National Laboratory, Livermore, CA	
Vasconi, William, International Brotherhood of Electrical Workers, Las Vegas, NV	
White, Roy, Bechtel Nevada, Las Vegas, NV	
Wilcox, Debbie, Las Vegas, NV	
April 2, 1996—Oak Ridge, Tennessee	3-752 to 3-755
<i>Morning Session</i>	
Benchit, Robert B.	
Bernander, Ken, CNS	
Bevard, Bruce, Oak Ridge National Laboratory, Oak Ridge, TN	
Boles, Ronald, OCAW Local 3288, Knoxville, TN	
Brandon, Norman, Nuclear Fuel Services, Inc., Erwin, TN	
Brooks, Alfred, Oak Ridge, TN	
Cagle, Gordon, Lockheed Martin Energy Systems (Y-12), Oak Ridge, TN	
Campbell, Bruce, Mason & Hanger, Amarillo, TX	
Carleton, Teresa, WCS, Inc., Oak Ridge, TN	
Chardos, Jim, TVA, Hollywood, AL	
Chesney, Bill, Rogers Group, Inc., Oak Ridge, TN	
Devine, Terry, Frankfurt, KY	
Deweese, Adam, TDEC/Department of Energy—Oversight Division, Oak Ridge, TN	
Franklin, James, Oak Ridge, TN	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
April 2, 1996—Oak Ridge, Tennessee (continued)	3-752 to 3-755
Gallaher, Rickey, OCAW Local 3288, Kingston, TN	
Garber, Sandra L., Knoxville, TN	
Hearron, Stan	
Hickman, H. D., Citizens for National Security	
Holman, Garry S., Los Alamos National Laboratory, Livermore, CA	
Huffman, Clark, HEI, Oak Ridge, TN	
Hunter, Hayes, Knoxville, TN	
Hunter, Joyce, Knoxville, TN	
Hutchison, Ralph, OREPA, Oak Ridge, TN	
Juba, Robert (Bob), Amarillo Economic Development Corporation, Amarillo, TX	
Kite, Harvey T., Oak Ridge, TN	
Larkin, David, Washington Public Power Supply System, Richland, WA	
Maienschein, F.	
McCullough, William, Oak Ridge, TN	
McDuffie, H. Fritz, Oak Ridge National Laboratory, Oak Ridge, TN	
McMillan, G. Jarvis, Presbyterian Church, USA, Hendersonville, NC	
Michener, L. R., ERDA, Kingston, TN	
Miles, Ricky C., TVA-Bellefonte Nuclear Plant, Hollywood, AL	
Miskelley, Ray, Department of Energy/ORO, Oak Ridge, TN	
Monroe, William E., TDEC/DOE-Oversight Division, Oak Ridge, TN	
Nisley, Steve S., TDEC/DOE-Oversight Division, Oak Ridge, TN	
Okulczyk, G. M., TDEC/DOE-Oversight Division, Oak Ridge, TN	
Philippone, Richard L., Oak Ridge, TN	
Pruett, Roy, East Tennessee Economic Council	
Ragan, Guy, SAIC, Oak Ridge, TN	
Rhoton, Amy, Lockheed Martin Energy Systems	
Rice, Dean, Senator Fred Thompson, Knoxville, TN	
Robinson, Charlotte L., LOC-CAP, Oak Ridge, TN	
Schroeder, Charles, Commonwealth Edison Co., Downers Grove, IL	
Sigal, Lorene, Oak Ridge, TN	
Speller, Wayne, Lockheed Martin Energy Systems/ER, Oak Ridge, TN	
Spellman, Donald, Oak Ridge National Laboratory, Oak Ridge, TN	
Stethen, Steve, Lockwood Greene Tech.	
Taylor, Ellen, Los Alamos National Laboratory, Germantown, MD	
Trauger, Donald B., Oak Ridge, TN	
Valentine, Ken	
Wamp, Zach, United States House of Representatives, Washington, DC	
Webb, Jennifer L., Lockheed Martin Energy Systems/EMD, Oak Ridge, TN	
Wilcox, Jr., William J.	
Wills, Harry, Oak Ridge, TN	
Yard, Charles R., TDEC/Department of Energy-Oversight Division, Oak Ridge, TN	
<i>Evening Session</i>	
Agle, Angela C., Oak Ridge, TN	
Alban, Alexander, Lockheed Martin Energy Systems Central Engineering, Oak Ridge, TN	
Bevard, Bruce, Oak Ridge National Laboratory, Oak Ridge, TN	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
March 28, 1996—Oak Ridge, Tennessee (continued)	3-752 to 3-755
Burdett, Robert B.	
Cagle, Gordon, Lockheed Martin Energy Systems (Y-12), Oak Ridge, TN	
Collier, Thomas, Oak Ridge, TN	
Dillow, Weldon, Clinton, TN	
Gallaher, Rickey, OCAW Local 3288, Kingston, TN	
Gunning, John E., Bechtel Environmental, Oak Ridge, TN	
Holman, Garry S., Los Alamos National Laboratory, Livermore, CA	
Juba, Robert (Bob), Amarillo Economic Development Corporation, Amarillo, TX	
Lanford, Jeff, Horne Engineering, Oak Ridge, TN	
Lemons, Thomas, Knoxville, TN	
Miles, Ricky C., TVA-Bellefonte Nuclear Plant, Hollywood, AL	
Morrow, Margaret K., Lockheed Martin Energy Systems, Oak Ridge, TN	
Moses, David, American Nuclear Society, Oak Ridge, TN	
Peelle, Robert, Oak Ridge, TN	
Philippone, Richard L., Oak Ridge, TN	
Red, Stanley, Oak Ridge Planning Commission, Oak Ridge, TN	
Reid, Sandra, Oak Ridge, TN	
Sanford, Steven, Nashville, TN	
Schroeder, Charles, Commonwealth Edison Company, Downers Grove, IL	
Scott, Frank, ICWU, Clinton, TN	
Sigal, Lorene, Oak Ridge, TN	
Smith, Ray, Facilities Management Organization (Y-12), Oak Ridge, TN	
Stout, James D., Lockheed Martin Energy Systems (Y-12), Oak Ridge, TN	
Taylor, Ellen, Los Alamos National Laboratory, Germantown, MD	
Tilton, Janis, Nashville Peace Action	
Venratecan, Paona, TDEC/Department of Energy-Oversight Division, Oak Ridge, TN	
April 11, 1996—Richland, Washington	3-756 to 3-776
<i>Afternoon Session</i>	
Ace, Mary, Washington Public Power Supply System, Richland, WA	
Baker, Jack W., Washington Public Power Supply System, Richland, WA	
Belsey, Dick, Hanford Advisory Board, Portland, OR	
Blair, Walter, Westinghouse Hanford Corporation/Hanford Advisory Board, Richland, WA	
Brown, Pam, City of Richland, Richland, WA	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Cabreau, Louis P., Pasco, WA	
Campbell, K. Perry, Dames & Moore, Richland, WA	
Carosino, Bob, Department of Energy/Richland, Richland, WA	
Ciminera, Michael, Dames & Moore, Richland, WA	
Claudson, Thomas, Science and Engineering Services, Inc., Richland, WA	
Clayton, Danette, Pasco, WA	
Clayton, Nathan, Pasco, WA	
Cook, John, Dames & Moore, Richland, WA	
Davenport, Les, Richland, WA	
Fraley, David W., Washington Public Power Supply System, Richland, WA	
Gerber, Michele, Westinghouse Hanford Corporation, Richland, WA	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
April 11, 1996—Richland, Washington (continued)	3-756 to 3-776
Gority, Scott W., Pacific Northwest National Laboratory, Richland, WA	
Gueuther, Charles, Fluor Daniel	
Guzzetta, David J., Dames & Moore, Richland, WA	
Haass, Carolyn, Department of Energy/Richland, Richland, WA	
Heacock, Harold, TRIDEC (Tri City Economic Development Council), Kennewick, WA	
Heaston, Suzanne, U.S. Senator Slade Gorton, Kennewick, WA	
Heiks, Ron, Seimens Power Corporation, Bellevue, WA	
Heineman, Robert E., Battelle-Northwest, Richland, WA	
Hildreth, Norton T., Richland, WA	
Hoyt, Richard C., Westinghouse Hanford Corporation, Richland, WA	
King, Joe, City of Richland, Richland, WA	
Klos, D. Bruce, Westinghouse Hanford Corporation, Richland, WA	
Larkin, David, Washington Public Power Supply System, Richland, WA	
Lawrence, Michael J., Pajarito Scientific Corporation, Los Alamos, NM	
MacQuarrie, Evelyn M., MACTEC, Richland, WA	
McMaumau, Don	
Miller, Vera, Dames & Moore, Richland, WA	
Mitchell, Sue, Numatec, Inc., Richland, WA	
Mitchell, Bernice, Richland, WA	
Morgan, Jim, Richland, WA	
Moyer, Robert, COGEMA, Inc., Poulsbo, WA	
Munn, Wanda, Richland, WA	
Naber, James, SAIC, Bellevue, WA	
Ogg, Daniel G., Defense Nuclear Facility Safety Board, Richland, WA	
Robinson, Ray, Ray K. Robinson, Inc., Richland, WA	
Rodriguez, Annabelle, Department of Energy/Richland, Richland, WA	
Sanderson, William, Westinghouse Hanford Corporation, Richland, WA	
Steffen, Jim, Westinghouse Hanford Corporation, Kennewick, WA	
Stephens, Karl, KEPR-TV, Pasco, WA	
Szempruch, Rich, Kennewick, WA	
Takaro, Tim, University of Washington, Seattle, WA	
Venetz, Ted, Westinghouse Hanford Corporation, Richland, WA	
Volpentest, Sam, TRIDEC (Tri City Economic Development Council), Kennewick, WA	
Watts, Jim L., Oil, Chemical & Atomic Workers Int. Union, Local 1-369, Richland, WA	
Wilde, Richard, Rust Federal Services, Richland, WA	
Williamson, Craig, Richland Fire & Emergency Services, Richland, WA	
Yerxa, Jon, Department of Energy/Richland, Richland, WA	
<i>Evening Session</i>	
Absher, Ken	
Absher, Jan, Department of Energy/Richland	
Baker, Tom, Westinghouse Hanford Corporation, Richland, WA	
Bliss, Ronald, Westinghouse Hanford Corporation, Kennewick, WA	
Bowman, Leo, Richland Chamber of Commerce, Richland, WA	
Brown, Pam, City of Richland, Richland, WA	
Carosino, Bob, Department of Energy/Richland, Richland, WA	

Table 1.2-2. Index of Attendance at Public Meetings—Continued

Public Meeting Attendees	Document Page No.
April 11, 1996—Richland, Washington (continued)	3-756 to 3-776
Cox, Grady, Kennewick, WA	
Davis, Robert, Pasco, WA	
Dobbin, Ken, Westinghouse Hanford Corporation, Richland, WA	
Domina, Kirk, Richland, WA	
Dunigan, Paul, Richland, WA	
Ferns, Tom, Kennewick, WA	
Floyd, Ben, Benton County, Prosser, WA	
Foreman, Bob D., Richland, WA	
Gerber, Michele, Westinghouse Hanford Corporation, Richland, WA	
Haler, Larry, City of Richland, Richland, WA	
Hammond, R.S., Richland, WA	
Hankins, Shirley, Washington State Legislator, Richland, WA	
Hodje, Ralph B., Oil, Chemical & Atomic Workers Int. Union, Local 1-369, Pasco, WA	
Holmes, Diane, Fluor Daniel, Richland, WA	
Hoyt, Richard C., Westinghouse Hanford Corporation, Richland, WA	
Hunter, John, Parsons, Richland, WA	
Janett, Joy, Kennewick, WA	
Keenan, Richard, Raytheon, Richland, WA	
King, Jeffrey P., Richland, WA	
Klute, Terrence A., Richland, WA	
Kyriazis, George, City of Kennewick, Kennewick, WA	
Larkin, David, Washington Public Power Supply System, Richland, WA	
Lewis, Jim, DOE-Bonneville Power Administration, Richland, WA	
Martell, Lance, Oil, Chemical & Atomic Workers Int. Union, Local 1-369, West Richland, WA	
McCalmant, Grant L., Kennewick, WA	
Mecca, Sharon, Richland, WA	
Mix, Teresa Lee, Richland, WA	
Nelson, Ronald, Kingston, WA	
Parks, Robert J., Kennewick, WA	
Power, Max, Washington State Department of Ecology, Olympia, WA	
Randolph, Karen, Department of Energy/Richland	
Rogas, Phil, Littleton, CO	
Rogers, Gordon, Pasco, WA	
Salinas, Eustole, Richland, WA	
Segna, Don, Advanced Nuclear & Medical Systems, Richland, WA	
Steffen, Jim, Westinghouse Hanford Corporation, Kennewick, WA	
Strawn, Sandi, Benton County, Kennewick, WA	
Szempruch, Rich, Kennewick, WA	
Takaro, Tim, University of Washington, Seattle, WA	
Tebb, G. Thomas, Washington State Department of Energy, Kennewick, WA	
Tupper, George, Richland, WA	
Van Reenen, Timothy, Oil, Chemical & Atomic Workers Int. Union, Richland, WA	
Vultey, Aleci, Oil, Chemical & Atomic Workers Int. Union, Local 1-369, Richland, WA	
Waltar, Alan, Richland, WA	

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Abbott, David, Lockheed Idaho Technology Company, Idaho Falls, ID	
Anderson, A.D., Department of Energy—Idaho Operations Office, Idaho Falls, ID	
Beck, Jim, Lockheed Idaho Technology Company, Idaho Falls, ID	
Bendixsen, C. Lee, Lockheed Martin Idaho Technologies, Blackfoot, ID	
Benedict, Bob, Argonne National Laboratory, Idaho Falls, ID	
Brown, Lloyd C., Lockheed Martin Idaho Technologies, Idaho Falls, ID	
Burns, Casey, Idaho Falls, ID	
Calvin, Elisha, Idaho Falls, ID	
Commander, John, Idaho Section ANS, Idaho Falls, ID	
Darnell, G. Ross, Idaho Falls, ID	
Dold, Ann, INEL Oversight/State of Idaho, Idaho Falls, ID	
Downs, Jerry, State of Idaho, Idaho Falls, ID	
Freund, George A., Idaho Falls, ID	
Hain, Kathleen, Department of Energy—Idaho Operations Office, Idaho Falls, ID	
Hamilton, Ellie, Chubbuck, ID	
Hardy, Marsha, Idaho Falls, ID	
Hinckley, Jana K., Eastern Idaho Technical College, Idaho Falls, ID	
Huebner, Martin, Idaho Falls, ID	
Hughes, Ernie, Department of Energy—Chicago Operations Office, Chicago, IL	
Jarrell, Christopher, Shelley, ID	
Jobe, Lowell A., Idaho Falls, ID	
Kidwell, Jennifer, Idaho Falls, ID	
Larkin, David, Washington Public Power Supply System, Richland, WA	
Lewis-Kido, Gail, Lockheed Idaho Technology Company, Idaho Falls, ID	
Loomis, Brandon, Post Register, Idaho Falls, ID	
Lussie, William G., Lockheed Idaho Technology Company, Idaho Falls, ID	
Lyon, Larry, Eastern Idaho Technical College, Idaho Falls, ID	
McEligot, Donald M., Idaho National Engineering Laboratory, Idaho Falls, ID	
McIntire, Thomas D., Lockheed Martin Idaho Technologies, Idaho Falls, ID	
Middleton, Cathy, BNFL Inc., Idaho Falls, ID	
Moyer, Robert, COGEMA, Inc., Poulsbo, WA	
Myers, Joy, Dubois, ID	
Pugmire, Paul, Argonne National Laboratory, Idaho Falls, ID	
Richardson, Andrew, Blackfoot, ID	
Ryskamp, John M., Idaho National Engineering Laboratory, Idaho Falls, ID	
Scherbinske, Peggy, Blackfoot, ID	
Smith, Michael, Eastern Idaho Technical College, Idaho Falls, ID	
Tanner, John, Idaho Falls, ID	
Twitchell, Roger, Department of Energy—Idaho Operations Office, Rigby, ID	
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Ward, Sonne, Future Free Transportation; Nova Plasma Technologies Inc., Hamer, ID	

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Herring, Steve, Idaho ANS, Idaho Falls, ID	
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Hughes, Ernie, Department of Energy—Chicago Operations Office, Chicago, IL	
Hurt, William L., National Spent Fuel Program, Idaho Falls, ID	
Kahn, Steve, Idaho Falls, ID	
Kahn, Dave, Idaho Falls, ID	
Larkin, David, Washington Public Power Supply System, Richland, WA	
Larsen, R. G., Idaho Falls, ID	
Merritt, Alan, Idaho Falls, ID	
Middleton, Cathy, BNFL Inc., Idaho Falls, ID	
O'Halleran, Thomas, Lockheed Idaho Technology Company, Idaho Falls, ID	
Pugmire, Paul, Argonne National Laboratory, Idaho Falls, ID	
Rose, David, Idaho Falls, ID	
Sterbentz, Jim, Lockheed Martin Idaho Technologies, Idaho Falls, ID	
Tanner, John, Idaho Falls, ID	
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Bengelsdorf, Harold D., Bethesda, MD	
Bergman, Heather, Numark Assoc. Inc., Washington, DC	
Blakley, John, Jr., Mason & Hanger/Pantex, Amarillo, TX	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Campbell, Bruce, Mason & Hanger/Pantex, Amarillo, TX	
Chase, Steve, Department of Energy	
Clements, Tom, Greenpeace International, Washington, DC	
Curtiss, James R., Winston & Strawn, Washington, DC	
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Dollay, Steven, Nuclear Control Institute, Washington, DC	
Dove, Gordon, Systematic Management Services, Germantown, MD	
Draper, Robert L., Winston & Strawn, Washington, DC	
Ehrlich, Edward, General Electric-Nuclear Energy, San Jose, CA	
Fletcher, Michael, AECL Technologies Inc., Rockville, MD	
Guais, Jean-Claude, WSMS-ISA Inc., France	
Hahn, Dick, Department of Energy/DP-22	
Hara, Akihiko, Federation of Electric Power Companies of Japan, Washington, DC	
Heppner, Paul G., Sandia National Laboratory, Arlington, VA	
Hite, Ron, Babcock & Wilcox Company, Lynchburg, VA	
Hofer, Gregory, Raytheon Engineers and Constructors, New York, NY	
Horner, Daniel, Nuclear Control Institute, Washington, DC	
Hughes, Allen, Woodbridge, VA	
Hurt, Robert Davis, DNFSB, Washington, DC	
Irwin, Hank, Sandia National Laboratory, Livermore, CA	
Jancik, Lori, Federation of Electric Power Companies of Japan, Washington, DC	
Juba, Robert, Amarillo Economic Development Corporation, Amarillo, TX	
Krishna, Paul M., TRW Inc., Washington, DC	
Lyons, Blythe, Energy Resources International, Washington, DC	
Madison, Robin M., Bechtel National, Inc., Washington, DC	
Mann, Melissa, Edlow International Company, Washington, DC	
McClary, Richard, Department of Energy/NE-60	
McElroy, Bernie, AT/LMES, Washington, DC	
McMillen, Matthew, Energetics, Washington, DC	
Meigs, Marilyn F., BNFL, Inc., Washington, DC	
Metz, Patricia, Nuclear Energy Institute, Washington, DC	
Miller, Donald, Louisiana Energy Services, Washington, DC	
Mills, Loring, Stevensville, MD	
Moglen, Damon, Greenpeace International, Washington, DC	
Monroe, Robert, Bechtel National, Inc., Washington, DC	
Naughton, William F., Commonwealth Edison Co., Downers Grove, IL	
Newton, John W., Department of Energy, Germantown, MD	
Sazawal, ViJay, COGEMA/NUMATEC, Bethesda, MD	
Seliger, Kel, City of Amarillo, Amarillo, TX	
Shallo, Frank A., COGEMA, Inc., Bethesda, MD	
Sloan, David, Nukem, Inc., Stamford, CT	
Smith, Stephen, Exchange Monitor Publications, Washington, DC	
Todd, Doug, Battelle, Washington, DC	
Wells, Nikita, Defence Conversion Technology, Inc., Washington, DC	
Williams, Gary, Argonne National Lab, Washington, DC	
Yeager, Jim, Department of Energy	
Yeysikov, Victor, Defence Conversion Technology, Inc., Bethesda, MD	
Zerm, Ronald W., Mason & Hanger/Pantex, Amarillo, TX	

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Barboza, Derek, Defense Nuclear Facilities Safety Board, Washington, DC	
Barr, R. Paul, Highland, MD	
Blakley, Jr., John, Mason & Hanger/Pantex, Amarillo, TX	
Blumenthal, Anita, Washington Nuclear Corporation, Potomac, MD	
Braitsford, Beatrice, Snake River Alliance, Pocatello, ID	
Bryson, Maurice, Department of Energy/NN-42 (LANL), Rockville, MD	
Buchanan, Ronald, Lynchburg, VA	
Buer, David, Nevada Desert Experience, Las Vegas, NV	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Campbell, Bruce, Mason & Hanger/Pantex, Amarillo, TX	
Carde, Margaret, Concerned Citizens for Nuclear Safety, Santa Fe, NM	
Cash, Cathy, Nuclear Energy Overview, Washington, DC	
Chander, Jaysi, Physicians for Social Responsibility/MPN, San Francisco, CA	
Chang, Tom, Department of Energy/Oakland	
Chung, Justin, U.S. Committee for START II, Washington, DC	
Coaham, Jay, Concerned Citizens for Nuclear Safety, Santa Fe, NM	
Coffin, Patricia, Department of Energy/DP-45, Washington, DC	
Cullen, Genevieve, Ray F. Weston, Inc., Washington, DC	
Donning, Art, Department of Energy/DP-15, Washington, DC	
Draper, Robert L., Esq., Winston & Strawn, Washington, DC	
Ehrlich, Edward, General Electric—Nuclear Energy, San Jose, CA	
Epstein, Arnold, Department of Energy/DP, Germantown, MD	
Farkham, Pani, Bliss & Associates, Washington, DC	
Faubert, Cheryl, Energy Communities Alliance, Arlington, VA	
Feinrogh, Herb, AECL Technologies Inc., Rockville, MD	
Forsythe, Jan, Lockheed Martin/Idaho, Arlington, VA	
Gattis, Beverly, STAND, Amarillo, TX	
Gay, Corey, Institute for Science & International Security, Washington, DC	
Greenstein, Michele, Physicians for Social Responsibility, Washington, DC	
Gudgell, J. Dallas, Snake River Alliance, Boise, ID	
Hanson, Glen, Battelle, Albuquerque, NM	
Hayes, David, Defense Nuclear Facilities Safety Board, Washington, DC	
Hensl, David, Snake River Alliance, Victor, ID	
Hinds, Warren, Department of Energy/EH-42	
Hite, Ron, Babcock & Wilcox Company, Lynchburg, VA	
Hogan, William, Lawrence Livermore National Laboratory, Livermore, CA	
Holland, Mary, Energy Communities Alliance, Arlington, VA	
Johnson, Frank, LIUNA, Washington, DC	
Juba, Robert, Amarillo Economic Development Corporation, Amarillo, TX	
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Massey, Raymon, SRA Technologies, Fairfax, VA	
Metz, Patricia, Nuclear Energy Institute, Washington, DC	
Nathan, Jim, Lawrence Livermore National Laboratory, Livermore, CA	
Negus, Paige, General Electric-Nuclear Energy, Washington, DC	
Paisner, Jeffrey, Lawrence Livermore National Laboratory, Livermore, CA	
Parikh, Lina, Edlow International Company, Washington, DC	
Ras, Sophie, Washington International Energy Group, Washington, DC	
Rauch, Thomas M., American Friends Service Committee, Denver, CO	
Sauvageau, Marc, Palaverti Nuclear Generating Station, Tonopah, AZ	
Savage, Carter, Jupiter Corporation, Wheaton, MD	
Schaeffer, Robert A., Military Production Network, Belmont, MA	
Seliger, Kel, City of Amarillo, Amarillo, TX	
Setera, Robert, LIUNA, Washington, DC	
Shapar, Howard, Shaw, Pittman, Washington, DC	
Shearer, Velma M., Neighbors in Need, Englewood, OH	
Shultz, Gaylea, Morgan, Lewis and Bockius, Washington, DC	
Slater, Alice, Economist Allied for Arms Deduction, New York, NY	
Teclair, Carolyn, Department of Energy/PO-91	
Van Doren, Charles, OGDEN Corporation, Fairfax, VA	
Videgreer, John, The International Center, Washington, DC	
White, William, Defense Nuclear Facilities Safety Board, Washington, DC	
Wilkinson, Cory, Lawrence Livermore National Laboratory, Germantown, MD	
Woltsthal, John, Department of Energy/NN-42	
Worthington, Jim, Sheetmetal Workers International, Stanwood, WA	
Wujciak, Steve, VOLPE National Transportation Center, Cambridge, MA	
Yourish, Karen, Weapons Complex Monitor, Washington, DC	
Zavadowski, Richard A., Nuclear Fuel Services, Inc., Washington, DC	
Zerm, Ronald W., Mason & Hanger/Pantex, Amarillo, TX	
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Campbell, Bruce, Mason & Hanger, Amarillo, TX	
Erben, Randall, Panhandle 2000, Austin, TX	
Gage, Belle, Amarillo Chamber of Commerce, Amarillo, TX	
Killebrew, Flavius, West Texas A&M University, Canyon, TX	
Knight, Stacy, Amarillo Chamber of Commerce, Amarillo, TX	
McConnell, James J., Defense Nuclear Facilities Safety Board, Amarillo, TX	
Osborne, Jim, Panhandle, TX	
Osborne, Jeri, Panhandle, TX	
Rosette, Wayne, North Texas Section American Nuclear Society, Glen Rose, TX	
Seewald, William H., STAND/STAR, Amarillo, TX	
Zenor, Becky, Amarillo Chamber of Commerce, Amarillo, TX	

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Battles, Margaret, Amarillo, TX	
Baumgardner, Paul, Analab Environmental Lab/Chemlab Division, Amarillo, TX	
Berman, Herbert S., Mason & Hanger/Pantex, Amarillo, TX	
Bohlander, Merle, Pampa, TX	
Bowes, Ashley, Amarillo National Bank, Amarillo, TX	
Boyle, David, Texas A&M University, College Station, TX	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Burton, Douglas K., Mason & Hanger, Amarillo, TX	
Costa, Rick, TNRCC, Amarillo, TX	
Crenshaw, W. T., Southeastern Public Service Company, Amarillo, TX	
Dewey, Amy, State Senator Teel Bivins' office, Amarillo, TX	
Fike, David, Mason & Hanger, Amarillo, TX	
Floyd, Shirley, Amarillo National Resource Center for Plutonium, Amarillo, TX	
Francis, Shaela, Amarillo, TX	
Franklin, Kenneth W., Mason & Hanger, Amarillo, TX	
Gage, Belle, Amarillo Chamber of Commerce, Amarillo, TX	
Gleghorn, Ginnie, The Perryman Group, Amarillo, TX	
Goebel, Jerry, Elliott/Russell, Amarillo, TX	
Halliday, Thomas, Battelle-Pantex, Amarillo, TX	
Harris, Bill, ANRCP, Amarillo, TX	
Hooten, David, Mason & Hanger, Panhandle, TX	
Juba, Bob, Amarillo Economic Development Corporation, Amarillo, TX	
Keenan, Kevin, Mission Advocacy, Golden, CO	
Kenney, Heidi, Mason & Hanger, Amarillo, TX	
King, Henry, Amarillo, TX	
Knight, Stacy, Amarillo Chamber of Commerce, Amarillo, TX	
Molberg, Gary, Amarillo National Bank, Amarillo, TX	
Nelson, Paul, Texas A&M University, College Station, TX	
Peddicord, Kenneth, Texas A&M University System, College Station, TX	
Rosette, Wayne, North Texas Section American Nuclear Society, Glen Rose, TX	
Ruddy, Karen, Amarillo, TX	
Seewald, William H., STAND/STAR, Amarillo, TX	
Stange, Joe, Boatman's Bank, Amarillo, TX	
Taylor, Belinda G., Amarillo, TX	
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Watts, Ronald, Elliott/Russell, Amarillo, TX	
Zenor, Becky, Amarillo Chamber of Commerce, Amarillo, TX	
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Collins, Shane	
Deavey, Boyd	
Dewey, Amy, State Senator Teel Bivins, Amarillo, TX	
Doss, Charles E.	
Gribert, Janice	
Heim, David, D.L.H. & Associates, Amarillo, TX	
Hess, Shawn, Tetra Tech, Amarillo, TX	
Hicks, Burnis G., Amarillo, TX	
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Hopson, Rich, Mason & Hanger, Canyon, TX	
Hudson, John, Mason & Hanger, Amarillo, TX	
Johns, Lisa	
Kirk, Tim	
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Martillotti, Joseph A., Texas Dept. of Health/Bureau of Radiation Control, Amarillo, TX	
McBride, Jim, Globe-News	
McFadden, Greg, KGNC News, Amarillo, TX	
Miller, Bryan, Amarillo, TX	
Molberg, Gary, Amarillo National Bank, Amarillo, TX	
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Pharr, Marshall, SDS, Amarillo, TX	
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Ruddy, Karen, Amarillo, TX	
Schuster, J. T.	
Sheth, Raj, Battelle-Pantex, Waste Management, Amarillo, TX	
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Sproul, Elizabeth, Amarillo, TX	
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Albenze, Mark, Westinghouse Electric Corporation, Aiken, SC	
Arnold, Ed, Physicians for Social Responsibility/Atlanta, Decatur, GA	
Attardo, Lewis C., SRRDI, Aiken, SC	
Birt, Gretchen, TriCounty Alliance, Barnwell, SC	
Bolen, James, Department of Energy/Savannah River, Aiken, SC	
Booher, Sam, Augusta, GA	
Bridges, Donald N., Aiken, SC	
Bright, Horaze, Spartanburg, SC	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Burris, Roddie A., The Aiken Standard, Aiken, SC	
Cadotte, Bruce, Westinghouse Savannah River Company, Aiken, SC	
Clemmens, John, Stone & Webster Engineering Corporation, Aiken, SC	
Coney, Diana, Citizens for Environmental Justice	
Costikyan, Thomas W., Citizens Advisory Board, SRS, Dataw Island, SC	
Crawford, Todd V., New Ellenton, SC	
Davis, Marion, Teamsters Local Union #509, Bamberg, SC	
Edwards, Dana L., Citizens for Environmental Justice, Savannah, GA	
Ellison, Donald, Westinghouse Savannah River Company, N. Augusta, SC	
Enzi, Nadra	
Frazier, James Lee, Jr., Citizens for Environmental Justice	
Garniewicz, Richard, Westinghouse Savannah River Company, Augusta, GA	
Geddes, R. L., N. Augusta, SC	
Goergen, Charles R., Aiken, SC	
Gore, Kathleen, Exploration Resources, Athens, GA	
Graf, Eugene L., N. Augusta, SC	
Gregory, Johnny, Spartanburg, SC	
Hardeman, Jim, GADNR Environmental Protection Division, Atlanta, GA	
Harris, Krista, Exploration Resources	
Hawkins, Monte, Westinghouse Savannah River Company, N. Augusta, SC	
Hodge, Altsert, Metro Augusta Chamber of Commerce, Augusta, GA	
Irwin, Chuck, Augusta, GA	
Johnson, Thomas, Jr., Department of Energy/Savannah River, N. Augusta, SC	
Joly, Ronald, Bechtel, Beech Island, SC	
Juba, Bob, AEDC, Amarillo, TX	
Kirkland, James, Transnuclear, Inc., Aiken, SC	
Konte, Asiya DeBorah, Citizens for Environmental Justice, Savannah, GA	
Losey, David, Aiken, SC	
Martin, Donna, Westinghouse Savannah River Company, Aiken, SC	
Mayson, William P., Jr., Augusta, GA	

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McMillan, Rachel, BNFL Inc., Washington, DC	
Miller, Ronald C., Aiken, SC	
Muhammed, Mustafa, Citizens for Environmental Justice	
Newman, R. I., Fripp Island, SC	
Noah, Christopher, Evans, GA	
Overman, Robert F., Aiken, SC	
Poe, William Lee, Jr., Aiken, SC	
Rivard, Caroline E., WAND (Women's Action for New Directions), Atlanta, GA	
Robbins, Jennifer, N. Augusta, SC	
Rogers, F. Wayne, Lower Savannah Council of Government, Aiken, SC	
Russell, Lawrence, Hephzibah, GA	
Sanders, Wilburn C., Bechtel, N. Augusta, SC	
Schill, Karin, The Augusta Chronicle, Augusta, GA	
Smith, Arthur, Citizens Advisory Board, SRS	
Storey, Raymond, Asbestos Workers, Ridgespring, SC	
Utey, Charles N., Hyde Park & Aragon Park Improvement Committee, Inc., Augusta, GA	
Van Namen, Robert, Duke Power Company, Charlotte, NC	
Van Sickle, Linda, Exploration Resources, Athens, GA	
White, Carolyn, Citizens for Environmental Justice, Savannah, GA	
Wilcox, Rodney C., Westinghouse Savannah River Company, Aiken, SC	
Wilkinson, Cory, Lawrence Livermore National Lab, Germantown, MD	
Wolfe, Ginny, Westinghouse Savannah River Company, Aiken, SC	
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Abrams, Grady, Bechtel, Martinez, GA	
Ali, Valentis F., V.F.A. Income Tax Service, Inc., Augusta, GA	
Benjamin, Richard, Westinghouse Savannah River Company, North Augusta, SC	
Bilyer, Jay, Department of Energy/Savannah River, Aiken, SC	
Brown, Lance, Westinghouse Savannah River Company, Martinez, GA	
Burn, Joseph, Washington Public Power Supply System, Richland, WA	
Callicott, Will, Westinghouse Savannah River Company, Aiken, SC	
Campbell, Charles, Westinghouse Savannah River Company, Aiken, SC	
Cook, Sybil, SAIC, Aiken, SC	
Dewes, John, American Nuclear Society, Savannah River, New Ellenton, SC	
Duane, John, Westinghouse Savannah River Company	
Erwin, William, Westinghouse Savannah River Company, Aiken, SC	
Finklea, Sam, SC DHEC, Columbia, SC	
Flake, Tim, Westinghouse Savannah River Company, Clarks Hill, SC	
Floyd, Edward E., Laborer Union 1137, Augusta, GA	
French, P. M., Aiken, SC	
Geddes, R. L., N. Augusta, SC	
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Goergen, Charles R., Aiken, SC	

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Hassenfeldt, Joseph, Department of Energy/Savannah River, Washington, DC	
Hills, Warren, LIWNA Local 1139, Augusta, GA	
Jernigan, Gail, Westinghouse Savannah River Company, Willisten, SC	
Jones, Thelonious, Citizens Advisory Board, SRS, Augusta, GA	
Jones, Albert, Westinghouse Savannah River Company, Swainsboro, GA	
Lanier, Clayton M., BSRI, Martinez, GA	
Lawless, William, Augusta, GA	
Lindholm, Mark, Westinghouse Savannah River Company, North Augusta, SC	
Liutkus, Tony, Martinez, GA	
Losey, David, Aiken, SC	
Maher, Robert, Westinghouse Savannah River Company, North Augusta, SC	
McClure, Anne, Services First, Inc., Athens, GA	
McCracken, Trisha, Augusta, GA	
McCranie, Gary, Westinghouse Savannah River Company, North Augusta, SC	
McDonell, William R., Westinghouse Savannah River Company (Retired), Aiken, SC	
Miller, Ralph S., Evans, GA	
Murfl, June, Aiken Chamber of Commerce, Aiken, SC	
Nason, Maurice, RCS, Inc., North Augusta, SC	
O'Brien, Frank, North Augusta, SC	
Partlow, Beth, Office of the Governor, Columbia, SC	
Pedde, R. A., Martinez, GA	
Rapp, Betty, Aiken, SC	
Rapp, Robert, Westinghouse Savannah River Company, Aiken, SC	
Schmitz, Mark, Westinghouse Savannah River Company, Aiken, SC	
Smith, Arthur, Citizens Advisory Board, SRS	
Smith, P. K., Education Chairperson, North Augusta, SC	
Sujka, Michael F., Augusta, GA	
Sullivan, Kent, Westinghouse Savannah River Company, North Augusta, SC	
Sumner, Wallace, Westinghouse Savannah River Company, Aiken, SC	
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E		
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F		
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Georgia Institute of Technology, Nuclear Engineering Program, Atlanta, GA, W. M. Stacey and J. A. Favorite	08.03.01, 13.00.00, 14.00.00	3-269
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Greenpeace, Washington, DC, Tom Clements	15.00.00	3-307
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H		
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Hanford Advisory Board, Portland, OR, Marilyn B. Reeves	01.00.00, 07.00.00, 08.00.00, 08.02.00, 08.03.00, 08.03.01, 09.00.01, 09.11.01, 10.01.00, 11.00.01, 15.00.00	3-312
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Health Professionals for Global Survival, Montreal, QC, Eric Notebaert	08.03.01	3-361
I		
ICF Kaiser Engineers/DANA Engineering Incorporated, Kennewick, WA, William P. Dana	09.08.01	3-372
IES Utilities, Cedar Rapids, IA, Walter Nodeen	08.03.01	3-373
L		
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N		
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Nez Perce Tribe, Lapwai, ID, Samuel N. Penney	08.01.00, 08.02.00	3-493
Nuclear Awareness Project, Uxbridge, ON, Irene Kock	01.03.00, 08.03.01	3-531
Nuclear Awareness Project, Uxbridge, ON, Irene Kock	08.01.00, 08.02.00	3-540
Nuclear Control Institute, Washington, DC, Paul Leventhal	01.02.00, 01.04.00, 01.06.00, 05.00.06, 05.00.08, 05.01.08, 06.01.08, 07.00.00, 07.01.00, 07.02.00, 08.00.00, 08.01.00, 08.03.00, 08.03.01, 09.09.08, 10.00.00, 10.02.00, 13.00.00	3-545
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Nuclear Information and Resource Service, Washington, DC, Mary Olson	01.02.00, 01.04.00, 06.01.08, 08.03.01, 09.04.08, 09.09.08, 09.11.08	3-595
O		
Oak Ridge Environmental Peace Alliance, Oak Ridge, TN, Ralph Hutchison	01.00.00, 01.01.00, 01.04.00, 01.06.00, 02.05.05, 08.00.00, 08.03.01, 11.00.05, 15.00.00	3-599
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P		
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Peace Action Texas, Dallas, TX, Jan Sanders	01.06.00, 08.02.00, 08.03.00, 08.03.01, 09.04.08	3-663
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R		
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Rocky Flats Citizens Advisory Board, Westminster, CO, Tom Marshall	01.00.00, 01.01.00, 01.02.00, 01.06.00, 05.01.08, 08.00.00, 08.02.00, 08.03.00, 08.03.01, 09.09.07, 10.00.00	3-810
Rocky Flats Cleanup Commission, Inc., Lakewood, CO, James S. Stone	08.03.00, 14.00.00	3-815
S		
Sanford & Associates, Nashville, TN, Charles S. Sanford	09.03.05, 09.10.08	3-837
Savannah River Site Citizens Advisory Board, Savannah, GA, Bob Slay	01.04.00, 06.02.08, 08.03.00, 08.03.01, 10.00.00	3-841
Seattle Woman Act for Peace/Women Strike for Peace, Seattle, WA	01.03.00, 01.04.00, 01.06.00, 06.01.01, 06.01.08, 08.00.00, 08.01.00, 08.02.00, 08.03.01, 12.00.00, 13.00.00	3-845
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Sierra Club, Virginia Chapter, Virginia Beach, VA, Robert F. Deegan	08.03.01	3-855
Snake River Alliance, Boise, ID, Robert McEnaney	01.02.00, 01.04.00, 01.05.00, 01.06.00, 05.03.03, 05.03.08, 08.03.00, 08.03.01, 09.02.08, 09.11.08, 11.00.08, 11.01.08	3-871
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Southwest Research and Information Center, Albuquerque, NM, Don Hancock	08.02.00	3-888
Southwestern Public Service Company, Amarillo, TX, William T. Crenshaw	07.02.00, 08.03.01, 09.00.08, 09.08.04, 15.00.00	3-889
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State of Oregon, Department of Energy, Salem, OR, John Savage	01.00.00, 01.03.00, 01.04.00, 01.05.00, 04.03.00, 06.01.08, 06.05.08, 06.06.08, 08.00.00, 08.02.00, 08.03.00, 08.03.01, 09.00.08, 09.01.01, 09.04.01, 09.05.01, 09.06.01, 09.07.01, 09.09.01, 09.09.08, 09.11.01, 10.00.00, 10.01.00, 10.03.00, 11.00.00, 13.00.00, 14.00.00	3-940
State of Oregon, Department of Energy, Salem, OR, Mary Lou Blazek	01.00.00, 01.02.00, 01.04.00, 05.00.08, 06.00.09, 06.01.08, 06.01.09, 07.00.00, 07.02.00, 08.02.00, 08.03.00, 08.03.01, 09.00.08, 09.05.08, 09.09.08, 10.00.00, 11.00.08, 12.00.00	3-957
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T		
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Teton Technologies, Inc., Idaho Falls, ID, Bill Quapp	14.00.00	3-1037
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U		
United States Arms Control and Disarmament Agency, Washington, DC, Dan Fenstermacher	01.04.00, 06.01.08, 12.00.00	3-1066
United States Environmental Protection Agency, Denver, Co, C. Mark Aguilar	01.00.00, 01.06.00	3-1079
United States Environmental Protection Agency, Washington, DC, Richard E. Sanderson	01.04.00, 09.01.01, 09.09.08, 09.12.06	3-1081
United States House of Representatives, Flint, MI, Congressman Dale E. Kildee	10.00.00	3-1086
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W		
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Boardman, Charles, Saratoga, CA	01.03.00, 01.06.00, 07.02.00, 08.03.01	3-74
Bohlander, Cecil, Pampa, TX	08.03.01, 13.00.00	3-81
Bolen, James E., Aiken, SC	01.00.00, 15.00.00	3-83
Bonner, Patrick, South Gate, CA	01.04.00, 08.03.01, 09.04.04, 09.09.04	3-84
Brechin, Vernon J., Mountain View, CA	01.00.00, 01.04.00, 06.01.09, 08.02.00, 08.03.01, 09.00.06, 09.01.02, 09.02.08, 09.11.08, 10.00.00, 10.03.00, 16.00.00	3-86
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Brodie, Rosemary E., Seattle, WA	08.03.01	3-97
Brunnenkant, C., Seattle, WA	01.03.00	3-98
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C		
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Charless, Addis, Jr.	08.03.01, 09.04.04, 09.09.04	3-129
Christianson, Marlene, Pocatello, ID	08.03.01	3-131
Chubb, Walston, Murrysville, PA	01.02.00, 05.00.08, 07.01.00	3-132
Cinquemani, D. K. & F. L., Montclair, NJ	08.03.01	3-134
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Detten, Danny	09.04.04	3-185
Devorak, Judith	08.03.01	3-186
Dorwart, Robert J., Seattle, WA	08.03.01	3-187
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E		
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Ewald, Linda, Knoxville, TN	08.03.01, 15.00.00	3-203
F		
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Fenmore, Carol, Pocatello, ID	08.03.01	3-213
Fitzgerald, Kara	08.03.01	3-214
Fitzgerald, Pete, Blackfoot, ID	08.03.01	3-215
Flangas, William A., Las Vegas, NV	01.06.00, 08.02.00	3-216
Flomenhoft, Mark, Seattle, WA	08.03.01	3-217
Foreman, Bob D., Richland, WA	08.03.01	3-219
G		
Geary, B., Tulsa, OK	01.04.00, 01.06.00, 08.03.01, 13.00.00	3-223
Gerrels, Elsworth, San Jose, CA	01.00.00, 01.03.00, 01.06.00, 05.01.08, 08.00.00, 08.02.00, 08.03.00, 08.03.01	3-272
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Goergen, Charles R., Aiken, SC	08.03.01	3-282
Goodell, Richard S., Amarillo, TX	08.03.01	3-283
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Gramstorff, Jeanne B., Farnsworth, TX	08.03.01, 09.04.04	3-286
H		
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Hanson, Steven, Rexburg, ID	08.03.01	3-357
Harley, Mary Lou, Bridgetown, NS	01.00.00, 01.03.00, 08.03.01, 15.00.00	3-358
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Hodge, Ward J., Marlette, MI	08.03.01	3-367
Holden, Paula, Seattle, WA	08.03.01	3-370
Hyatt, Linda, Dallas, TX	08.03.01	3-371
J		
Jobe, Lowell A., Idaho Falls, ID	08.03.01, 14.00.00	3-374
Johnston, Rob	08.03.01	3-375
Jolley, Michael F., Chubbuck, ID	08.03.01	3-376
K		
Kahn, David K., Idaho Falls, ID	01.00.00, 01.02.00, 01.04.00, 01.05.00, 08.02.00	3-377
Keesler, Mike, Rigby, ID	08.03.01	3-381
Keevan, Marcia, Amarillo, TX	08.02.00, 09.04.04, 09.05.04	3-382
Keisimeyer, W. H., Augusta, GA	01.04.00	3-387
Kelley, David K., Amarillo, TX	08.03.01, 15.00.00	3-388
Kimberley, Stephen L., Eugene, OR	08.03.01, 14.00.00	3-389
King, H. H., Amarillo, TX	09.00.04, 09.00.08	3-390
King, Joan O., Sautee, GA	01.00.00, 08.01.00, 08.02.00, 08.03.01, 15.00.00	3-391
King, Joan, Sautee, GA	08.01.00, 08.03.01	3-393
Kleinau, S. K., et al., Kemble, ON	08.03.01	3-394
Kline, Connie, Willoughby Hills, OH	08.02.00, 08.03.01	3-402
Knight, Stacy	08.03.01	3-403
Koeberl, Dwight D., Seattle, WA	01.02.00, 08.03.01	3-404
Korth, Michael, West Richland, WA	07.00.00, 08.03.01	3-405
L		
LaBorde, Mrs. Leo, Amarillo, TX	08.03.01	3-407
Lampert, Morris	08.03.01, 09.01.04	3-408
Lancaster, Colleen, Brentwood, TN	08.03.01	3-409
Langer, Sidney, San Diego, CA	01.03.00	3-410
Lawless, W. F.	14.00.00	3-412
Leventhal, Paul, et al.	01.04.00, 01.06.00, 08.00.00, 08.02.00, 09.09.08, 10.00.00, 10.02.00	3-426
Lewis, Marvin, Philadelphia, PA	08.03.01	3-433
Lindstrom, Judy M., Pleasant Hill, TN	08.03.01	3-434
Litt, Valerine, Oak Ridge, TN	08.03.01	3-435
Locke, John W. and Joyce C., Amarillo, TX	08.03.01	3-436
Losey, David C., Aiken, SC	01.02.00	3-438
Lowrey, Michael J., Amarillo, TX	08.00.00	3-439

Table 1.2-5. Index of Commentors, Private Individuals—Continued

Commentor Information	Issue Bin Numbers	Page Number
M		
Magnus, Keith, Washington, DC	15.00.00	3-440
Manning, Sam P., Spartanburg, SC	08.01.00, 08.03.01	3-441
Manning, Sam P., Spartanburg, SC	08.03.01	3-442
Manning, Sam P., Spartanburg, SC	08.03.01	3-444
Mare, Lisa K., et al.	08.03.01, 09.04.02, 14.00.00	3-445
Mayson, W. Penland, Jr., Augusta, GA	08.03.01	3-448
McFarland, Lewis L., Portland, OR	08.03.01	3-450
Miller, Scott, Boise, ID	08.02.00	3-451
Mills, Loring E., Stevensville, MD	01.00.00, 08.03.01, 09.00.08, 09.09.08	3-452
Mills-Rekdal, Sheila, et al.	01.04.00, 08.03.01, 09.00.04	3-456
Miner, Ruth Allan and Mendelson, Emanuel S., Philadelphia, PA	08.03.01	3-459
Montgomery, David, Sultan, WA	01.06.00	3-467
Murphy, Jim, Amarillo, TX	08.03.01	3-469
Murray, Alexander P., Gaithersburg, MD	01.00.00, 01.02.00, 01.04.00, 02.00.08, 06.00.08, 06.01.08, 08.01.00, 09.01.08, 09.11.08, 12.00.00, 16.00.00	3-470
Myers, Joy, Dubois, ID	01.02.00, 01.03.00, 01.04.00, 01.05.00, 01.06.00, 04.02.00, 04.03.00, 06.00.08, 07.01.00, 07.02.00, 08.03.01	3-475
N		
Naughton, William F., Downers Grove, IL	06.01.09, 06.02.09, 06.05.09, 08.03.01	3-478
Neusch, Trish, Panhandle, TX	08.03.01, 09.02.04, 09.04.04	3-480
Newman, R. I., Fripp Island, SC	01.06.00, 07.02.00, 08.00.00, 08.03.01, 09.00.08, 09.09.08	3-486
No Name Submitted	09.00.08	3-494
No Name Submitted	06.05.08, 07.02.00, 09.00.04, 09.07.04, 09.10.08, 09.11.08, 10.00.00, 12.01.00	3-495
No Name Submitted	14.00.00	3-502
No Name Submitted	08.03.01	3-504
No Name Submitted	08.03.01	3-505
No Name Submitted	08.01.00, 08.03.01, 09.05.08	3-506
No Name Submitted	08.03.01	3-508
No Name Submitted	08.03.01	3-509
No Name Submitted	04.00.00, 04.01.00	3-510
No Name Submitted	07.01.00	3-511
No Name Submitted	12.00.00	3-512
No Name Submitted	09.09.08	3-513
No Name Submitted	08.03.01	3-514

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No Name Submitted	01.00.00, 08.03.01, 09.08.04, 15.00.00	3-521
No Name Submitted	08.03.01	3-523
No Name Submitted, Idaho Falls, ID	08.03.01	3-524
Noah, J. Christopher, Evans, GA	08.03.01, 11.00.08, 12.01.00	3-525
Norris, Karen, Boulder, CO	15.00.00	3-527
Norris, Karen, Boulder, CO	15.00.00	3-529
O		
O'Neill, John E., Madison, IN	01.04.00, 15.00.00	3-598
Olson, D., Victor, ID	08.03.01	3-619
Olson, Kim, Victor, ID	08.03.01	3-620
Osborne, Jeri, Amarillo, TX	01.05.00, 08.00.00, 08.03.01, 09.00.08, 09.09.04	3-624
Osborne, Jim, Amarillo, TX	08.03.01, 09.04.04	3-627
Oud, Alora, Ruppee, ID	08.03.01	3-629
Oversby, Virginia M., Livermore, CA	14.00.00	3-630
P		
Pangborn, Sally MacArthur, Seattle, WA	01.00.00, 08.03.01	3-635
Paruchuri, Kavendra	01.00.00, 01.06.00, 08.00.00, 08.02.00	3-660
Peace Action Texas, Dallas, TX, Jan Sanders	01.06.00, 08.02.00, 08.03.00, 08.03.01, 09.04.08	3-663
Peelle, Bob, Oak Ridge, TN	01.00.00, 02.00.08, 02.04.08, 07.02.00, 08.03.01, 13.00.00, 15.00.00	3-667
Peters, Don, Pocatello, ID	08.03.01, 09.04.03, 12.00.00	3-670
Peterson, Daniel E., Seattle, WA	01.03.00, 08.03.01	3-671
Peterson, Merry Ann, Seattle, WA	06.00.08, 08.03.01, 15.00.00	3-673
Picardo, Robin, Las Vegas, NV	08.03.01	3-677
Poe, W. Lee, Jr., Aiken, SC	01.00.00, 04.00.00, 04.03.00, 08.03.01, 09.00.08, 09.08.08, 09.09.08	3-678
Pottson, Ted, Amarillo, TX	08.03.01	3-681
Public Meeting Oral Comments, Amarillo, TX	06.01.08, 08.00.00, 08.03.01, 09.00.08, 09.04.04, 09.08.04, 09.11.08, 09.12.08	3-682
Public Meeting Oral Comments, North Augusta, SC	01.00.00, 01.03.00, 01.04.00, 01.06.00, 04.00.00, 04.03.00, 05.01.08, 06.00.08, 06.01.06, 08.00.00, 08.02.00, 08.03.00, 08.03.01, 09.00.06, 09.06.06, 09.09.06, 09.11.06, 09.11.08, 09.12.06, 09.12.08, 15.00.00	3-711
Public Meeting Oral Comments, Denver CO	01.00.00, 01.02.00, 01.03.00, 01.04.00, 01.05.00, 01.06.00, 02.00.08, 02.01.07, 04.00.00, 04.02.00, 05.00.08, 07.01.00, 08.03.00, 08.03.01, 09.11.08, 13.00.00, 15.00.00	3-722

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Public Meeting Oral Comments, Las Vegas, NV	01.00.00, 01.02.00, 01.03.00, 01.05.00, 02.00.08, 06.05.08, 08.02.00, 08.03.00, 08.03.01, 09.00.02, 09.01.02, 09.07.02, 09.08.02, 10.00.00, 10.01.00, 11.01.02, 12.00.00, 12.01.00, 13.00.00, 14.00.00	3-742
Public Meeting Oral Comments, Oak Ridge, TN	01.04.00, 01.06.00, 06.00.09, 08.00.00, 08.02.00, 08.03.01, 09.08.08, 13.00.00	3-752
Public Meeting Oral Comments, Richland, WA	01.00.00, 01.02.00, 01.03.00, 01.06.00, 02.00.01, 03.01.08, 06.00.08, 06.01.08, 07.00.00, 08.00.00, 08.01.00, 08.02.00, 08.03.00, 08.03.01, 09.09.08, 10.01.00, 11.00.01, 15.00.00	3-756
Public Meeting Oral Comments, Washington, DC	01.00.00, 01.06.00, 05.00.08, 05.01.08, 06.01.08, 06.01.09, 07.00.00, 08.00.00, 08.02.00, 08.03.00, 08.03.01, 09.00.08, 09.03.08, 09.10.08, 09.11.08, 10.00.00, 10.02.00, 14.00.00	3-777
R		
Rask, William C., Lakewood, CO	01.00.00, 01.04.00, 14.00.00	3-791
Reynolds, Robert, Victor, ID	08.03.01	3-795
Richards, Matt, San Diego, CA	05.01.08, 05.03.08, 07.00.00, 07.01.00, 07.03.00, 08.02.00, 12.00.00, 14.00.00	3-796
Rogers, Gordon J., Pasco, WA	01.06.00, 08.03.01, 11.00.01, 11.01.01	3-823
Ruddy, Karen, Amarillo, TX	08.03.01	3-825
Rumsy, Russ	08.03.01	3-826
Ryskamp, John M., Idaho Falls, ID	01.03.00, 08.03.01	3-827
Ryskamp, John M., Idaho Falls, ID	11.01.08	3-828
Ryskamp, John M., Idaho Falls, ID	09.00.08, 16.00.00	3-829
S		
Salanis, Eustolne, Jr., Richland, WA	08.03.01	3-830
Salisbury, Diana, Sardinia, OH	01.02.00, 01.04.00, 02.00.08, 02.01.08, 08.03.01, 09.00.08	3-831
Scott, Richard G., Amarillo, TX	08.03.01	3-844
Seewald, William H.	01.00.00, 01.02.00, 01.06.00, 08.01.00, 09.00.04, 09.04.08	3-849
Shennum, Mary L., Amarillo, TX	01.04.00, 09.00.04	3-851
Shillinglaw, Faun, Appleton, WI	08.03.01	3-852
Sims, Lynn, Portland, OR	01.00.00, 01.06.00, 08.02.00, 08.03.01	3-856
Sims, Lynn, Portland, OR	08.03.01	3-859
Singleton, Don, Amarillo, TX	08.03.01	3-860
Singleton, Donna	08.03.01	3-861
Slaggle, Norbert, Shamrock, TX	08.03.01	3-862

Table 1.2-5. Index of Commentors, Private Individuals—Continued

Commentor Information	Issue Bin Numbers	Page Number
Smith, Doris	08.03.01, 09.00.04	3-863
Smith, Doris Berg, Amarillo, TX	01.05.00, 08.03.01, 09.00.08, 09.04.08, 12.03.00	3-865
Smith, Frank White, Boulder, CO	01.01.00, 14.00.00, 15.00.00	3-867
Speiser, Joshua, Seattle, WA	08.03.01	3-898
Stein, Jerry, Happy, TX	08.03.01	3-1027
Stock, Sidney, Bellevue, WA	08.03.01	3-1028
Szempruch, Rich, Kennewick, WA	08.01.00	3-1029
Szempruch, Rich, Kennewick, WA	01.00.00	3-1030
T		
Thomas, Anita, Pocatello, ID	08.03.01	3-1056
Thomas, L. B., Albuquerque, NM	01.00.00, 01.02.00, 01.05.00, 02.00.08, 04.00.00, 11.00.08	3-1057
Thompson, Gary	01.04.00, 01.06.00, 08.03.01	3-1060
Thorpe, Mignon S., Upper Montclair, NJ	08.03.01	3-1062
Turner, Charles W., Seattle, WA	14.00.00	3-1063
W		
Wakely, Lila, Lava Hot Springs, ID	08.03.01	3-1099
Wallis, Walter, Palo Alto, CA	01.04.00	3-1100
Walter, Carl E., Pleasanton, CA	01.03.00, 07.00.00, 07.02.00, 08.00.00, 08.02.00, 13.00.00	3-1101
Walton, Barbara A., Oak Ridge, TN	01.00.00, 08.02.00, 08.03.01, 09.05.08, 16.00.00	3-1107
Werth, Kenneth F., Arvada, CO	01.06.00, 14.00.00	3-1116
Werth, Kenneth F., Arvada, CO	08.03.01, 14.00.00	3-1119
White, C. E., Jr., Idaho Falls, ID	08.03.01	3-1159
Wilcox, Robert H., Martinez, GA	01.00.00, 06.00.09, 08.03.01	3-1160
Wilcox, Rodney C., Aiken, SC	08.03.01	3-1161
Wilson, Steve, Aiken, SC	01.00.00, 08.03.01	3-1162
Wink, Anna Marie, Amarillo, TX	08.03.01, 09.00.04	3-1163
Wood, M. R., Seattle, WA	08.03.01	3-1168
Y		
Yevsikov, Victor V., and Well, Nikita I., Bethesda, MD	01.00.00, 13.00.00, 14.00.00	3-1170
Young, Faith, Dixon Springs, TN	08.03.01	3-1177
Younghans, Lorraine, Beatty, NV	08.03.01	3-1178
Z		
Zeller, Myra	15.00.00	3-1179
Zepeda, Barbara, Seattle, WA	15.00.00	3-1180

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Commentor Name/Organization	Issue Bin Numbers	Page Number
Barlow, Sheila	08.03.01, 09.04.02, 14.00.00	3-445
Brooks, Christine		
Heller, Sherry		
Guipe, Rachel		
Mare, Lisa K.		
Mills, Ellen D.	01.04.00, 08.03.01, 09.00.04	3-456
Mills-Rekdal, Sheila		
Rekdal, Andrew		
Rekdal, Randy		
Greenpeace International, Tom Clements	01.06.00, 05.03.08, 08.00.00, 08.02.00, 09.09.08, 09.11.08, 10.02.00, 13.00.00	3-426
National Resources Defense Council, Christopher E. Paine		
Nuclear Control Institute, Paul Leventhal		
Nuclear Information Resource Service, Michael Mariotte		
Nuclear Waste Citizens Coalition, Fred Miller		
Physicians For Social Responsibility, Daryl Kimball		
Public Citizen, Bill Magavern		
Union of Concerned Scientists, Jennifer Weeks		
Women Strike for Peace, Kathryn Crandall		
Ahmol, N.	08.03.01	3-394
Albarda, Hans		
Alcock, Norman		
Baltaz, Diane		
Benvenuti, Paul		
Bladen, Georgia		
Bladon, Eleanor		

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Bruer, Paul M.	08.03.01	3-394
Burger, Stuart		
Cooper, Kathy C.		
Cameron, Caroline		
Coupland, Carol		
Dean, Barbara M.		
Dumsoll, John		
Dunlop, Heather		
Eberhart, Eric		
Ellis-Whitney, Bernice		
Ford, Paul		
Golding, Christopher		
Hall, Robert		
Hamm, Douglas		
Hepf, Marcella		
Heggs, Ryan		
Hemmo, J. L.		
Jueline, John		
Kerbs, Benna		
Kleinau, S. K.		
Kock, Irene		
Kruetzer, Vitold		
Kuellmer, Jim		
Kulla, Eddy		
Lalonde, Jean		
Lyons, John and Charles		
Margetts, David		
McQuall ¹		
McQuail, F.		
Moore, June		
Nickerson, Nure		
Nunn, Tom		
Ochman, Stefan		

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Ohrt, Russ	08.03.01	3-394
Ohrt, Sandra-Jean		
Osborne, Justin		
Osborne, Tanya		
Ponlton, Sandra		
Pym, Cathie		
Pym, Janet		
Pym, Jeff		
Ronn, Rick		
Ruland, Carol		
Stanley, Cathy		
Straughan, Wayne		
Taylor, Susan		
Tompkins, Edith		
Tompkins, Ruth		
Wheeler, Margaret C.		
William, Yake		

¹ Legible portion of commentor names appear in this table.

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01.01.00	3-53, 3-606, 3-607, 3-811, 3-869, 3-880, 3-881, 3-971, 3-1022
01.02.00	3-25, 3-26, 3-28, 3-33, 3-41, 3-53, 3-132, 3-149, 3-150, 3-166, 3-253, 3-254, 3-338, 3-377, 3-404, 3-438, 3-472, 3-473, 3-476, 3-545, 3-597, 3-725, 3-731, 3-744, 3-759, 3-763, 3-765, 3-789, 3-812, 3-832, 3-849, 3-854, 3-873, 3-879, 3-933, 3-958, 3-960, 3-1057, 3-1112, 3-1113, 3-1114
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01.04.00	3-22, 3-73, 3-84, 3-86, 3-101, 3-137, 3-159, 3-179, 3-182, 3-223, 3-254, 3-267, 3-288, 3-331, 3-336, 3-338, 3-379, 3-380, 3-387, 3-428, 3-457, 3-470, 3-472, 3-475, 3-483, 3-551, 3-559, 3-590, 3-595, 3-596, 3-598, 3-603, 3-607, 3-613, 3-650, 3-676, 3-712, 3-713, 3-714, 3-715, 3-724, 3-734, 3-753, 3-791, 3-809, 3-831, 3-842, 3-846, 3-851, 3-853, 3-872, 3-875, 3-876, 3-880, 3-940, 3-944, 3-960, 3-974, 3-1019, 3-1022, 3-1023, 3-1060, 3-1067, 3-1085, 3-1100, 3-1111, 3-1166
01.05.00	3-29, 3-100, 3-101, 3-178, 3-226, 3-229, 3-241, 3-254, 3-266, 3-339, 3-340, 3-341, 3-356, 3-377, 3-378, 3-379, 3-475, 3-593, 3-624, 3-675, 3-722, 3-733, 3-734, 3-743, 3-866, 3-872, 3-954, 3-975, 3-1059
01.06.00	3-22, 3-64, 3-75, 3-101, 3-124, 3-211, 3-216, 3-221, 3-223, 3-253, 3-273, 3-287, 3-288, 3-289, 3-290, 3-294, 3-310, 3-365, 3-420, 3-427, 3-428, 3-467, 3-475, 3-490, 3-545, 3-546, 3-550, 3-556, 3-557, 3-558, 3-594, 3-604, 3-605, 3-606, 3-645, 3-660, 3-666, 3-676, 3-713, 3-715, 3-722, 3-730, 3-731, 3-753, 3-761, 3-779, 3-780, 3-811, 3-812, 3-823, 3-845, 3-846, 3-847, 3-849, 3-853, 3-854, 3-857, 3-871, 3-872, 3-874, 3-881, 3-883, 3-884, 3-976, 3-982, 3-1011, 3-1016, 3-1018, 3-1060, 3-1079, 3-1080, 3-1116, 3-1134, 3-1165
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08.03.00	3-32, 3-47, 3-70, 3-159, 3-166, 3-275, 3-313, 3-314, 3-348, 3-349, 3-484, 3-556, 3-577, 3-613, 3-614, 3-665, 3-718, 3-725, 3-726, 3-733, 3-747, 3-763, 3-779, 3-811, 3-815, 3-831, 3-842, 3-875, 3-877, 3-885, 3-886, 3-900, 3-910, 3-915, 3-931, 3-935, 3-942, 3-950, 3-958, 3-965, 3-1012, 3-1092, 3-1115, 3-1138, 3-1144

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No Location Submitted	Livermore	Abola, M. C.	Allen, Howard E.	Andrews, Kerman	Atkins, Charles
Albralto, Paul	Shepodd, Tim	Abraham, David	Allen, James	Andrews, Pauline	Atkins, Judy
Anderson, E.	CUBA	Abrahamson, Steven	Allen, John R.	Angel, Mano	Atkinson, Joe
Ballon, Mike	Guantanamo Bay	Abshire, Linda	Allen, Karen	Angel, Raul V.	Atkinson, King D.
Dean, Brandy	Fox, Brian C.	Acker, Sherri	Allen, Tanita	Angel, Sylvia	Atler, Diane
Ekouth, R. B., Jr.	Fox, Stephanie	Acklin, Merle W.	Allen, William R.	Anghin, Lynn	Atley, Patti
Elliott, Mary L.	GEORGIA	Acrey, Melinda	Alley, Peggy W.	Anldridge, Katrina	Auman, Eva M.
Frigt, Dean	Valdosta	Adams, Barbara	Allison, Julie	Anthony, Brenda	Auman, Laurence E.
Garcia, Marilyn	Cox, Brandy	Adams, Gary	Allison, Loyce R.	Antony, Laura	Aurouze, Dorothy
Godwin, Michael	Fox, Sean C.	Adams, Lori	Allison, Phyllis	Apeland, Diane	Austin, Brenda
Gooden, H.	NEW MEXICO	Adamski, Robert	Alsorta, Terri	Archer, Aurelia	Austin, Duane
Gutierrez, Luis J.	Hobbs	Adcox, Debbie K.	Althaus, Mac E.	Archer, C.	Austin, Maurice S.
Gutierrez, Santiago	Martin, Jackie	Addington, Jeffery L.	Altman, Mattie	Archinal, Bill	Austin, Scott
Harris, Donna	Martin, Melton	Adelman, Louise	Altman, Robert	Archulito, Samuel	Austin, Steven J.
Jones, Darren K.	OKLAHOMA	Adelman, Stanley I.	Altschwagon, Carl	Ardcock, Beverly	Austin, Virginia
Laja, Alvaro	Shattuck	Aget, Nicholas A.	Alvarado, Diana	Arful, K. J.	Austin, Zach
LaRoche, Yephon	Patal, Narendra K.	Aguayo, Sonya	Alvarado, Manuel	Arher, Robert	Autrey, Emmett A.
Lax, B. J.	TEXAS	Aihn, John H.	Alvarez, Jamie	Arkaifie, Doris	Autrey, Linda
Lester, T. H.	Adams, Leon	Ailson, R., Jr.	Alvarez, Juan	Arkaifie, Grace	Autry, Carol
May, Jerry	Coleman, Chris	Ainey, Dennis	Alvarez, Thomas S.	Arkaifie, Sam	Autry, David T.
Medull, James T.	Ingels, Dana	Akin, Tom E.	Alvarez, Toni R.	Armstrong, Debbie	Avant, Dewayne
Mitchell ¹	James, Jesse P.	Alb, Tarey	Alvarez, Y. P.	Armstrong, Shellie	Avery, Joyce
Navanete, Felipe, III	Jennings, Wendy R.	Albus, Joe	Alxal, Linda	Arney, Marguerite	Avery, Sandy K.
Nolan, A.	Milm, Dale A.	Albus, Teresa	Ambers, H.	Arnid, Carla	Avirette, Don
O'Rand, Rodney	Scott ¹	Alderete, John	Ambers, Lauren	Arnold, Jim	Ayers, Jon R.
Roberts, Jerry	Swan, Stacie	Alexander, Judy	Amenor, Fred	Arnold, Perry K.	Ayola, Luis
Rodriguez, Willis	Williams, Jan	Alexander, Louise	Ammons, Drexel	Arnold, Shirley	B, Anthony
Sam ¹	Wright, A. R.	Alexander, Stacy L.	Amy ¹	Arnold, Sue	Babash, Craig
Scott, Betty	Alanreed	Alfa, Rich	Anderson, Bonnie L.	Arriaga, Rodolfo	Babb, Chuck
Short, Bert	Dorsey, Catherine	Alford, Robin	Anderson, Debra D.	Arroyo, Frank	Bachman, Shawna
Stafford, Carol F.	Martin, Rebecca E.	Alford, Tony	Anderson, Donna	Arthurs, Phyllis	Backing, George
Strange, Ronnie	Amarillo	Alivdrez, Joe B.	Anderson, Fred G.	Arwine, Barbara	Backus, Larry P.
Tarr, Janet	Abbananto, Cheryl L.	Alkrin, Joseph J.	Anderson, Jim	Asberry, Donnell	Bacon, Howard C.
Velasquez, Bobby	Abernathy, Jeannie	Allen, Bill J.	Anderson, John L.	Asen, Linda M.	Baer, Bret
Wardell, Steven L.	Abesha, Sisay A.	Allen, Cody	Anderson, Kae	Ashcraft, Robert	Bagley, James
Whitley, David		Allen, Dale E.	Anderson, Kathryn	Ashland, Gary	Bagot, Donald
CALIFORNIA		Allen, Dean	Anderson, Kirk	Ashlock, Lynn, Jr.	Bahn, Judy
Compton		Allen, Della	Anderson, May	Ashton, Jerry	Bahr, Mike
Smalls, Biggy		Allen, Diane	Anderson, Robbie	Ashworth, Jeny	Bailey, Cathy
		Allen, Fredia	Anderson, Tony	Ashworth, Michael D.	Bailey, Debbie
		Allen, Gary L.	Andrada, Elizabeth	Ater, Justin	Bailey, Donald A.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Barkee, Virginia	Baucom, Milba	Belott, Kim	Betts, Myrl	Black, Jett
Bailey, James	Barker, Christine	Bauer, Leonard	Benavidez, F.	Beuers, Johnenne	Black, Skip
Bailey, Jean	Barksdale, Timothy	Baugh, Royce	Bends, Maria	Beukenkamp, Ronald	Blackwelder, Doris
Bailey, Lauren	Barlow, Donna	Bauman, Robert, Jr.	Benge, Dianna	Bevens, Betty L.	Blackwelder, H.
Bailey, Martha	Barlow, Ruby	Bausman, Sarah	Benge, Jeff	Bevers, Lee	Blackwell, Dean
Bailey, Mike	Barn, Robert	Beach, Lisa	Benge, Mike	Beyer, Don	Blackwell, Donald G.
Bailey, Tammy	Barnard, Carolyn	Beagles, D. H.	Bengston, Carolyn	Beyer, Glenn W.	Blackwell, Mary Jane
Baily, D.	Barnard, J.	Beam, Deborah A.	Benjamin, Chantal	Beyers, Jesse	Blackwell, Rose
Bain, Chris	Barnert, D.	Bean, Richard L.	Benjamin, D. K.	Bice, Lori A.	Blain, Charles M.
Baker, Albert	Barnes, Kenneth R.	Beard, Dora	Benley, Mark	Bidwell, J. Brian	Blake, Chad
Baker, April	Barnes, Mark	Bearden, Jeff	Bennett, Bill	Biggins, L. Dale	Blake, Sandy
Baker, David	Barnett, Dean	Bearden, Jim	Bennett, JoAnn	Biggs, A. D.	Blake, Wade
Baker, David E.	Barnett, Patti	Beatly, B.	Bennett, Jonathan	Bilguy, Dewain	Blakely, John, Jr.
Baker, Gary G.	Barnett, Royce	Bechnul, Jerry	Benson, Carl	Bill McKaskle.	Bland, Wanda
Baker, Jerry S.	Barney, J. C.	Beck ¹	Benson, Gordon	Billington, B. A.	Blandford, Janice
Baker, Kermit	Barnhill, Carol	Becker, Steven H.	Bentle, Marcia E.	Billington, Cledon	Blankenship, O. J.
Baker, Kim	Barrera, Arturo	Beckley, James	Bentle, Mark	Billington, Elizabeth	Blankinship, J. Etta
Baker, Mary	Barrett, Ernie	Beddou, R. Dean	Bentley, Linda	Bills, Gretchen	Blanton, Charles K.
Baker, Raymond E.	Barrett, Lee	Beddow, Vicky	Bentley, William	Bills, R.	Blanton, Peggy
Baker, Robert	Barrett, Louise	Beebe, Sandra	Benton, J. Mac.	Billy ¹	Blashill, D. L.
Baker, S.	Barrett, N. E.	Begley, Mike	Benton, Jan	Bim, Diane	Blatzheim, James
Baker, Shawn	Barrick, Bruce	Behannon, Samuel F.	Beny, Donald G.	Binbresca, Yolanda	Blaylod, R. O.
Baker, T. G.	Barringer, Ernest W.	Beird, Jerry J.	Berg, Howard	Bindenfield, Robert	Blucher, Donnie
Baker, Vicki	Barron, Susie	Belcher, Beckie	Berge, Karl	Bingham, William B.	Blucker, Carol
Baldock, Lester L.	Barry, Lyndon	Belcher, Luther	Berger, Ervin C.	Binarschmitt, F.	Bluge, Redawna
Baldwin, Johnny	Bartels, Mark S.	Bell, David A.	Berggren, Rodger	Bippus, L. Kirt	Boatwright, Patricia
Baldwin, Lynne	Bartes, Patsy J.	Bell, Dawn	Berlinger, Phyllis	Birge, Glenna J.	Boaz, Maryann
Ballard, Curtis	Bartlett, Jeane	Bell, Doyla	Bernart, Carolyn	Birkbeck, Thomas E.	Bob ¹
Balvin, David	Barton, Blaine	Bell, Gene	Berner, Steven J.	Birkenfeld, Nadine	Bodey, J. M.
Bambs, Keith	Bartos, Abel J.	Bell, George	Bernie, Brad	Birkenfeld, Robert	Bods, Jettea
Ban, Nancy J.	Basinger, Ray E.	Bell, John A.	Berry, Angie	Birleheard, Andrea	Boese, Connie A.
Banera, Gloria A.	Bass, A.	Bell, Joyce	Berry, D'Ann	Birtaid, John S.	Boggs, Greg
Banister, Barbara K.	Bass, Jason L.	Bell, LeDon	Berry, Jim	Birtciel, Gwen	Bohannon, Lenora
Bankhead, Herbert	Batchlear, Denby	Bell, Mary B.	Berry, Pam	Bishop, Johnnie L.	Bohensky, Debra
Banner, Edwin C.	Batchlear, Lany	Bell, Sally	Berry, Rick	Bishop, Lorita	Bol, S. L.
Barbee, Virginia	Bates, Shelley	Bell, Sally R.	Berry, Ronald K.	Bjork, Troy	Bolden, Jason
Barclay, Alana	Bates, Tracie A.	Bell, Sherral	Berry, Toni	Black, Brent	Bolk, Debbie
Barclay, Billy W.	Batly, W. N.	Bell, William J.	Berry, Trava L.	Black, Donna	Bolton, Anita
Barclay, Olan	Batten, W. E.	Belles, Margie	Betamount, Daniel	Black, Douglas	Bomar, Dori
Barcroft, Mary	Baty, Curtis	Bellher, Patricia L.	Bethel, Cora	Black, Edward L.	Bomar, Glenna
Bark, Tony	Baucom, Kaye	Bellieu, Rodney	Bethel, Linda	Black, H. W.	Bond ¹

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Bozena, Joseph	Bridgen, M.	Brown, J. R.	Bull, Walter S.	Bush, Lance
Bonifield, Tamara	Brack, Dayton F.	Bridges, Edwin	Brown, Joanne	Bullard, Arthur	Bush, Laura L.
Bonner, Norma J.	Brack, Katherine J.	Briggs, Bettye	Brown, Kathy	Bullard, Deena	Bush, Steve
Booker, Jou D.	Brack, Kye	Briggs, Billy T.	Brown, Kenneth L.	Bullion, Karen S.	Bussey, Brenda
Boone, Curtis G.	Brackens, Alesandra	Briggs, Linda	Brown, Larry	Bullock, Mary	Bustos, Edward
Boone, Steven A.	Brackens, Anna	Brigman, John	Brown, Lesley	Bullock, Robert A.	Bustos, Ricardo
Boone, Wanda	Braddock, Mary	Briley, Steven	Brown, Michael L.	Bullrug, Donna	Butler, Jeff
Booth, Alan	Braddock, Sherri	Brimson, Laura E.	Brown, Neely	Bundy, Kevin	Butler, L. K.
Bordley, C.	Bradley, Barbara	Brinkley, Curtis T.	Brown, Ronald	Bundy, Pauline	Butler, Linda
Boren, James	Bradley, Ed	Brinkley, Pam	Brown, Shaun	Bunhhatta, Jimmy	Butler, M.
Borfier, Brad	Bradshaw, James M.	Brint, R. P., III	Brown, Shawn	Bunney, George	Butler, P. J.
Borg, Peggy A.	Bradshaw, Janet	Briseni, Mary	Brown, Toshiko K.	Burdett, Brad	Butler, Steve
Borger, Jean P.	Brady, Carla R.	Brister, Ben	Brown, Vastine C.	Burdett, Thomas L.	Butrie, Bruce
Borger, C., Jr.	Brady, Johnny	Brits, Danny	Brown, Virgil	Burge, Marla	Butts, Marshall W.
Borger, Larry	Brady, R. J.	Britten, Danny	Brownley, H. E.	Burge, Richard	Buysers, William T.
Borger, Mike	Bran, D.	Britten, Kay	Brucker, Craig	Burgett, Charles	Buzzer, Patricia D.
Borver, David E.	Brand, Curtis	Britten, Mark	Bruckner, Ben	Burian, Judith N.	Byars, Lyle E.
Bostick, Debbie	Branden, Lydell	Brock, Merl	Bruling, Brenda	Burk, Judith L.	Bybee, Billy M.
Bouchard, Larry	Brannon, C.	Brock, Richard C.	Brunson, Kinney	Burk, Norman	Byers, Linda
Boudreau, Renee	Brannon, Quincy	Brock, Shirley	Brunton, Joey D.	Burke, Lance M.	Byrd, Alvis
Boudreaux, Glenn	Branson, J. D.	Brohlin, Billie B.	Brunton, Rita	Burke, Patrick C.	Byrd, David
Boughman, Lou	Branson, Jerall D.	Brohlin, Linda	Bryan, Everett	Burke, Richard L.	Byrd, N.
Bounds, Gerald	Branstutter, G. H.	Brokens, Martin M.	Bryan, Michael R.	Burkhead, Byron	Byrd, Thomas E.
Bovey, Terry	Brantley, Frances L.	Bron, Daine	Bryant, Betty	Burkialton, Tom	Byrum, Robert J.
Bowen, Bill	Brashears, Sue A.	Brookes, James N.	Bryant, Bruce	Burks, Don	Byrums, Dick
Bowers, Ashley E.	Bratcha, Leigh	Brooks, Brandy	Bryant, F. B.	Burks, R. N.	C. P. ¹
Bowles, Chrissa	Brattin, Gordan	Brooks, Claud	Bryant, James	Burks, Susan	Cabello, Simona
Bowles, Josh	Brauler, Tracy	Brooks, Dan	Bryant, R. W.	Burlfield, Saul	Cabrera, Pablo M.
Bowling, Kerry	Braussard, Lyddie	Brooks, Dan	Bryant, Sam	Burling, Gerald H.	Cagle, Anson
Bowman, Michael	Bray, Charlotte	Brooks, Leon	Bryson, Neal	Burnam, Becky	Cagle, Bob
Bowman, W. A.	Brazille, Doris	Brooks, Marc	Bryson, Peggy S.	Burnelt, Adrian	Cain, Artis
Bowser, John L.	Breazeale, Dianne	Brooks, Phyllis	Buatos, John	Burnett, Roy	Cain, Donna
Boyce, Peter M.	Breeding, Russell	Brooks, William	Bubly, Thomas	Burney, Shannon	Cain, Ronnie
Boyce, William C.	Bregano, Rhonda	Broom, Randall L.	Bucks, Teresa	Burns, R. H.	Cald, Daniel
Boyd, Dennie	Bremer, Carol	Broseh, Teresa	Budzynski, Jo Anna	Burns, Rhett	Caldin, Terry
Boyd, Ernie	Brenner, Mike	Brow, Bonnie	Buell, Sharon M.	Burnschmitt, Linda	Caldwell, Charles D.
Boyd, Robin	Brewa, Gail	Brown, B. A.	Bughnon, Frank	Burris, Barbara	Caldwell, Debbie
Boyer, Larry E.	Brewer, Stuart R.	Brown, Bertha	Bugley, Austin	Burrows, K.	Caldwell, Kristine
Boykin, Todd W.	Brewit, Rob	Brown, Christie	Bukleck, Janice C.	Burrus, Troy	Caldwell, Shannon
Boyle, Aaron	Bribon, Shala	Brown, D. Jerome	Bulholz, Janice K.	Burruss, John W.	Calhoun, Sherry
Boynton, Raymond	Brice, Bobby	Brown, D. L.	Bull, Douglas	Burton, D. K.	Calhoun, Terry

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Carlson, John R.	Castleberry, Ed	Childress, Jay	Click, Bob	Combs, James R.
Callahan, Amy	Carl, Christalle	Castleberry, Roger	Childs, Debra	Click, Clifford N.	Comer, Ken
Callahan, Stan	Carpenter, Brenda	Cataldi, Steve	Chipman, Lisa	Click, Kathy	Comer, Mary M.
Callan, Bob	Carpenter, Max	Cate, Marie	Chism, Diane	Clifton, Brenda	Comer, Terri
Callaway, Kirby	Carpenter, Robert	Catherall, Pete	Chism, Grace	Clifton, Johnny	Coniglio, Diana
Callaway, Steve	Carpenter, S. Dean	Cathy, Michele	Chisum, D. R.	Clifton, Tricia	Conklin, Danny H.
Callen, Bob	Carper, Don C.	Caudle, Geary M.	Chreders, Miles	Cline, Shirley	Conklin, Woody
Callihan, S. F.	Carper, Glenda J.	Caufman, Linda	Christian, Charles R.	Clorrette, Charlotte	Conley, Pat
Callihan, S. P.	Carr, Mae	Cawthron, Tiffani C.	Christopher ¹	Close, Debra	Conn, Bill
Calvo, Juan	Carr, Terence B.	Ceballos, Roger	Christy, Melinda	Cloud, Curtis A.	Conn, Kenneth R.
Calzaretta, Robert	Carraseo, Elva	Celey, Bobby	Chroscinski, Lilianna	Cloud, Sherra	Connally, Randy
Camarille, Maurice	Carrington, Denese	Cemanilla, Mary	Chumney, Roger D.	Clowe, Kevin	Connelly, Mike
Campbell, Alonza	Carroll, Annie	Cempuzeno, Azael	Clancy, Mona	Cluighorway ¹	Conner, Hilton J.
Campbell, Charlie	Carry, Kimberly	Cconeales, Leslie	Clark, Annette	Coats, Lyndal	Conner, Jerri
Campbell, Cleckel	Cart, Helen	Ceraf, Dan	Clark, Bill	Cobb, Vera	Conner, Martha J.
Campbell, Dana N.	Carter, Beth	Cerrantez, Ernie	Clark, Charles D.	Cochran, Audrey A.	Conner, Robert W.
Campbell, Don	Carter, Cindy	Cervantez, Marie	Clark, Doug	Cochran, Robert J.	Connor, J. Michael
Campbell, Dwight S.	Carter, Ike	Chadwick, Leona	Clark, Floyd K.	Cockrell, Britt	Contreras, Guadalupe
Campbell, Ervin	Carter, Linell	Chadwick, Williams J.	Clark, Gene	Cockrell, Gary	Contreras, Phillis A.
Campbell, Jean	Carter, Lois	Chalreels, Jerold	Clark, George	Cockrell, Glenn, Jr.	Contreron, K.
Campbell, Kerry	Carter, Matthew	Chambers, Vicki	Clark, Travis W., II	Cockrell, Marsha	Conturas, Richard
Campbell, Linda	Carter, Randy	Chandler, Cheryl	Clark, Kye	Coffey, Danny	Conturor, Henry
Campbell, Martha	Carter, Susan	Chandler, Doug	Clark, Lisa	Cogasin, Rick	Conway, Forrest
Campbell, R. B.	Carter, Troy	Chany, Vicki	Clark, Malcolm	Coker, Johnny L.	Cook, Carl
Campbell, Scott E.	Carter, Walter I.	Chapman, D.	Clark, Mary D.	Cole, Donna M.	Cook, Dennis L.
Campbell, Shimika	Carthe, Jack	Chapman, Jacqueline G.	Clark, Todd	Cole, Robert D.	Cook, Glenda
Cane, J. J.	Carther, Chris	Chapman, Jerry	Clary, Cathy	Coleman, Brian	Cook, Iona M.
Cannon, Randall L.	Cartwright, Billie J.	Chapman, Ruth L.	Clary, Vicki	Coleman, Danielle D.	Cook, Kathy
Cano, Irma	Cartwright, Bonnie	Charleomean, Pauline M.	Clay, Coye D.	Coleman, Danny	Cook, Ken
Cantwell, J. L.	Carv, Nector	Charles, Rick	Clayt, O. R.	Coleman, Dorothy B.	Cook, Missy
Cantwell, Don	Carwile, Dorothy	Charter, Jeffrey	Clayton, Gail	Coleman, Kennedy	Cook, Preston
Cappuiz, Luis	Casey, Sabrina A.	Chavez, Jesus S.	Cleavenger, Dever C.	Coleman, Ken	Cook, Ralph
Caranto, E. R.	Cash, William	Chavez, Kendra	Cleckest, Lonnie M.	Collens, Ken	Cook, Scott
Cardwell, Melinda	Casias, Bevery	Chavez, Robert	Clem, Shirley L.	Collier, Bill	Cook, Sherran
Cardwell, Pamela A.	Castellano, Leonard	Cheek, Cheryl	Clem, Tommy G.	Collins, E. T.	Cook, Vicky
Cargill, Larry D.	Castello, Rodolfo	Cheek, Robert	Clemens, Pamela	Collins, Jean	Cooke, Paul
Carleson, Thomas G.	Castillo, Rodolfo	Cheek, Robert	Clements, J.	Collins, Jeffrey C.	Cooke, A. E.
Carleton, Newton C.	Castillo, Betty J.	Chelf, Richard	Clements, M. F.	Collins, Karen	Cooks, James A.
Carlile, J. C.	Castillo, Jessica	Chermault, Kerry	Clements, Wendell L.	Collins, N. Susan	Cooley, June
Carlisle, Allan	Castillo, Juanita	Chevez, Raymond P.	Clemmer, James	Collins, Peggy	Cooper, Benny R.
Carlock, Wanda	Castillo, Marco A.	Chickle, Richard A.	Cler, Eddie	Collins, Russ	Cooper, Bobbie
	Castleberg, Duane	Chifford, Geoff		Combs, Bret	

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Coyne, Mary	Culp, Gary	Date, Gayle	Davis, Ray	Denney, Linda
Cooper, Cheryl	Craig, Sherrill J.	Culthel, J. D.	Daulton, Beverly	Davis, Richard H.	Dennis, Karen
Cooper, Jennifer	Craig, Wendell	Culwell, Kay	Davenport, James F.	Davis, Scott	Denny, Sharon
Cooper, Winfield B., Jr.	Crain, Robin	Cummins, Dan	Davenport, Patricia Y.	Davis, Sue C.	Denton, Dennis
Cooper, Paul	Crane, Robert M.	Cunningham, Cindy	Davenport, Sandra	Davis, Terry	Denton, Gary E.
Cooper, Weldon D.	Craven, Raphel C., Sr.	Cunningham ¹	Davey, Beverly	Davis, William R.	Denton, Nancy
Copeland, David	Crawford, Cary	Cunningham, Conald	Davids, Jack	Dawdy ¹	Dentor, Dan
Copeland, Maria	Crawford, Cindy J.	Cunningham, J. Pat	Davidson, Andrea P.	Dawdy, Tom	Derden, Cliff
Copeland, Rob	Crawford, Cynthia	Cunningham, Juna A.	Davidson, E. W.	Dawkins, Pattilou	Desmone, Will
Coppinger, Michael L.	Crawford, Jerry G.	Cunningham, Richard C.	Davidson, Edna I.	Dawson ¹	Determan, Richard
Corbitt, Elbert L.	Crawford, Mary	Cunningham, Rose	Davidson, Janice	Day, D.	Devaney, Claud W.
Corbitt, Frances E.	Crawford, Randy L.	Curie, Jose H.	Davidson, Melissa	Dayn, Paul	DeVanny, Amogene F.
Corden, Glen A.	Crawford, Vivian	Curnes, Rodney	Davidson, Nancy	Dazzi, Carl W.	Devore, David K.
Corington, Michelle L.	Crawly, Keith	Curphey, G. Don	Davidson, Robert	de Codes, Pedro	Dewey, Amy
Cornelison, Irenda	Creeden, Daniel	Currie, W. R.	Davidson, S. N.	de la Britone, B.	Dexter, Robert F.
Cornelius, Lillian	Creeden, Guwan H.	Curtay, Gayle	Davies, Mildred	De la Gaga, Ramiro	Diaz, Al
Correia, Sandra	Crenshaw, W. T.	Curtis, Lesia	Davis, B. J.	De Los Santo, Joe	Diaz, Blanca E.
Corteri, Bobby	Crespin, Albert E.	Curtis, Melony	Davis, Barbara	De Los Santos, Jamie	Diaz, Delfine
Cossabone, Jaynie	Creswell, Cynthia	Curtis, Roy E.	Davis, Bill J.	De Vine, Richard C.	Diaz, Dolores
Cost, Sharon	Criste, Tamara A.	Cutting, Betty	Davis, Brenda	Deal, Johnny	Diaz, Frankie
Cost, Steven	Crockett, Jeannette R.	Czewski, Tom	Davis, D. Linda	Dean, Patrick	Diaz, Guadalupe
Costley, Karen S.	Croft, William M., III	Daberwick, Daniel B.	Davis, David L.	Dean, Richard	Diaz, J. R.
Costs, Juan A.	Cromer, Barbara	Daily, Kim	Davis, Dick	Dean, Sharon C.	Diaz, Jacob
Cotgreave, Stan	Crook, Patricia	Dain, Charles O., Jr.	Davis, Don R.	Dean, Wallace R.	Diaz, Jesus T.
Coursey, Scott	Croosti, Gracie	Dalhour, Harold	Davis, Ed	Deaton, Paula	Diaz, Marcus
Coury, Kirk A.	Cross, Kathy	Dallas, Daniel D.	Davis, H. J.	Deaver, Jeff	Diaz, Prazedez H.
Couture, Celeste	Crossland, John M.	Dallas, Dwayne	Davis, J.	Deaver, Sandra	Diaz, Ray
Coventry, Melinda	Crouch, Claudia	Dalton, DeRema	Davis, James E.	Deckard, Jo	Dick, Timothy J.
Coventry, Neil	Crow, E. B.	Dammier, Charles D.	Davis, James H.	Deckard, R. K., Jr.	Dickens, James E.,
Covert, Lee	Crowley, Brenda	Dan, Laura	Davis, Jan	Deckard, Rocky D.	Dickerson, Janette
Covington, Annette	Crowley, Jerry	Daniel ¹	Davis, Janie	Deen, Barbara	Dickerson, Linda G.
Cowan, Charles	Crumpler, William A.	Daniel, Bruce W.	Davis, Janie S.	Dees, Celia	Dickerson, Nancy
Cowen, Alvin	Crutchmer, J. T.	Daniel, Deborah	Davis, Jody	DeGray, Cheryl	Dickey ¹
Cowrey, Michael J.	Cruz, Helen	Daniel, Judy	Davis, John	DeLeon, Gilbert	Diley, Kelly J.
Cox, Doris M.	Cuamb, Charlie	Daniel, Marilyn K.	Davis, Kathy	Deline, Karen	Dillaha, Yvonne
Cox, Ed	Cude, Bruce	Daniel, Scott	Davis, Kirk	Delone, Kevin N.	Diller, Gerald
Cox, Glenda G.	Cudriggs, Philip J.	Danny, E. W.	Davis, Lavonna	Demerson, S. E.	Diner, Clifford
Cox, Larry	Culk, Peggy	Darnall, Rex	Davis, Lucretia J.	Dempsey, Debbie E.	Dionizio, A. James.
Cox, Lou Ann	Cull, William T.	Darnell, Mark	Davis, M. R.	Demvy, Craig	Divens, Joyce
Cox, Lynn	Cullins, Joel	Darwin, R. H.	Davis, Pam	Dendy, Nichelle	Dixon, Cathy S.
Cox, Terry J.	Cullreath, Dave	Dasen, Rod	Davis, Pat	Denemey, Tim	Do, Phat

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Duck, Aaron	Eades, Rita	Ellis, Mark T.	Everly, David	Ferguson, Charlene
Dockeny, Gena	Duck, Don	Earls, Matt	Ellis, Sammie	Evers, Kathy	Ferguson, David
Dodge, Melissa E.	Duck, Sandy	Early, Lynn	Ellis, Thomas S.	Evilen, Grady	Ferguson, Greg
Dodson, Shellia	Dudley, Joyce	Early, Nathan	Elliston, Wayne	Ewing, Bobby D.	Ferguson, Jerry W.
Dodson, Stacy	Dufer, Bill	Easley, Doug	Elly, J. Dianne	Ewing, Gloria	Ferguson, W. Dan, Jr.
Dodson, Tim	Duffy, Jerry	Eastepp, Ruth	Elsen, Charles	Eyland, Ronnie G.	Ferraneso, Aime
Dogen, Roy	Dugan, Tessa	Eastman, James L.	Elsen, Mike	Eyre, Randy J.	Ferris, D. G.
Doggett, John D.	Duggan, Rowina	Eastland, Cindy	Elvebar, Ron	F. J. ¹	Fetterson, Geraldcan C.
Doggett, Kimberly A.	Dugie, Bonnie	Easton, Rose	Ely, J. Diane	Faggan, Janice	Fewell, Walt
Doherty, Vickie	Duila, Mike	Econtriz, C.	Embrey, Brad	Fahnert, Lou	Fiel, John A.
Dollar, Roger	Duke, Manuel	Eddington, Diana	Eminger, Randy	Fain, Cecil	Field, Paul P.
Domine, Mark J.	Dulton, Pat	Edes, Kathryn	Enewally, Jean	Fair, Wayne	Field, R. E.
Dompe, Jacki	Dunca, James R.	Edes, Melvin	Enge, Roby D.	Fairrow, Nannette	Fields, D. K.
Don ¹	Duncan, Bettie A.	Edmondsen, Ronald	Engle, William T.	Fairweather, Guy S.	Fields, Rebecca A.
Donald, Jessie	Duncan, Ernie	Edward, Tim	English, George W., III	Fajardo, Maria	Fike, David
Dora ¹	Duncan, Eugene	Edwards, Carol	Ennis, Rick	Fajardo, Marie	Fike, Leslie O.
Doran, Kay	Duncan, George	Edwards, Daena	Enriquez, Belen	Fajardo, Raymond T.	Filmore, Susan
Dorm, Monica	Duncan, Glenn	Edwards, David W.	Ernee, Carolyn	Falk, Kenneth	Filsouf ¹
Dorsey, Danny	Duncan, Jeanette	Edwards, Debra	Ervin, Cindy	Falkner, Richard	Fincher, Beverley
Doty, Dennis	Duncan, Kevin	Edwards, Jan	Erwin, Lela I.	Falram, Jimmy	Fincher, Jimmy
Dougherty, Paige	Duncan, Richard	Edwards, Krista	Escofo, David M.	Fanen, Steve	Fincher, Johnny
Dougherty, Tina	Duncan, Tracy	Edwards, Ora	Escole, Sharon	Fansher, Darell	Fincher, Larry
Douglas, Robert C.	Duniven, Betty	Edwards, Terri	Esparza, Josie	Fansler, Tony	Fincher, Larry G.
Douglass, Rebecca	Dunlap, Genell	Egoodkin, Alan	Espinoza, Margo	Farley, Larry	Finchino, Timmy
Downs, H. G.	Dunlap, Linda	Egoodkin, G.	Esquivel, Melissa	Farley, Robert	Finchy, A.
Doyle, Dale W.	Dunn, Della	Eichelmann IV, John	Estep, Dean	Farrell, Betty	Findley, Gerald L.
Drake, Dan	Dunn, Frances	Elbum, Ken	Estes, Peggy	Farrell, Linda M.	Findley, Melinda
Drake, Donald	Dunn, Jim	Elders, LaDonna	Etheridge, Steve	Farris, Thomas D.	Finky, Todd
Drake, Troveta	Dunn, Paul E.	Elfelt, J. M.	Eudey, Cheri L.	Farwell, Fenton	Finland, Barbara
Draper, Jerold	Dunn, Roy L.	Elison, Paul H.	Eudey, Sandi	Fassauer, Juan	Finley, Troy
Draper, John E.	Dunnam, Kay	Elliot, Judy A.	Eustace, Cheryl	Fathers, Warren	Finney, P. E.
Draper, Rose	Dunson, Steve	Elliott, Angelia	Evans, C. Glenn	Faubion, B. O.	Fiore, Frank
Drezek, Casimer	Dunstam, Roland W.	Elliott, Bill	Evans, Gayle	Faulknu, George	Fiorenza, Donna
Driver, Brooke	Durham, C. E., Jr.	Elliott, Cathy A.	Evans, Gaylord	Faust, Shelley	Fipton, E. L.
Drummond, Jeff	Durham, Phillip, Jr.	Elliott, Dale	Evans, Mike	Felder, Floyd	Fisher, Alice L.
Drummond, John C.	Durham, W. W.	Elliott, David	Evans, John H., P. E.	Fellers, Jim	Fitz, Amy
Drummond, Penny L.	Durley, Joycelyn	Elliott, Robert L.	Everett, Brian	Fellers, Vicki	Fitzgerald, D. R.
Dryden, Colleen	Dussler, Larry	Elliott, Ron	Everett, James D.	Felton ¹	Fitzgerald, Jimmy C.
Dryden, G. R.	Dyer, Richard	Ellis, Barbara	Everett, Marian	Felton, Stephen	Fitzgerald, Joy
Dryden, John L.	Dyke, Angie	Ellis, Berna R.	Everhart, Vanessa	Fenley, Bob	Fitzhugh, Ken
Dryden, Kim	Eaby Ph.D., Allen	Ellis, Chad	Everitt, Stephen	Ferguson, Alan	Flake, Lonnie O.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Forrester, Arla V.	Friemel, Fred	Galvan, Teresa	Gee, Brenda	Gist, Boyd
Flemming, Brian	Forrester, Carmen M.	Frisbie, Sylvia	Galvin, Jan	Gentleman, Dorothy	Givens, A. F.
Fletcher, Marshall	Forresth, Juana L.	Fristoe, Phillip	Galvin, Jerry O.	George ¹	Glasscock, Denis J.
Flood, Ed	Forsyth, Douglas R.	Fritts, W. R.	Gamblin, Cindy	George, James P.	Glassman, Laura
Flora, Jerry	Forsythe, Cindy	Frot, Michael S.	Gamblin, Reginald D.	George, Pam	Glenn, Bobbie
Florek, Christopher	Forsythe, Robert J.	Frow, W. R.	Gamblin, Robbie	Gerald ¹	Glenn, Dori R.
Florek, Danuta	Fortenberry, Kevin W.	Fruscella, Steven G.	Gamblin, Terry E.	Gerald, Robert E.	Glenn, Greg
Florence, Nelda	Fortin, E. R.	Fry, Ann	Gamklin, Jo	Gerber, Sue	Glenn, James M.
Florentine, Susana	Fortunato, Michele	Fry, Dustin	Gampy, Reve	Gerhu, Donald	Glenn McMennamy.
Flores, A. C.	Foster, James L.	Fry, Roxanne	Ganbiel, Ben	Gervasi, Stephany	Glover, Elizabeth T.
Flores, Dora	Foster, Mary	Frymoyer, Debbie	Gance, Pamela K.	Geue, Stephen H.	Glover, Jeffrey
Flores, Mary T.	Foster, Michael H.	Frymoyer, R. D.	Gann, Dena	Ghormly, B.	Gobelin, Joanne C.
Flores, Paul	Foster, Raymond	Fuente, Gerald	Gann, Richard	Giambra, Anna M.	Goble, E. Phillip
Flores, Johnny R., Sr.	Fowler, Brian W.	Fuente, Lucille	Ganna, Denise	Gibbins, Donald C.	Godwin, Marybeth
Floris, Johnny	Fowler, Pamela	Fuitt, Bridget	Gants, Daryl	Gibre, Michael P.	Goebel, Jerry
Flowers, Gary	Fowler, Sabrina	Fullbright, Leslie	Gantt, Parker	Gibson, Gary L.	Goelizer, Richard V.
Flowers, Gussie	Fox, Betty	Fuller, Dorothy	Garcia, Dawn S.	Gibson, Glynda	Goetz, Jason J.
Flowers, Lois	Fox, Donna	Fuller, Rodney	Garcia, Gloria J.	Gibson, Janene	Goforth, Don
Flowers, Melissa	Fox, Gerald E.	Fulta, John S.	Garcia, Daniel, III	Gibson, Jill	Goldston, Rodney W.
Flowers, Penny	Fox, Laura	Fults, Becky	Garcia, Joe M., Jr.	Gibson, Joy	Golin, Truitt C.
Flowers, Timothy L.	Fox, Nelda	Funderburk, Roxane	Garcia, Peggy	Gibson, Mila	Gomez, Francisco
Fogg, Karen	Fox, Robert E.	Funsler, Sarah	Gardner, Dennis	Gibson, Ray	Gomez, Trinnie
Folley, Elaine	Francis, J. C.	Funth, J.	Gardner, J.	Gibson, Terry	Gonce, Michael
Fondau, Grant W.	Francis, James M.	Furgat, Judy	Gardner, Sheri	Gifford, James E.	Gonce, Pam
Foran, Richard D.	Francis, Robert	Fussell, Rich	Garland, John, Jr.	Giham, Jeff	Gonzale, Joe R.
Forbes, Cynthia	Francis, Velma	Fyfe, Sara	Garrett, Douglas	Gilbert, Janice	Gonzales, C.
Ford, Barry N.	Franklin, Darrell R.	Fyfe, Taylor D.	Garrett, L.	Gilbert, Melanie	Gonzales, Candace
Ford, Kim	Franklin, Rosie	Gable, Jim	Garrett, Laverne	Gilbert, Michael L.	Gonzales, Charlene
Ford, Lydia	Franks, Bill R.	Gadman, David	Garrett, Rhonda M.	Gilbreath, Betty	Gonzales, Nancy A.
Ford, Modrey	Franks, Patsy	Gadman, Lucille	Garrett, Richard D.	Gilbreath, T. J.	Gonzalez, Letisia
Ford, Pat	Frasier, S. J.	Gadola, Thcarl	Garrin, Chip	Gilbreth, Lisa B.	Gonzalez, Valery
Ford, Patrice B.	Frauberfield, Earl	Gadry, Kristy K.	Garyala, Jim	Gilderland, Morgan	Good, Patricia
Ford, Roland	Freeman, Barry L.	Gafant, Ricky	Garza, Stefanie	Giler, Johny H.	Goodell, Annice
Ford, Ronald Q.	Freeman, Warren J., Jr.	Gafford, Virginia	Garza, Veronica	Gill, Paige	Goodell, John W.
Ford, Terry	Freenan, Ward B.	Gage, Belle	Gaston, Gene	Gilley, E. Ray	Goodell, Richard S.
Fore, Terry W.	Frenayel, C.	Gage, James B.	Gates, John W.	Gillham, Janice E.	Gooden, Harvey K.
Foreman, Wesley D.	French, Bob	Gaines, Mona	Gaut, Jean	Gillis, Jerry G., Jr.	Gooden, Jerry D.
Forester, Marty	French, Perci D.	Gallegos, George	Gaven, John H.	Gilmore, Sandy	Goodfellow, Karin
Forger, Karen S.	Freshnock, Helen	Gallegos, Mark	Gawof, J.	Gilstig, Alice	Goodfellow, Phillip
Forrest, Bedford	Fresland, Ted	Galloway, Jake	Gaydez, Juan	Gimpell, Henry	Goodin, Jean
Forrest, Reva	Frey, Brenda D.	Galloway, Judy	Gazzaway, David	Gipson, Michelle	Goodrich, Leticia A.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Griffin, John R.	Hadaway, Tom	Halsted, Phillip R.	Harl, Carl D.	Hatcher, Russ
Goodrich, Robert W.	Griffin, Kathryn	Haddock, JoAnn	Haman, Bermal	Harl, Claupe M.	Hatchett, Capres S.
Goodwin, Mary	Griffin, Leslie	Hagemeyer, Jim	Hamburger, Richard L.	Harlow, Kevin P.	Hathaway, Janice
Gordon, R.	Griffis, Crystal M.	Hager, Lela H.	Hamilton, Cullray	Harlow, Tracy	Hathaway, Troy
Gore, Charles W.	Griffis, James M.	Hagerman, Sharon	Hamilton, Henry H.	Harman, Cheryl	Hatley, Paula
Gore, Shannon	Griffith, Robert, Jr.	Hagerman, Steve	Hamilton, J. M.	Harmon, Jacqueline	Havelaker, Verl D.
Goss, Tom	Griggs, Linda	Hagermi, Swanson	Hamilton, Richard A.	Harnle, Brad	Havins, Nola M.
Gougt, Paul	Grime, Jerry	Haggard, Randall	Hamilton, Roushell	Harp, Robert D.	Havron, Vivien S.
Gourley, Patricia	Grimes, Gary J.	Hahn, Gerry	Hamilton, Vivian	Harrelson, Misti	Hawke, Brad
Gower, Richard	Grimes, Paula	Hahn, Scott	Hammer, Kevin	Harris, Allen	Hawkin, Jon M.
Goze, Bartella	Grimes, Rick	Hakimi, Charla	Hammock, Barbara	Harris, Bill	Hawkins, Charles
Gozet, Luke	Grims, J. W.	Hale, Clara	Hammock, Iona P.	Harris, Carla	Hawkins, David L.
Graff, Amy	Grisbaum, F. G.	Hale, Emil	Hammuts, Michael C.	Harris, Cathie L.	Hawkins, Joe
Graham, Brenda	Grist, John	Hale, Jan	Hampton, Benjamin C.	Harris, Gary C.	Hawkins, Karen W.
Graham, Wendy	Gross, Joe L.	Hale, Jerry L.	Hancock, Janetta	Harris, Jeff	Hawkins, Kathy Jo
Graham, William L.	Grotsby ¹	Hale, Allen M., Jr.	Hand, Patricia	Harris, Lisa	Hawkins, Roger W.
Grant, Harlin	Grubbs, Sharon	Hale, Linda	Hand, Patrick	Harris, Lucille	Haye, Robbie N.
Grant, Mark	Guenero, Kristi	Hale, Shawn	Hand, Teri	Harris, Melva	Hayes, Sheila
Grant, Marlene	Guerry, Jim	Hale, William H.	Handley, Debbie	Harris, Pat	Haygood, Paul
Grant, Stacy	Gugr, James R.	Hales, Melana	Handley, Don F.	Harris, Sharon	Haynes, J.
Grantham, David	Guhl, Robert	Haley, Chris	Handley, Shirley	Harris, Timothy W.	Haynes, Phil, Jr.
Graves, Albert D.	Guildman, Robert	Haley, Janie C.	Handly, Jeff	Harris, W. J.	Haynes, Mike
Graves, Patsy C.	Guinn, Gary K.	Hall, Allen K.	Hanes, Phyllis	Harrison, H. H.	Haynie, Gary A.
Gray, David L.	Guinn, Mary	Hall, Beverly J.	Hanks, David	Harrison, J. W.	Hays, Selina
Gray, William J., II	Guleke, N. V.	Hall, Bobby	Hann, Todd	Harrison, Sue	Haywood, Mike
Gray, Jack	Gulley, Faye	Hall, Brenda J.	Hanna, A. Lea	Hart, Hali	Head, Billy
Gray, Larry V.	Gully, John	Hall, David L.	Hans, Roger L.	Hart, Jen	Heady, Susan
Gray, Rosemary	Gunning, Nathan	Hall, Helen C.	Hanson, Cindy	Hart, Mike	Healy, Jimmy D.
Greaser, Bill	Guston, Joseph G., Jr.	Hall, J. D.	Hanson, Russell	Harter, Paul	Heard, Shirley
Greaser, Melynie	Guthrie, Beverly	Hall, Jonnie	Happer, Sandra	Hartfelder, Eric	Heare, Robbie
Greear, Kenny	Gutierrez, Edward R.	Hall, James, Jr.	Harbin, Elizabeth A.	Hartwell, Jessie	Heath ¹
Green, C. E.	Gutierrez, Jonathon	Hall, Ken	Harbin, Jim	Hartzen, Charlene	Heath, Mulkey, Jr.
Green, David G.	Gutierrez, Kelly	Hall, Pamela	Harbour, Elda Z.	Harvell, Ira S.	Heave, Mark E.
Green, Don	Guzman, Gilbert	Hall, Rachel D.	Harden, Greg	Harvey, Damon	Heckman, Mark
Green, Tim	Guzman, Joseph	Hall, Russell F.	Hardin, Carri	Harvey, LaFonda	Hecto, M.
Greene, Carrie	Guzman, Marilynn	Hall, Steve L.	Hardin, Jack	Haseloff, Rod	Hedgecoln, Gary R.
Greenly, George D.	Guzman, Mike	Hall, Wesley	Hardy, Cathy	Hash, Kelley	Hedtke, Roy R.
Gregg, James	Gwen, Michael E.	Hallett, Steven G.	Hardy, Guy A.	Haskins, Chris	Heffley, Kenneth O.
Gregory, Gary D.	Gwyn, Gary	Halley, James	Hardy, Steve	Haskins, Sandra	Hefner, James R.
Gresham, Dwayne R.	Gwyn, Lynn	Halliday, Debra M.	Hare, Krystal	Hasslils, Leroy R.	Hegwer, Todd
Griego, Andrew	Gwynn, Sharon	Hallmark, Charlotte	Hargrove, Kevin L.	Hatch, Dan	Heisler, Brian

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Hernandez, Jennelle	Hill, Alan, Jr.	Holland, D. C., Sr.	Horton, Tom	Hugo, Clayton
Helalde, Joe	Hernandez, Michael	Hill, Kevin	Holley, Drew	Hough, Sandra	Hulez, W.
Helsley, Linda	Herndon, Eddie	Hill, Lori	Holley, Melissa	Houk, Randy G.	Hulquist, Heidi
Helton, Bill D.	Hernon, Den	Hill, Marianne	Hollings, Datea L.	House, Chandra	Hulquist, JoAnn
Helton, Jim	Herr, Gordon W.	Hill, Marilyn	Hollingsworth, Claud	Houssman, Genie	Hulquist, Robert C.
Helton, Phyllis K.	Herr, Wayne L.	Hill, Neil R.	Hollis, Karen	Howard, Alvin	Hulsey, Art
Helton, Virginia K.	Herrera, Alberto	Hill, Weldon E.	Hollis, Tim	Howard, Anita	Hulsey, Carl
Helyes, Vivienne	Herring, Earl	Hill, Zoe	Hollis, Tom	Howard, Barbara	Hulsey, Jan
Hemma, David	Herring, Kathleen M.	Hilletter, Jason	Holloway, Debbie	Howard, C.	Hulsey, Janelle
Hemphill, Sharon J.	Herring, Mary Ann.	Hillin, Clifford K.	Holly, Scott	Howard, Walter A.	Humanly, George
Henard, Kay	Herring, Susan	Hillman, Mike	Holm, Jay E.	Howe, Louis, Jr.	Humbert, David W.
Henderson ¹	Herron, Joan	Hillman, Teresa	Holman, Leslie	Howe, Little B.	Hunley, Sheila
Henderson, Deborah	Hester, Barbara	Hills, Charles R.	Holmes, Micah	Howell, J. Franklin, Jr.	Hunt, Darryle L.
Henderson, Emmitt	Hester, Roger, Jr.	Hincir, Debbie	Holt, George	Howell, Lynn	Hunt, John C.
Henderson, Kim W.	Hetgla, Gary S.	Hinderliter, V. L.	Holt, Jay D.	Howell, Mike	Hunt, Kraig
Henderson, LaToy	Heuton, Luann	Hiner, Amy	Holt, Jerry	Howester, Larry	Hunt, Lisa
Henderson, Mary C.	Heuton, Randall	Hiner, Arla	Holwick, Gary	Howke, Jim	Hunter, John C.
Henderson, Pat	Heyt, Carla	Hiner, Billy	Holy, John A.	Howry, Emmett, Jr.	Hunter, Roy
Henderson, Paul D.	Hferp, Paul	Hinkle, Lloyd J.	Homsly, Deborah	Hoyl, Susan M.	Hurt, Andrew
Henderson, Sandra	Hibbs, Robert I.	Hinojosn, A.	Honaker, Jean	Hoyt, Les	Hurt, Patricia
Henderson, Tricia	Hichabay, Jerry L.	Hinton, J. D.	Hond, Matthew	Hubbard, Amy	Huseman, Dwayne
Hendrick, Christina D.	Hickam, Patsy	Hintz, Douglas	Honea, Bobby	Huckabay, Wade L.	Huseman, Terry
Hendrick, Cory	Hickman, Carolyn	Hisbon, Billy M.	Honea, James C.	Huddleston, Dennis E.	Husler, James
Hendrick, Jason	Hickman, Ron	Hizzinbotham, Darren	Honea, Joseph H.	Hudson, I. A.	Hutcheson, George C.
Hendricks, Vaughn P.	Hickmott, Charles	Hodge, Bennee	Honemy ¹	Hudson, John	Hutson, E.
Hendrix, Bessie	Hicks, James P.	Hodge, Dana	Honly, Jimmy	Hudson, Murray	Hutter, Mathew B.
Hendrix, Sherri	Hicks, Michelle	Hodge, Greg	Hooker, Vicki	Hudson, Pam	Hutton, Sandy
Henke, E. J.	Hicks, Teresa	Hodge, Janet	Hooks, Wanda S.	Hudson, Richard G.	Hyatt, Katrina
Henke, Robert E.	Hielse, Jeanette	Hodge, Myrtle	Hooper, Lisa	Hudson, Richard V.	Hyde, Homer H., Jr.
Henley, Johnny	Hielt, Robert	Hodges, Carolyn	Hooper, Teri	Hudspeth, John A.	Hyde, Steve
Henning, Paul	Higgins, Dona	Hodges, Deborah	Hoopes, Chris D.	Hudspeth, Tom	Hyde, Teresa
Hennis, Steve F.	Higgins, H. A.	Hodges, Gary	Hoots, Kathy	Huff, Ima J.	Hyden, Joyce
Henry, Arlie N.	Higgins, P.	Hodges, Kent	Hoover, Darrell	Huff, Javett E.	Hyman, Kathy
Henry, C. R.	Higis, Eric A.	Hodges, Tom	Hopper, Mike	Huff, Julie	Smith, I.
Henry, Russell	Hileman, E. G.	Hoffey, Rex	Hopson, Jim	Huff, Tony	Immel, K. Jill
Henry, William R.	Hill, Barry	Hoffman, Phillip	Horn, Diana	Hugg, Lynn	Immel, Katherine J.
Henslee, Gale W.	Hill, Bradley L.	Hoglund, Kenneth	Horn, Henry	Hughes, Amy	Ingalls, M. D.
Henson, Jamie	Hill, Chandra	Holcave, Valerie	Horn, Shurlie	Hughes, Finnis	Ingerton, Sally
Henson, Ritchy	Hill, Ferrell G.	Holeman, Keith	Horne, Earl S.	Hughes, Greg	Ingle, Robert
Hernandez, Abe	Hill, Gerald	Holeman, Valerie	Horner, Jimmie	Hughes, James	Ingles, Connie
Hernandez, Aurora	Hill, JoAnne	Holland, Brenda J.	Horton, Garland M., Jr.	Hughes, Karen	Ingraham, Joanna

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Jay, Kenneth	Johnson, Eddie	Jones, Eddie	Judson, Alan	Kelley, Judy
Intusla, Sandra M.	Jean ¹	Johnson, Glenda	Jones, Eliza	Juengling, Jon	Kelley, Mike
Irnelas, H. R.	Jeans, Betty L.	Johnson, H. J.	Jones, Francis R.	Juett, Jane F.	Kelley, Ray
Irons, Kimberly	Jeans, Carl E.	Johnson, James D.	Jones, Gail	Juett, W. E.	Kelly, Pat E.
Irvin, Cindie	Jeffers, Franklin	Johnson, Jane	Jones, Garland D.	June L.	Kelsec, Carmen
Irvin, James	Jeffers, Gilbert	Johnson, John P.	Jones, Harold	Justice, Carl E.	Kelting, Kyle
Irvin, Margaret L.	Jeffers, Randall C.	Johnson, Jon L.	Jones, Joe T.	Justice, Lola	Kemmerling, Chris
Irwin, Shirley N.	Jeffers, Terri	Johnson, B. R., Jr.	Jones, Johnnie R.	Kabetzke, Melva	Kemp, Carl L.
Isaacs, Bonnie	Jefferson, Dale R.	Johnson, Raphael, Jr.	Jones, Robert W., Jr.	Kaczmarek, Andy	Kendrick, Roy
Isabell, Ronald	Jefferson, Judy	Johnson, Larry J.	Jones, Keith A.	Kaczmarek, Doris K.	Kennedy, Leslie, Jr.
Isgrigs, Nancy	Jefferson, L. J.	Johnson, Lindsey A.	Jones, Kevin W.	Kaczmarek, Doug	Kennedy, Kenneth
Isham, Raymond	Jeffery, R. B., Jr.	Johnson, M. T.	Jones, Larry	Kaczmarek, John	Kennedy, Lance
Isley, Melvin	Jenell-Massaner, Helen	Johnson, Martin	Jones, Lisa	Kaff, Patrick	Kennedy, Laureen
Isley, R., Sr.	Jenkins, Sammie	Johnson, Neta	Jones, Marci	Kahn, Bob	Kennedy, Linda
J., Richard H. ¹	Jenkins, Seger	Johnson, P. L.	Jones, Margie A.	Kahn, Martin	Kennedy, Mike
Jack, Greg	Jenks, Darren	Johnson, Patsy A.	Jones, Marianne	Kahn, Regina M.	Kennedy, R. T.
Jack, Mark A.	Jennings, Janice	Johnson, Paul C.	Jones, Mary L.	Kalka, Ruleen L.	Kennedy, Shawn
Jackovich, Anne	Jennings, Jimmy	Johnson, Perry	Jones, Melanie	Kalki, Douglas W.	Kenner, Catherine J.
Jackson, Connie	Jennings, John B.	Johnson, Randy	Jones, Patsy	Kaluzuick, Frances A.	Kenney, E. Joy
Jackson, Dan	Jens, Debra	Johnson, Robin	Jones, Paula	Karnes, Terri	Kenney, Heiadi
Jackson, Donald W.	Jenson, Howard	Johnson, Ruby	Jones, Phyllis	Karnitz, Maurice	Kenney, Mona
Jackson, E. C.	Jerm, Larry K.	Johnson, S.	Jones, Randall S.	Karr, Kennard G.	Kens, Clarence
Jackson, Elsie	Jeter, Gene	Johnson, Sylvia M.	Jones, Rebecca	Karr, Linda	Kessel, Mike
Jackson, Joe	Jeter, Terry	Johnson, Trina	Jones, Rhonda J.	Karrit, Robert	Kessler, Billy
Jackson, Mary A.	Jett, Joe S.	Johnson, Virginia B.	Jones, Richard P.	Kay, Kelly	Kesterson, Kay
Jackson, Mel	Jetter, Alonzo O.	Johnson, Woody A.	Jones, Robert	Keadle, Stanley G.	Keys, Margaret
Jackson, Phillis K.	Jewett, Jack L.	Johnston, David G.	Jones, Sandra	Kealey, John	Keys, Robert
Jackson, Sheila J.	Jewett, Pamela	Johnston, Dennis	Jones, Shannon	Keaton, C. Dean	Keyser, Louis
Jackson, Shirley A.	Jewett, Tammy	Johnston, Redell	Jones, Sharon	Keaton, Lawrence, P. E.	Keyser, Oliver
Jacob, Linda	Jimeney, Linda	Johnston, Von	Jones, Stephen	Kech, Ann	Khan, Waseem
Jacobi, B.	Jimenez, Alex, Jr.	Jolly, Steve R.	Jones, Tobi	Keck, John M.	Kidd, Robert
Jacobs, Roger	Johannsen, Paula	Jolse, Jerry	Jones, Tom	Keen, Christa	Kilarski, David
Jacobson, Lee	Johns, Keith L.	Jones, Audrey	Jones, Troy E.	Keenan, R. W.	Kilarski, Teri
James, Pavela L.	Johnson, A. E.	Jones, Barry	Jones, Valerie	Keene, Richard	Kile, Tom
James, Richard W.	Johnson, B.	Jones, Barry D.	Jones, William C.	Keith, J. M.	Killey, Everett D.
Jameson, Ann	Johnson, C. D.	Jones, Billy F.	Jordan, Toni	Keith, Jim W.	Kilpatrick, Kevin
Jameson, Joyce M.	Johnson, C. H.	Jones, C. M.	Jose, A.	Keller, Jennifer	Kimbell, Dewayne
Jamhsen, Henry	Johnson, Cathy	Jones, Carla	Joseph, E.	Keller, Ross	Kimbell, Jerald
Jan, R. L.	Johnson, Dale	Jones, D.	Joyner, Janice	Kelley, Angela K.	Kincaid, Virginia
Jappson, Ralph	Johnson, Donna	Jones, Denise	Joyner, Luther B.	Kelley, Charles H.	King, B.
Jarvis, S.	Johnson, Douglas	Jones, Donnie	Juarez, Felipe, Jr.	Kelley, John P.	King, Benjamin R.

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Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Knowles, Brent	Ladd, Max	Laursen, Chris N.	Lens, Stephen H.	Linton, Roy W.
King, Carol	Knur, K.	Lafiesta, Vincent A.	Law, Mike	Leonard, Patricia	Linville, R. B.
King, Charles	Koch, Jettie	LaFrance, M. K.	Lawgley, Marc	Leopard, Samuel R.	Lipton, E. L.
King, David R.	Kocher, Heidi	Lain, Gil	Lawler, B.	Leos, Howard R.	Lirnstad, Oleta J.
King, Henry H.	Koenig, Bobby J.	Lain, Mary	Lawler, Kelly	LePage, Neil	Lison, Terry M.
King, James W.	Koetting, Henry	Lake, H. R.	Lawler, Terry	Ler, Mike	Liston, R. R.
King, Jane H.	Kohman, Jan	Lake, Sandra J.	Lawler, Yvette	Lermon, Terri	Litho, Amarillo
King, Jerry D.	Kohn, Erwin	Laley, Shauna	Lawles, Amanda	Lester, Darlene	Little, Kenny
King, John	Kollmar, B. W.	Lamberson, Billie	Lawly, Clint	Lester, Kim	Little, Kristi
King, Lesa	Koontz, David	Lambert, Robby	Lawrence, Kevin A.	Lester, Larry	Little, Tommy
King, M. Don	Kozak, Mary	Lambert, Scott	Lawrence, Sue	Lethohers, Kevin	Loc Ba, Phan
King, Mike	Kraman, David	Lamkin, Juna	Lax, Nathaniel J.	Leverett, Lynn A.	Locke, John G.
Kinkad, Donna J.	Krantel, David	Lamkin, Nita M.	Lay, William	Leverett, Paula	Lockwood, Joe
Kinkade, Alvin R.	Krasbon, Beverly	Lampbor, Wayne	Lazzara, Debra	Leveting, Leroy J.	Loewald, Jeff
Kinzer, Bill	Kraus, Jerry	Lana ¹	Lazzara, Salvatore	Levi, Barbara	Loggins, Jack
Kinzy, Marvin	Kraus, Lori Jean	Lana, Ramon	Le, Wilson	Levy, Mike	Logsdon, Steven
Kiplie, Mark	Kreidel, James	Lancaster, Diane	Leach, Frank D.	Lewallen, Larry	Lolley, Robert E.
Kirby, Fred	Kresee, Scott	Landers, J. K.	Leake, Craig	Lewell, John W.	Lomenzo, Anita
Kirchgissne, Pat	Kritselis, Richard	Landford, George	Lear, Dana M.	Lewellen, J. R.	Long, David
Kirkland, Eyde	Kritser, John	Lane, Charles R.	Leard, Mike	Lewis, Effie M.	Long, DeAnn
Kirkland, J.	Kriyan, Charles E.	Lane, Georgiana L.	Leasure, Lanette	Lewis, Gary E.	Long, Kevin C.
Kirkpatrick, Hugh	Krumwiede, Frank S.	Lang, Carl M.	Leather, Doyle	Lewis, H. W.	Long, Russell E.
Kirkpatrick, Larry	Krupnick, Dave	Lange, Rose	Leather, Elizabeth	Lewis, Norma	Long, Rustin G.
Kirris, Tom	Kruse, Harold D.	Langford, Mathew J.	Leatherwood, Shea	Lewis, Rosie L.	Longbine, Angie
Kista, Shey	Kruse, N. A.	Langley, Gayle	Leazenby, Dorothy	Lewis, Susan	Longer, Carol
Klause, Cindy	Kuehl, Rick	Langstead, Brad F.	Lebow, Floyd	Lewis, Tracie	Looman, R. Dana
Kleffman, Angela	Kuga, Lawrence F.	Lanham, Mason	LeCrone, Stephen	Lieberenz, Don	Lopez ¹
Klingeam, Judith	Kuhler, James	Lanham, Thomas F.	Lee, Casey	Lierttk, Earl L.	Lopez, Augustine
Knapp, Clayton	Kuhlman, Nicci	Lanham, Trish	Lee, Cindy	Liggitt, Jim	Lopez, Bonnie
Knapp, Erma	Kuhn, Lavona	Lanier, Sean R.	Lee, David C.	Lightfoot, Elaine	Lopez, Chris E.
Knapp, James H.	Kuhr, Robert	Lankford, Jim P.	Lee, Gail	Lill, Cynthia	Lopez, Diane
Knapp, Kevin P.	Kumar, Subodh	Lapp, S. L.	Lee, Greg	Lill, Kandy	Lopez, Laura
Knapp, Wes	Kwoath, Carolyn D.	Larkan, Kenny	Lee, Irlene	Lill, Scott A.	Lopez, Paul
Knerr, Reinhard	Labus, Evelyn	Larson, Gary	Lee, Robert E.	Limoges, Fran	Loter, Larry
Knight, Angie	Lace, Rom M.	Lasalla, Amy	Lee, Tommy C.	Lincoln, Louie	Louis, E. W.
Knight, Johnny	Lacer, Lorene	Lassiter, Laquita	Leedy, Billy	Lincoln, Michele K.	Lovato, Roger
Knight, Kathy S.	Lackeg, L. A.	Latham, James	Lemmas, Michael	Lindemann, Kenneth	Love ¹
Knight, Michael G.	LaCruz, Richard D.	Latham, Tully E.	Lemming, John F.	Lindler, John R.	Love, Billy
Knight, Stacy	Lacufer, Sue	Laughter, E. D.	Lemoux, Grant	Lindley, Barbara	Lovelady, Cletus
Knighton, Evelyn F.	Lacy, Bob	Laughter, Steve	Len, Robert	Lindley, Sharon	Lovelady, Meredith
Knighton, Havon	Lacy, Wilford L.	Lauren, Vic M.	Len, W. R.	Lindsay, Ronald	Lovett, Yimena

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Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Maddax, Calissa	Mantel, Carrie	Martinez, Jenifer	McAdams, R. M.	McDabb, Ron
Lowe, David A.	Madison, Virginia	Manuso, Phil	Martinez, Larry T.	McAfee, John	McDaniel, Anita K.
Lowe, Lyndal B.	Madlid, Anastasio	Map, Richard	Martinez, Priscilla	McAfee, Paula	McDaniel, Jane
Lowe, Sylvia P.	Madsen, Helen	Maples, Darlene	Martinez, Robert	McAlister, Margie	McDonald, Ginger
Lower, James W.	Maes, Robert	Maram, Sharon	Martinez, S.	McAlpine, Rick	McDonald, James E.
Lowery, Claude B., Jr.	Maes, Stella	March, Chuck	Martinez, Valentino	McAnear, Monte	McDonough, M. R.
Lowney, David	Mafa, Leon A.	March, Norma W.	Maserang, Dwayne D.	McBride, Betsy	McDowell, Kevin
Lowry, Betty	Magee, Lisa	Marcum, Gene	Mason, Brandon	McBride, Dan	McDowell, Stephen D.
Loyd, Cathy D.	Mager, Roberta	Marcus, Jackie	Mason, Cheryl	McBride, Elizabeth	McDuffee, Jason
Lucas, Bruce A.	Maggi, J. A.	Mareng, Tracy	Massey, Jan K.	McBride, Geraldine	McEachern, Marla
Lucas, Randy J.	Magness, Julie	Mares, Robert	Massucci, G.	McBride, Steve	McElreath, Cherry
Lucas, Roger	Magoniak, Wayne	Mares, Virginia	Matherly, Nicki	McCafferty, Bryon	McElreath, Edna
Lucere, Jennifer	Magouirk, Beverly	Marez, Eli	Mathes, Becky	McCafferty, Kim	McElreath, Jennifer
Lucero, A. V.	Magreil, Steve	Mark ¹	Mathiasmierer, M. R.	McCaffree, James R.	McElreath, Richard
Lucero, Kristi	Mahaffee, Ernest	Mark, C.	Mathis, Darla	McCall, Jack O.	McElreath, Wayne
Lucero, Penny	Mahaffee, Ronda	Markham, Bonner	Mathis, Gala	McCandliess, Davie	McElwain, Linda
Lucero, Tom S.	Mahan, Geary	Marlow, Donnie A.	Matlock, Harold	McCann, Elizabeth	McGinger, Kurt
Luck, James L.	Mahony, Kevin	Mars, Archie C.	Matney, Kevin L.	McCarty, Ken	McGlaun, Tom
Luck-Jones, Holly	Mailhot, Donna L.	Marsh, Donna	Matter, Andrew K.	McCarty, Sue	McGowan, S.
Luera, Debie	Mailhot, Robert	Marsh, Janetta	Matthews, Andrew A.	McCarty, William	McGrath, Daniel
Luera, Dorothy	Malacara, Elena	Marsh, Pam	Matthews, Carl	McCaslin, Mike	McGwen, Brandon
Luhman, Michael	Malacara, Robert	Marsh, Patsy A.	Matthews, Richard	McClain, Catana	McHugh, Miriam M.
Luman, Gary D.	Maldonado, Ismael	Marshall, Jo Ellen	Matthews, Unie	McClair, Juan	McIntosh, Angela
Lumer, Wendell	Maldrou, Owen	Martenz, D. P.	Mauch, Brent	McClelland, Luke	McKee, Jim
Lumpkins, Benny	Malecha, Gaylord M.	Martin, David R.	Maxey, A.	McClelland, Luke C.	McKenny, James A.
Lumpkins, D.	Malecha, Juanita M.	Martin, Kathy	Maxfield, S. R.	McClenny, Mark T.	McKenzie, Helen
Luna, Horacio	Mallecke ¹	Martin, Krista	Maxwell, Gary	McColleen, Robert	McKillip, West
Luna, Kay	Mallinger, Frank E.	Martin, Lea	Maxwell, Geraldine	McCortt, Joe B.	McKinney, Evan
Lundberg, Janice	Malone, James E.	Martin, Luan	May, Bobby R.	McCoslin, Gene	McKinnon, Barry
Lutgens, Charlotte	Malone, R. G.	Martin, Michael A.	May, David	McCown, Kent & Chantel	McKinny, Josh
Lutgens, Everett	Malone, Robert	Martin, Phil	May, Mike	McCox, Mark	McKnight, B. M.
Lutz, Betsy	Malone, Sandra	Martin, Shannon	Mayes, Berkli	McCracken, Larry	McKnight, Michael H.
Lyles, Brandy	Malone, Theresa	Martin, Virginia	Mayes, Loretta	McCrary, Laura P.	McKown, Paula
Lyles, Chris J.	Malone, Thomas	Martinez, Albert	Mayfield, Terry L.	McCreary, Jan	McLain, Bryan
Lynch, Bunton T.	Malve, Mark	Martinez, Cynthia	Mayhall, James F.	McCreary, John A.	McLamb, D. D.
Lynch, Chris	Mamor, Jemma	Martinez, Dorothy	Mayhew, Wynne A.	McCullough, Gail	McLaughlin, C. E.
Lynch, Izetta	Mandt, Werner F.	Martinez, Esther	Mayo, Jeffrey S.	McCurdy, Linda	McLaughlin, Susan
Lynch, Richard L.	Mann, Cheri	Martinez, F. G.	Mays, Dona M.	McCurry, Lometa	McLaughlin, W. L.
Lyons, Gary O.	Manne, Billy	Martinez, Felipe	Mays, Joy M.	McCurry, Sherry	McLean, William T. J.
Lytle, Cathe	Manning, Bob	Martinez, J. S.	Mays, Sam		McLemore, Katie
Mackie, Carole	Manning, Molly	Martinez, James R.	Mc, Gary		

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Mendez, Rosalinda M.	Miller, Buddy	Mitchell, Michael	Moore, George	Morris, Shelley
McMahl, Ernest	Mendiola, Dora	Miller, C. J.	Mitchell, Patricia	Moore, Jeff R.	Morris, Tommy
McMahon, Fred V.	Mendoza, Hector M.	Miller, Carol	Miter, W. W.	Moore, Melvin, Jr.	Morris, Vilma M.
McMarty, Ley	Mendoza, Lydia	Miller, Doug	Moberly, Lee	Moore, Kay	Morrison, Dean
McMell, Lecishia	Mendoza, Pete	Miller, Edward L.	Mobry, Larry D.	Moore, Kevin	Morrison, Jo
McMenamim, J. K.	Mener, David	Miller, Fawn	Modewell, Weldon	Moore, Kyle L.	Morrison, Juli
McMenamin, Kyle	Mercer, Eleanor	Miller, Harrison	Moeller, Virginia	Moore, Martin W.	Morrison, Michael
McMennamy, J. M.	Mercer, William	Miller, Kaye	Moerlia, Steven P.	Moore, Mary	Morrison, Shawnda
McMennamy, Peggy L.	Merrick, Jim	Miller, Lavana	Molina, Javier G.	Moore, Missy	Morro, Allen
McMillian, Flora	Merrick, Joyce	Miller, Lillie P.	Molly, Gary	Moore, Robert	Morrow, Don
McMurry, Herbert	Merrill, Eddie D.	Miller, Lynn	Monroe, Cameron	Moore, Roland	Morta, Margaret
McNabb, Barbara	Merrill, Mildred	Miller, Marcia	Monroe, Jacque	Moore, Say Dale	Morton, Arthur R.
McNalty, T.	Merrill, Verna F.	Miller, Mark	Monroe, Willie E.	Moore, Stephen R.	Morton, Brenda
McNeice, Sharon	Merriott, Celia	Miller, Oth.	Monson, Katherine	Moore, Vikki	Moseley, Cynthia
McNertney, B. J.	Merriott, Mikey	Miller, Russell E.	Monson, Scott	Moraniec, Tony	Moseley, Dennis T.
McNutt, Jimmy	Merton, Vernon O.	Miller, Vernon W.	Montague, Hazel	Moranied, Thomas J.	Moseley, Neil
McPherson, Anita L.	Merwether, Ken	Millikin, Margaret	Montague, Jackie L.	Mordie, Ramona M.	Mosely, Jon
McPherson, Joella	Mesa, Louie	Millon, Ricardo	Montano, Roberto	Morehead, Mike	Mosley, Terry D.
McQuay, Bekki	Mesio, Julia Z.	Mills, Diana	Montano, Willy	Moreland, Douglas	Mosly, LaVonda
McReece, Casey	Metcalf, Dean	Mills, J.	Montes, Elliot J., Jr.	Moreland, Morris	Moss, Don
McReynolds, Glenda	Metcalf, John E.	Mills, J. P.	Montgomery, Ebb	Morgan, Billy	Moss, Ellen
McSpadden, Dick	Metz, Curtis G.	Mills, Todd N.	Montgomery, H. C.	Morgan, Buddy	Moss, Jean
McVean, Ronald C., Jr.	Meyer, David	Mills, Trenton E.	Montgomery, Kyle	Morgan, Cathy	Mota, Juan A.
McWilliams, Karen	Meyer, John A.	Minden, Marcella	Montgomery, Pamela	Morgan, Connie	Mounce, Anita
McWilliams, Mark	Meyer, Thomas O.	Mings-Spindle, Sherry	Montgomery, Rouena	Morgan, Dale	Moytt, Richard
McWilliams, Steve	Meyer, Wesley	Minor, Gary	Moody, David	Morgan, Dan R.	Muelleny, Mark
Meadlock, Jon	Meza, Antoinette	Minter, Jeff	Moody, Evelyn B.	Morgan, K.	Mulber, Guy
Meadows, Sharon	Mibel, Edward	Minton, W., Jr.	Moody, Robert W.	Morgan, Kip	Mulkey, Jerrel R.
Mechenbier, Mark	Michaels, David	Miranda, Justin S.	Moon, Lanae	Morgan, Loyd	Mulkey, Sharyn
Medford, Tim	Michaels, Jo	Miranda, Ann K.	Mooney, Penny	Morgan, M.	Muller, Gary L.
Medley, Elva	Mickey, Brack	Mirels, Mary L.	Moore, Arthur D.	Morgan, Melissa J.	Mullins, Celeste P.
Meeks, Debra	Mierer, Byul	Miskimen, Michelle L.	Moore, Bellie J.	Morgan, Rey	Mullins, Emma
Meier, James S.	Miken ¹	Mitchell, Annette	Moore, Chelsea	Morlsie, Richard	Mullins, H. A.
Meier, Stacey L.	Mikliostes, Danny	Mitchell, Brad	Moore, Chris	Morren, Garry	Mullins, Lisa
Meixner, Joan	Milburn, Nancy	Mitchell, Donald L.	Moore, Connie	Morris, Allen L.	Mullins, Mary
Melby, Gary	Miles, E. A.	Mitchell, Erma	Moore, Darren G.	Morris, Clayton L.	Mullins, Ralph
Melear, Francie A.	Miles, Tony	Mitchell, Genevieve	Moore, Darrold G.	Morris, D. M.	Mullins, Rhendy
Melton, Jim	Miljan, Mary	Mitchell, Glen A.	Moore, Deborah K.	Morris, Jackie D.	Muncy, Nancy
Melton, Mike	Miller, Barbara	Mitchell, Jerry	Moore, Donald L.	Morris, Jerry A.	Mundell, O. A.
Mendez, Isaac G.	Miller, Belinda K.	Mitchell, Kris C.	Moore, Doris	Morris, Martin	Mundell, W. R.
Mendez, Mark	Miller, Brian	Mitchell, Lonny	Moore, Gary D.	Morris, Sandy	Munlores, Tim

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Nelson, Jose L.	Nomelli, Nicki	Oliphant, V. H.	Pace, Jeff L.	Parrie, Walter
Murray, Bill	Nelson, Pam	Nones, Lewis W.	Oliver, Carol	Pacheo, Nancy	Parrish, Al
Murray, George	Nelson, Pat	Nordyke, Steve	Oliver, Catrise	Pachla, Catherine M.	Parrish, Gary V.
Murray, Tammy T.	Nelson, Wanda	Nore, Terry	Oliver, Celestine	Pack, Callan	Parrott, Sandra C.
Murrow, Sanford J.	Nemoede, Ronnie	Norman, Joe A.	Oliver, Dan	Packard, Jana	Parson, James
Musick, Moira S.	Nenin, Don	Norrell, George B.	Oliver, Dominique T.	Packer, Rosezetta	Parsons, Mary Y.
Musslewhite, David	Nester, David C.	Norris, Howard	Oliver, Kerry	Padilla, Judy M.	Parton, Kristin P.
Myer, Jimmy	Neumann, Cindy	Norris, Kim	Oliver, Elmo, Sr.	Padilla, Michael J.	Pascal, Brenda
Myer, Robert D.	Nevins, Cynthia	Norris, Tracie	Olives, Patrick A.	Pair, Glenda L.	Passmore, Christopher N.
Myers, Doris M.	New, Ginger	Norsaman, Francis W.	Olsen, Joe C.	Palacio, Cathy	Passmore, Robin
Myers, Jerry	New, Josh	Northrop, Betsy	Olson, Connie	Palacio, Faye	Pat, Glenn B.
Myers, Pam	New, L. E.	Northrop, D.	Onccan, Dorinda L.	Palacio, Mark E.	Pate, Shelia
Mylanta, David	Newfield, Debbie	Norton, Bill	Onelus, Wanda	Palcock, Mike	Patrick, Pat
Nabb, Sheba	Newkirk, Norma	Norton, W. N.	Opitz, Steve	Palmer, Jade	Patterson, Ed
Nail, Anne H.	Newman, Chris	Novak, J. D.	Or, Suttam	Palmer, Nita	Patterson, Gwen
Nance, Bonnie L.	Newman, Mike	Novak, Vicky	Orcutt, Jim T.	Palmet, Michael	Patterson, Steven
Nance, Gene	Newton, Jack	Nowak, Bob	Ornela, Richard	Panbrat, Elizabeth	Patterson, Matt
Nance, Roger A.	Ngley, Russell	Nowak, Mary	Ornelas, Pamela J.	Panell, Denzal	Patterson, Tom R.
Nanesf, Daphne	Nguyen, Tuyet	Nugent, Rod	Orneles, Donna	Panthers, Don	Patts, Charles
Napier, S. L., Jr.	Nichelson, Laura	Nugerton, R. R.	Orr, Albert	Papp, Attila G.	Pawal, Christopher
Nava, Barbara	Nicholas, Dwain C.	Nuna, Clyde A., Sr.	Ort, C.	Papp, Joseph S.	Paye, Robert W.
Nava, Leroy	Nichols, Dennis C.	Nunez, Debra	Ortega, Elia	Parfait, K.	Peak, Jackie
Navarrete, Adrian	Nichols, Walter	Nunley, Jim L.	Ortega, Henry	Parge, Earl W.	Peal, John R.
Navarrete, Ismael	Nicholson, Gareth J.	O'Brien, Inge	Ortega, Michell	Parge, Kent R.	Pearce, Jim Bob
Navarreth, R.	Nicholson, Gil	O'Brien, Pat	Ory, Marie J.	Paris, Karen	Pearson, Carol A.
Navarrette, Beverly	Nicholson, Laura	O'Dell, Johnnie	Osborn, Gordon	Paris, R. E.	Pearson, Marvin
Navola, Gina	Nickel, Robert	O'Grady, Pat	Osborn, Judy	Park, Jerrod	Pearson, Susie
Naylor, C. K.	Nickels, Angela	O'Hair, Shellie	Osborne, Alton Z.	Park, Linda	Peddy, Sharon
Naylor, Keltor B.	Nickels, Connie	O'Hara, Karen	Osborne, Kenneth W.	Parker, Barbara	Pederson, Tim
Nayola, Hilario V.	Nickerson, Jerry	O'Kelley, Cecil E.	Osly, Jerry L.	Parker, Carolyn	Pedigo, Roy G.
Neal, Kellie	Nickerson, Norma	O'Kelly, Gene	Ott, Richard A.	Parker, Dudley	Pedroza, Mitzi
Nebhut, Gary	Nickerson, Roger	O'Tanger, Betty	Ottoson, William	Parker, James L.	Peery, Paula
Neck, Maureen	Nickles, Nancy	Oberle, Kaye	Overlin, Karon	Parker, John	Peiur, Kenneth
Neda, James R.	Nife, Nelson	Oberle, Larry	Overto, Tammy	Parker, Kimberlee K.	Pekins, Sam
Neece, Norman W.	Nivena, Tom	Oden, Farrin C.	Owen, John F.	Parker, Leroy	Peller, Jan
Needham, Syrena	Nixon, Leta	Oge, David K.	Owens, Ben	Parker, P. J.	Pellerin, Margie
Neel, Larry	Nokes, Denise	Oilon, Charles	Owens, Berle	Parks, Billy D.	Pelton, Angela
Neely, Jean	Nolan, Louis	Okerson, Ronnie	Owens, Delores J.	Parks, Melissa	Pelton, G. K.
Neill, Dan	Nolan, Richard M.	Olguin, Wade	Owens, Juanita B.	Parks, Pam	Pelton, Wayne
Nelson, Jeanette	Noland, Bill	Olightent, Carol E.	Owens, Sally	Parrack, Phil	Pendleton, Ida
Nelson, John	Nolen, Rosemary	Olinger, Melvin	Pace, C.	Parrie, Mary	

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Phillips, Carol	Poer, David	Powers, Kyle	Purviance, Tim A.	Rauquel, Lupe
Pendleton, Kim	Phillips, Casey	Poer, David G., Sr.	Powers, Pearl	Pushong, Suzan L.	Rawley, Marty
Penn, Arturo, Jr.	Phillips, Gary D.	Poindexter, Jeff	Powles, Chad	Puton, Kyle	Rawlin, Marty
Pennal, Hugh A.	Phillips, Harry H.	Pointer, Michael	Poyner, Ruthie M.	Quackenbush, W. M.	Ray, Andy
Pennal, Novelle	Phillips, Herman	Poirot, James	Poynor, Curtis L.	Quality Service &	Ray, J. D.
Pennington, Maggie	Phillips, J. O.	Polk, Jacque	Prather, Dump	Supply, Inc.	Ray, Richard L.
Pennon, Cynthia	Phillips, Joe	Polley, Les	Prather, Linda	Quan, Deborah S.	Ray, Roger
Percival, Richard	Phillips, Leslie	Polrado, Charlotte	Prather, Mark	Quenstone, Jean	Rea, David
Peres, Joe	Phillips, Margaret	Pomeroy, Jan	Pratt-Mullins, James	Quin, A. C.	Read, Weldon P.
Perez, Roseann	Phillips, Ralph A.	Pomeroy, Steven	Preiss, Alden J.	Quine, David	Ream, Aleta
Perez, Vidal	Phillips, Ross	Pompa, David	Prew, Ronald	Quintana, Telis B.	Ream, Jasmen C.
Perkins, Bobby	Phillips, Sandra	Pompa, Raul	Price, Denise	Quinto, Al	Ream, Joe
Perkins, Britt	Phillips, Vicki	Pompa, Ruben	Price, H.	Quinto, Jacki L.	Reams, Cary
Perkins, Connie	Phinny, Ronald	Pond, Deanna	Price, Teresa J.	Quinto, Peggy	Reasoner, David
Perkins, Dianne	Pickering, Alice	Pool, David	Pride, Katrina	Rab, Phil	Reaves, Gary W.
Perkins, Jeff	Pickett, Donald	Pool, Patty	Priest, James	Race, Dawn	Rector, Rita L.
Perkins, Kathy	Pickett, Gale	Pool, Willie	Printiny, C.	Rachels, Beverly	Reda, Dan
Perkins, Lovey J.	Pico, Tina	Poole, Dawna	Prise, Glynn	Rack, Robert E., Jr.	Reda, Rachelle
Perrin, Glenn	Pierce, Gail	Poole, M. R.	Pritchett, Palm	Rad, Daryl	Redd, Jan
Perry, Beth	Pierce, Kenneth	Poore, Everett E.	Proby, Juareen	Rael, J.	Redman, Loretta
Perry, Bobby K.	Pierce, LaDena	Pop, Johnny D.	Proctor, Betty	Rahis, Gary	Redman, Rick
Perry, Christina	Pierce, Robert J.	Pope, Danny B.	Proctor, William E.	Rains, John	Reece, Ted
Perry, Danny R.	Pierce, Travis	Pope, J. R.	Proffer, Lyndon	Raleigh, Margaret	Reecer, Vickie
Perry, David	Pierson, Maurice L., Jr.	Pope, Linda M.	Pruchard, J.	Raleigh, Willie	Reed, Ava
Perry, Janice	Pikula ¹	Porter, John	Pruett, Billy J.	Ralhin, J. T.	Reed, Carl
Perry, Lois J.	Pillard, Susan E.	Porterfield, Dayle	Pruett, Eleanor	Ralston, Mark	Reed, Chris
Perry, Metzi	Pillsbury, Tim	Portier, J. E.	Pruitt, Jen R.	Ramirez, Christie	Reed, Debbie
Perry, Theresa	Pingel, Charlotte	Pos, Stanley	Pryor, Jack	Ramirez, F. B.	Reed, Dennis S.
Perry, Vicki	Pink, Cheryl	Poteet, Steven	Pryor, Walter	Ramirez, Juan	Reed, Garry A.
Petterborg, Jeri D.	Pinkston, Jane	Pott, Jack W.	Przilas, Colette	Ramirez, Margie	Reed, Laura
Pettit, Terry	Pirkle, Yvonne	Potts, Kenneth B.	Ptashne, Lola	Ramirez, Morris B.	Reed, LaVada
Petty, Faye L.	Pittman, Bill	Poundexter, Debra	Ptashne, Paul	Ramirez, Rene	Reed, Linda
Pey, Randy	Pittman, Dean	Pounds, Carol	Pugh, Tom	Ramirez, Rodney	Reed, Madonna L.
Pgeatt, Margaret A.	Pittman, Michael C.	Pounds, Kenneth	Pullman, Mary	Ramirez, Taryl	Reed, Marjorie
Phagan, Carl J.	Pitts, Henry D.	Pounds, Michael	Pullman, Walter R.	Ramiro ¹	Reed, Michael S.
Pham, Huynh Van	Plaster, Ronnie J.	Povert, James L., Jr.	Pulse, William L.	Ramn, Eddie	Reed, Wayne
Phansana, Sawang	Platt, Paul	Powell, Amy	Pulsifor, Shawn	Ramos, Lennet D.	Reed, Y.
Phelan, Patrick	Pleasant, Robert P.	Powell, Bruce L.	Punkston, Robert	Randall, Mark	Reele, Jean W.
Phele, Wayne C.	Plemons, Pamela	Powell G.	Purcell, Charles M.	Randolph, Matthew M.	Reep, Jack
Phelps, Judy	Pletcher, Kristin	Powell, Mark W.	Puroff, Chris A.	Rasberry, Barbara	Reese, Edwin E.
Phelps, Ryland L.	Plunk, Olon	Powers, Faith	Purviance, Marcie	Rasmussen, Angelia	Reeves, David

¹Legible portion of commentor names appear in this table.

Table 1.2-8. Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued

Amarillo (continued)	Richardson, Gary	Roach, Peggy	Rodriguez, Elizabeth	Round, Gerald E.	Rut, John
Reeves, Leslie	Richardson, Karen	Roadstof, Robert K.	Rodriguez, Paul	Roush, Dale	Ruth, Emerson K.
Reeves, Shirley	Richardson, Vaughn E.	Roan, Tim	Rodriguez, Rene	Roush, Dean A.	Ruthardt, R.
Regan, Joseph S.	Richerson, Carla	Robards, Larry	Rodriguez, Steve	Rousset, George L.	Ruvolo, Garry
Reid, Anne A.	Richey, Barry	Robbins, Adam T.	Rodriguez, Tawnya	Rousset, Maria C.	Ruzich, Bobby L.
Reid, Don R.	Richey, David	Robert, James M.	Rogers, Allen W.	Rowe, Robert	Ryals, Charles
Reid, Jim	Richmond, Robert C.	Robert M.	Rogers, Carla J.	Rowland, Phylecia	Ryan, Marci
Reilly, Sean	Rick, Shane	Roberts, Allen J.	Rogers, Gary	Roy, Marjorie	Ryan, Mike
Reining, Carol	Rickstrew, Velda	Roberts, Cara	Rogers, Jimmy C., II	Royal, Johnnie	Ryan, Willie
Remans, Tarenda	Rickwark, Sahra	Roberts, Doug	Rogers, M. J.	Rud, Vern L.	Ryder, Earl A.
Rendon, Daniel L.	Riddle, Diana L.	Roberts, Kevin D.	Rogers, Mark J.	Rudd, Barbara F.	Ryder, Earl A.
Rendon, Jake	Riddle, Evelyn G.	Roberts, L. K.	Rogers, Martin	Rudd, Miranda	S., Ricky ¹
Renfro, Frank	Riepma, Helen	Roberts, Larry D.	Rogers, Melvin	Rudder, Connie	Saadeh, Constantine
Renteria, Dedra	Rigdon, Mary	Roberts, Margaret	Rogers, Patrick	Ruddy, Karen	Sachse, B. J.
Renteria, Albert D., Jr.	Riggle, Betty I.	Roberts, Nancy	Rogers, Ralph D.	Ruddy, Victor	Sackretter, Stacey
Renteria, Ladonna	Riggs, Dale A.	Roberts, Paul A.	Rogers, Robert R.	Rudgy, Linda	Sadesky, Raymond A.
Renteria, Tina	Riggs, Steven	Roberts, Richard	Rogers, Shane	Rue, Michael W.	Saenz, Armando A.
Renturia, Nadine	Rigs, T.	Roberts, Thalarid M.	Rogers, Sharon	Rufenacht, Sonja	Sahnai, Tom
Reurce, Eugene	Rikac, Frank	Robertson, Cheryl	Rogers, Thelda	Rufus, Bruce	Sain, D. R.
Reyes ¹	Riles, Stephen	Robertson, Deloris	Rogers, Tommy E.	Ruggles, Audrie	Sakot, Jarne
Reyes, Deangelo	Riley, Catherine	Robertson, K.	Rogers, Tonya	Ruggles, Ola Faye	Salage, J. A.
Reyman, Marla	Riley, Jeffrey	Robinson, C.	Rohane, Jerry	Ruiz, Joe A.	Salajar, Leo
Reynolds, Carl	Riley, Kent D.	Robinson, Carol A.	Roland, Tonya L.	Ruland, Jackie	Salazar, Esther
Reynolds, Debra	Riley, Rusty	Robinson, Cristal	Rollins, J. M.	Rulefus-Hatchett,	Salazar, JoAnn
Reynolds, Gloria	Rimball, Rame J.	Robinson, Jennifer	Rollins, Tracy	Marie L.	Saldaia, Gilbert W.
Reynolds, Harley	Rinehart, Donnie	Robinson, Scott	Romero, George	Runnels, Nancy	Saldivar, Carlos
Reynolds, Kenneth R.	Rinella, Joe	Robinson, Tamara	Romo, Jesse J.	Runul, B.	Saldwin, Cindy
Reynolds, Kevin P.	Riney, Lillian N.	Roblez, Mary	Ronald ¹	Rus, Leonard	Salk, Bryan
Rhea, Linda	Ringbaru, Nillie	Robuso, Terrie	Roof, Ronnie	Ruse, George R.	Salley, S. Dan
Rhoads, Don	Riojas, Daniel	Rockery, Susan	Rosale, Michele	Ruse, Susan	Salter, A. L.
Rhodes, Danny	Rios, Shana	Rodarte, Isaac, Jr.	Rose, Diane	Rush, Dan	Samples, Johnny M.
Rhodes, Diane	Rippy, Carol A.	Rodarte, Rachel	Rose, Diane J.	Rush, Edith	Sanchez, Dale
Rhodes, Nathalie	Rippy, D. J.	Roddahl, Dorothy N.	Rose, Gregory L.	Rusk, E. A.	Sanchez, Daniel R.
Rhyme, Tammy	Rippy, O. G.	Roddahl, Jeff	Rose, Jody	Rusk, Ray	Sanchez, Elvira
Rice, Michael	Rising, William	Roderidle, Robby	Roslada, Clarence	Russell, Barbara	Sanchez, Louis
Rice, Ronna	Risley, Lloyd V.	Rodilla, Jesus	Ross, David K.	Russell, Bob	Sanchez, Richard
Rice, Sherrie	Ritchie, Louis	Rodin, Donna	Ross, Randall L.	Russell, E. G.	Sanchez, Rojelio
Rich, Karla J.	Rittenh, Joe	Rodin, L. W.	Rossiter, Len	Russell, Kristi	Sanchez, Theresa J.
Rich, Terry L.	Ritter, Debbie	Rodin, Verna	Roth, Robert A.	Russell, Linda	Sancid, Anthony
Richard, John C.	Rivers, Dee S.	Rodin, Wayne A.	Rothe, Bill	Russell, Pam	Sandefur, Larry
Richardson, Benny R.	Rleu, Jon S.	Rodriguez, Eliseo	Rough, Marsue	Russell, T.	Sanders, A.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Schmidt, Michael S.	Selman, Lucille	Sheriff, J. W.	Sims, Freeda	Smith, Brenda N.
Sanders, Anderson H.	Schneider, Arthur	Sena, Anthony	Sherman, Stuart	Sims, James	Smith, Carla
Sanders, Donna	Schnieck, LaDonna	Sena, Pat	Sherwood, Nellie	Sims, Kenney	Smith, Cindy
Sanders, Eddie	Schogh, M. J.	Sena, Steve	Sheth, Raj O.	Sims, Louise	Smith, Clif
Sanders, Erin	Schomberg, Joy	Sennelbeck, Bice	Shields, E. S.	Sims, Stoney	Smith, Dani
Sanders, James	Schrader, B.	Septon, Joe	Shields, Larry	Singh, Dinya	Smith, David L.
Sanders, Donald R., Jr.	Schuelke, Rhonda	Sepulveda, Carlos A.	Shina, Terral	Singleton, Andy	Smith, DeJay
Sanders, Judy	Schuler, Jed, Jr.	Serran, Rocky	Ship, Shelli	Sisco, Robert H.	Smith, Dicky
Sanders, Kim	Schuster, J. E.	Session, Hugh	Shipman, Donn	Sisemore, Trent	Smith, Don
Sanders, Monroe	Schutz, Deannie	Sessions, Trude	Shipp, Lori	Sisemore, Trish	Smith, Donnie
Sanders, Perry A.	Schway, Tim	Setapen, James and Carol	Shirly, Herman O.	Sisneros, Luis U.	Smith, Dwight L.
Sanders, Ronald D.	Scott, Brenda F.	Sewal, Russell	Shoels, Arthur	Sittenge, Michele	Smith, Erma L.
Sanders, Sandy	Scott, David	Sexton, Randy	Shores, Connie	Sizemore, Marsha	Smith, Gerry
Sandorral, Cris T.	Scott, J.	Sgen, Mike	Short, Everett	Skidman, B. D.	Smith, Grant
Sandoval, Jimmie, Jr.	Scott, Joyce	Sgiderouiz, Carolyn	Short, S. K.	Skinner, Robert M., Jr.	Smith, Guy
Sandra, A.	Scott, Keith T.	Shackfone, Jerry	Shuffield, Richard E.	Skinner, Margaret A.	Smith, Gwen
Sanford, Barbara	Scott, Monty	Shafer, Kent M.	Shugart, Carolyn	Skorzak, Tommy	Smith, Harold
Sara, B.	Scott, R.	Shaffer, Edward	Shumaker, D. E.	Skrabits, Frank C.	Smith, Herman W.
Sarah, Lynn	Scott, Sharon	Shaklee Board, Tammy	Shurbet, Robin	Skypala, Cindy	Smith, Howard S.
Sarrah, Richard S.	Scott, Tabot	Shaltry, Jon L.	Shuttleworth, Robert J.	Skypala, Greg	Smith, James A.
Sarrit, Donnie	Scott, Tommy R.	Shannon, Kelly	Sicola, Tony	Slagh, Carolyn	Smith, James E.
Sasueda, Mary A.	Scott, William C.	Shannon, Nicole	Siddert, Paul	Slattery, Barbara	Smith, James M.
Satterwhits, George	Scroggins, Cynthia M.	Shapy, John	Sidney, Jeffrey	Slauson, Melinda	Smith, Jim E.
Sauer, C. Edmond, Jr.	Scruggs, Alan	Sharp, Mary K.	Sidy, Michael B.	Slayton, Sherrie	Smith, Ken
Sauer, Tina D.	Scuel, Richard	Sharp, Randy L.	Sifuentez, Cathy	Slesick, Ginny	Smith, Kerri
Saunders, Janice	Seaman, Nadene	Sharpley-Prichard, Frank	Sifuenty, Richard	Slesick, Len	Smith, Kevin
Saunders, Russell N., Jr.	Seath, Gene	Shasell, Timothy	Sill, Glyda D.	Sliter, June	Smith, Larry W.
Savage, Edward L.	Sehr, Eric	Shaw, Paul A.	Silvio, Manuel	Sloan, Pam	Smith, Linda
Savage, F. Cleo	Seitz, Roy D.	Shawn, Duane	Simmon, Judie, Jr.	Sloger, Michelle	Smith, Lisa
Savage, James	Seitz, Shannon	Shead, A.	Simmons, Doris	Smalley, Melissa	Smith, Loren D.
Savage, L. Faye	Seitz, Sue	Shead, Dickie J.	Simmons, John	Smallwood, Kelly	Smith, M.
Savage, Lewis M.	Selbing, Clinton	Sheble, Timothy	Simmons, Judson	Smart, Diana	Smith, Mel
Savage, Roy	Selby, Jerry	Shee, Marcie F.	Simmons, Terese	Smart, Kenneth D.	Smith, Michael E.
Scales, Joe	Selby, S. C.	Sheets, Jeff	Simms, Kenda J.	Smart, M.	Smith, Nancy
Scates, Shirley	Self, Darla	Sheffield, Loyd L.	Simms, Tim	Smiley, C.	Smith, Patty
Scheetz, John	Self, Joe	Shelton, Eva M.	Simons, Jay	Smiley, Randy	Smith, Paul
Scheller, Jack	Self, Mark C.	Shelton, Evelyn	Simpson, Hermis P.	Smiley, Rick	Smith, Randal C.
Scheller, Kerry	Sell, Garland D.	Shelton, Johnnie K.	Simpson, Nancy	Smith, Albert A.	Smith, Richard V.
Scherer, Susan E.	Sell, Sharon	Shepard, Harrison	Sims, Billy A.	Smith, Arlin	Smith, Rick
Schieffer, Kathy	Sell, Tony	Shepherd, Mike	Sims, Carol A.	Smith, Bill J.	Smith, Rick D.
Schlegel, Randy	Selman, J.	Shepherd, Sally	Sims, Clark G.	Smith, Bobby	Smith, Ricky

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Speech, Carl B.	Stapp, Dale	Stevens, Robert A.	Stowers, Kelly	Sumna, R. O.
Smith, Robert	Speelman, Herbert W.	Stapp, Renee	Stevens, Ted	Straham, Shirley	Sumner, Jennifer
Smith, Ruby	Spence, Robert C.	Stapp, Renie	Stewart, Beth A.	Strain, LeAnn	Sumner, Mabelle
Smith, Sandra	Spencer, Gene	Stare, Suzy	Stewart, Daniel C.	Straley, Kimbra R.	Superdock, Tracy L.
Smith, Sharon B.	Spencer, Linda G.	Starfield, Martha	Stewart, Jimmy	Stramp, Sally	Supina, Larry
Smith, Shirley	Spencer, Tom	Stark, Emil	Stewart, Margaret	Stran, Glenn W.	Susan ¹
Smith, Soila	Spier, Kathy	Starky, Dedi	Stewart, Rachelle	Strange, Joe M.	Sustaita, Diana
Smith, Syvil N.	Spiker, Gregory M.	Starr, Walter	Steyn, Robert B.	Straughnety, Kurt L.	Sustaita, Ralph
Smith, Terri	Spiker, Maxine	Stater, Brice	Stickrel, William J.	Straus, LaRayma	Sustanta, Daniel R.
Smith, Tommy	Spiker, Rick	Stater, Lavonna	Stidd, Kenny, Jr.	Streeter, Mary	Sustante, Rick
Smith, Vince	Spine, Alvin F.	Stauder, T. J.	Stidham, David C.	Streu, Oliver	Sutton ¹
Smith, Wanda	Sprague, Mary	Stauffer, Becky	Stiles, Charlene	Stroud, David	Sutton, Julie
Smithee, Jason W.	Spray, Robert L.	Stautzenberger, P. R.	Stine, Robert	Strouse, Beatrice	Swader, H.
Snead, Ron	Spring, Shawn W.	Stebbins, Christine	Stingley, Nona	Strouse, Eugene E.	Swafford, Connie
Snel, Jerry D.	Springs, Elaine S.	Stebbins, Jeff	Stinnett, Jim	Stuart, Leonard C.	Swafford, Stephanie E.
Snell, Craig	Sproul, Elizabeth A.	Steebill, Linda	Stins, Edith	Stubben, Alice	Swaim, Patricia
Snider, Lewis F.	Stacey, Horace	Steele, Bobby	Stinson, Melody	Stubben, D. J.	Swaim, Shirley
Snow, Eddie	Stacy, Melody	Steele, Mary E.	Stinson, John, Jr.	Stubblefield, Peggy	Swain, Billy D.
Snyder, Carolyn	Staddard, L. D.	Steele, Roy E.	Stockard, Jim	Stucky, Flory A.	Swain, Shelly
Snyder, James	Stadler, David	Steen, Jerry	Stoddard, Steve	Stucky, Charles, III	Swanson, O.
Snyder, James R.	Stafford ¹	Steen, Susan M.	Stoddard, Clint L.	Stultan, Scott	Swendell, Garry
Snyder, W. E.	Stafford, Diana	Steffens, Keri	Stoddard, Michelle	Stultz, Bob	Swicegood, Erica L.
Solano, Sona A.	Stafford, Janice	Stephen, Robert	Stoddard, Raymond E.	Stumbo, Mike	Swicegood, Steve
Somerville, John D.	Stafford, Lowell T., Sr.	Stephen, William R.	Stoeseth, Bob	Stumon, Mary	Switzer, Joseph R.
Sonifield, Hugh	Stakes, Yvonda	Stephens, Briget	Stokes, Kyle R.	Stump, Merrill	Tabor, Barbara
Soores, Carson N.	Stalcup, Sreglinde	Stephens, Clayton R.	Stone, Fay	Sturgess, Tina F.	Tabor, Clyde
Sosa, Ester	Stalk, Dennis	Stephens, Dawn	Stone, Jim	Styers, David	Tabor, Jerry
Soseber, Britt D.	Stalling ¹	Stephens, Mandy	Stone, Kenny	Styers, Karen E.	Tabor, Tom
South, Daniel F.	Stallings, Ellen	Stephens, Mary	Stone, L.	Suarez, Jesse	Tagine, Richard L.
South, Jane L.	Stambaugh, Ann	Stephenson, Carole	Stone, Richard C.	Subramonian, M. K.	Talberry ¹
Southern, Leo	Stambaugh, Stephanie	Stephenson, Connie	Storal, Eddie	Suhl, Vickie L.	Taledo, Freddie
Sowa, Paul	Stan, James R., Jr.	Stephenson, David	Storment, Bill	Suitflon, Wayne	Tallock, Nancy
Sowers, Tom	Stand, Laurie	Stephenson, Rhonda	Storseth, Barbara	Sukay, Frank K.	Talsam, Art
Spalding, Dexter	Standard, Sam	Stephenson, Sharon F.	Storseth, Barre	Sullivan, Katrinka	Tamango, Rafael
Spalding, Sandra	Standefer, A. M.	Sterling, Bessie	Storseth, Marjorie	Sullivan, Tracy	Tankesly, Fabian
Spam, Rob	Stange, Angela	Steven ¹	Stotts, April	Sullusis, Doug	Tapp, Bernie
Spangler, Terry	Stanley, Melissa	Stevens, Gary	Stout, Doris	Sultemeier, Karl	Tapp, Randy
Spanos, Jon	Stanley, W.	Stevens, Jan	Stout, J. D.	Sulton, Patricia	Tarango, Dixie
Sparks, Robert B.	Stansell, Mary	Stevens, Jo	Stout, Rhonda	Suly, John E.	Tarbox, Kathy
Spear, Lerone	Stapleton, Claudia	Stevens, Judith M.	Stout, Tonya	Summer, Cynthia	Tarro, T. Wade
Spear, Walter	Stapp, Chris E.	Stevens, Patricia A.	Stovich, Laurence	Summer, Jo	Tarter, Wayne

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Than, Phat	Thompson, Troy	Trevine, Lisa	Tyler, Ken	Vaughn, Carol
Tarver, Sallie	Thayer, Rhonda	Thompson, Vicki	Trevizo, Alonzo	Tyler, Ronnie	Vaughn, Dennis W.
Tate, Pat	Theran, Lewis N.	Thornber, Robert	Trindall, Randy	Tyler, Tracy E.	Vaughn, Horace H.
Tatum, Sarah	Thibodeaux, Greta A.	Thornberry, Misty	Tripin, L.	Uhrich, Roger	Vaughn, Ken
Taylor, Sharon	Thilodeaux, A. L.	Thorne, Don	Tripples, James	Ulch, Angela	Veitefeuille, Edward M.
Taylor, C. M.	Thipsipasom, Thip	Thornton, Lynda	Trook, Dale	Ulch, David	Velasquez, Andy
Taylor, Darla	Thomas, Amber	Thoush, Jettie	Trook, Gary D.	Unger, Eric W.	Velasquez, Tonia
Taylor, Don W.	Thomas, Brenda	Thrash, Betty	Trotter, Betty A.	Unruh, Judith M.	Velasquez, Tracy
Taylor, E. Lee	Thomas, Charlotte	Thron, Timothy G.	Troublefield, Adabeth	Upchurch, Bill	Velebil, Dana R.
Taylor, Eddie	Thomas, Douglas	Thurmon, Beth	Troutman, Mark	Upton, Cleta F.	Velky, John
Taylor, Franklin R.	Thomas, Eric Q.	Tidwell, C. E.	Troyer, Steven D.	Upton, Ricky D.	Venable, Eva
Taylor, Jay R.	Thomas, Charles S., II	Tidwell, Frances	Trujillo, Frank	Urton, Mike	Venable, Jerry
Taylor, Juanda	Thomas, Irven L.	Tiffany, Paul	Truman, Ron	Uselton, Jim	Venhaus, Bernard
Taylor, Lia	Thomas, Tommy L., Jr.	Tiffin, Floyd	Tseng, C. W.	Usrey, Grozella	Venson, Billy
Taylor, Linda	Thomas, Larry V.	Tigart, Michael D.	Tubbs, Diana	Utsey, Alan	Verna, J. Scott
Taylor, Margret	Thomas, Laurie	Tigwell, Steven	Tucker, Bill	Utsey, B. G.	Vernon, J. Bob
Taylor, Michele	Thomas, Mark	Tillman, Ronnie	Tucker, Dylan	Vadive, Paul	Verporeun, Ashley
Taylor, Randy	Thomas, Mike	Tim, Joey B.	Tucker, Janet	Valdez, Beatrice	Vertefeuille, Barbara
Taylor, Regina	Thomas, Pam	Timmons, Robin	Tucker, Jeff	Valdez, Debra W.	Vest, Kim
Taylor, Rita	Thomas, Shirley	Tinkler, Scott A.	Tugwell, Venetia	Valdez, Gloria	Veteto, David
Taylor, Ruby	Thomas, Tony	Tinsley, DeRema	Tung, Susie	Valdez, Terri	Vicker, Linda
Taylor, Shelia	Thomason, Dick	Tiodomann, Tom A.	Tunky, John	Valdy, John	Vickers, Linda D.
Taylor, Tania	Thomason, Gerald R.	Tipps, Tanya	Tunnell, Kerri	Valentine, Joe W.	Vickers, Lisa R.
Taylor, Teressa	Thomason, Seth	Todd, Frank	Tuny, Gregory	Valenzuela, Jesse	Vicki ¹
Taylor, Tim	Thomeson, Joy	Todd, Kelly	Tupin, Charla E.	Vallejo, Adrian	Vidlack, Bill
Teague, Bill	Thompson, Carrey	Tolbert, Ronnie	Turner, Beth	Valluzuela, C.	Vieth, Regine
Teague, John	Thompson, Alfred W.	Tolbert, W. A.	Turner, Cassie	Valois, Doug	Villa, Alice L.
Teague, Ruth	Thompson, Bailey	Toledo, David J.	Turner, Debbie	Valuerde, Alice	Villalon, Rosalio
Teel, Stephen	Thompson, Chuck	Tomseca, Lucy R.	Turner, Dickie W.	Van Ostrand, Robert S., Jr.	Villaneal, Trinidad A.
Teichmann, P. A.	Thompson, Dale	Tonn, Beverly	Turner, Cleveland, III	Van Scheper, Craig	Villaneil, Oscar
Telford, Carolyn	Thompson, Dale R.	Toponce, Mary	Turner, Johnny L.	Van Trapp ¹	Villasenor, Margaret
Telley, Frances	Thompson, Dick	Topper, Dena	Turner, Lorie	Van Brunt, Katherine M.	Villesent, Maida
Tenorie, Jerry	Thompson, Dick R.	Torczon, Marcus	Turner, Michael E.	VanDoran, Dustin	Villesent, Manuel P.
Terroph, John W.	Thompson, G. B.	Torres, Manuel, Jr.	Turner, Novell	Vann, Candy	Villya, Arnold
Terry, Bryan	Thompson, Jackie	Travelers Inn	Turner, Scott	Vasquez, Jennifer	Vincent, Dianne
Terry, Eddie D.	Thompson, L. O'Brien	Travis, Diane	Turpin, Billy R.	Vasquez, Vincent	Vincent, James
Terry, Ray, Jr.	Thompson, Marion	Treat, Mike	Turpin, Howard L.	Vaughan, Cindy	Vincent, Russell
Teter, Kevin	Thompson, Marzella	Tredway, Kim	Turpin, Johnny	Vaughan, Pete	Vinson, William C.
Tezak, Gea	Thompson, Michelle	Treece, Michael E.	Twombly, Randy C.	Vaughn ¹	Virder, Kenny
Tezak, Lloyd	Thompson, Mike	Trent, Dennis	Tyler, Earl C.	Vaughn, Alphonso	Vitaliani, Ernest M.
Thaggard, Carol	Thompson, Priscilla J.	Treveno, Rosa	Tyler, Jim		Vivaron, David

¹Legible portion of commentor names appear in this table.

Table 1.2-8. Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued

Amarillo (continued)	Waltermann, H. A.	Weatherly, M. Jean	Wentworth, Anne	Whitler, W.	Williams, Dan E.
Vocher, John M.	Walters, Betty	Weatherly, Nancy	Wermeich, Ann D.	Whitley, Jason P.	Williams, David
Vodgeming, Daniel	Walters, John M.	Weathers, George C.	West, George	Whitley, Kathy	Williams, David E.
Von Uetz, Gaut	Walters, Steven	Weatherne, Daniel	West, James	Whitten, Joe	Williams, Deborah L.
Voss, James W.	Walton, Cheri	Weaver, Helen	West, K.	Whittington, Steve	Williams, Dennis
Vuch, D.	Walton, Debbie	Webb, Evelyn	West, Larry	Whitworth, Seth L.	Williams, Douman
W. F. ¹	Walton, Neil	Webb, Gayle	West, Sheila	Whritenour, Glenn	Williams, Gary W.
Waddell, John	Wamsiot, David	Webb, Jeff	Westall, Steve	Wie, W. Scott	Williams, H.
Waddell, Marjerie C.	Wang, P. Jeffrey	Webb, Jerry E.	Westen, Sherry	Wieck, Jeff	Williams, Henry P.
Wade, B. J.	Ward, Gary	Webb, Ronald	Westfield, Matt	Wieck, Robert L.	Williams, Janice
Wade, Paula	Ward, J.	Webb, Sylvia	Westman, Virginia	Wiedrich, Cory	Williams, Jeffrey
Wade, R. Dale	Ward, John Q.	Webster, William	Westmorelan, Carl	Wiefong, Richard	Williams, Jerry C.
Wagner, Brenda	Ward, Paula	Weedler, Debi	Westmoreland, Faye	Wiels, Angela	Williams, Jim D.
Wagner, Kittie	Ward, Randy	Weegard, Steve	Weston, Jim	Wiems, James	Williams, Jimmy
Wagnon, Susan	Wardrell, Greg	Weeks, Shane	Wetel, K. C.	Wiginton, Tommy	Williams, Joe D.
Wagnor, Judy	Wardwell, Storm	Weems, Bill	Wetts, John R.	Wilborn, Cary D.	Williams, Judy
Wakefield, Roger C.	Ware, Arthur	Weidner, Brian	Wetut, Bill	Wilcot, Gary	Williams, Ken
Waldron, Linda	Ware, Bill	Weir, Grady	Whalen, Diana	Wilcox, R.	Williams, Laurie
Waldy, Carol J.	Ware, Richard	Weir, Mary F.	Whartey, Richard	Wilcox, Ronald D.	Williams, Levon B.
Waleigh, Colleen	Ware, Tisha	Weirneid, W.	Whately, Sheila	Wilder, Larry	Williams, Linda
Walker, B. C.	Warehime, C. D.	Weise, Bill	Wheeler, Bob	Wiley, Russell C.	Williams, Michael L.
Walker, Billie	Warehime, Sandy	Weiss, Chris	Wheeler, Deanie E.	Wilhelm, D. R.	Williams, Myra
Walker, Charles D.	Waren, Gary	Welch, Charles	Wheeler, Judy	Wilhelm, Van	Williams, Pat
Walker, Cindy	Warren, Billy G.	Welch, Charlotte	Wheeler, Kent	Wilkas, Elizabeth	Williams, Tia
Walker, DeAnna	Warren, Bridget M.	Welch, Gregory W.	Wheeler, Scott	Wilkes, Robert C.	Williams, Tish
Walker, Ronnie	Warren, Elizabeth	Welch, Linda	Wheeler, Sheri	Wilkins, Wayne	Williams, W. Wayne
Wall, Brad	Warren, Jeff	Welchlen, Todd A.	Whetzel, Randy	Wilkinson, David	Williamson, Paul H.
Wall, Dave	Warren, Jon L.	Welk, Barbara	Whicker, L. V.	Will, David	Willingham, C.
Wall, Pete	Warren, Judy	Weller, Jimmy C.	Whipple, Carolyn G.	Willard, Ann	Willis, Angie
Wall, Raylene	Warren, Omar	Weller, Tom	Whitacre, Johnny L.	Willborn, Terry	Willis, Howard M.
Wall, Ronald M.	Waters, David K.	Wells, Ben T.	Whitaker, Terry J.	Willhelm, Joyce M.	Willis, Katherine
Wallace, Sherita S.	Waters, Jennifer B.	Wells, Charles	White, Brian	Willhite, Martin B.	Willis, Sandra
Waller, Kathy	Waters, K.	Wells, Dee	White, Charles W.	William, Donald R.	Willmon, Linda J.
Wallesch, Shayne E.	Waters, Robert W.	Wells, Donna L.	White, Clayton	Williams, Andre	Willsey, Jay
Walling, Jimmie R., Jr.	Watson, Cheryl J.	Wells, Gene	White, Thelma	Williams, B. R.	Willsey, J. David, Jr.
Walls, James W.	Watson, Garry H.	Wells, Keith L.	White, W. S.	Williams, Betty	Willsey, Sharla
Walser, Caroll	Watson, Matt	Wells, Mary L.	White, William R.	Williams, Bill	Willson, W. J.
Walsh, Donald W., Jr.	Wattentenrger, Mack	Wells, Patsy B.	Whitefield, S.	Williams, Billy S.	Wils, Troyce
Walsh, Nichole	Weatherby, William H.	Wells, Rebecca J.	Whitehead, Don	Williams, Byrant	Wilson, Carolyn
Walter, D.	Weatherly, Dewayne	Welter, David M.	Whitfield, Betty L.	Williams, Cindy	Wilson, Charlotte A.
Walter, George	Weatherly, Karen	Weng, Dan	Whitfield, Cindy	Williams, Cynthia G.	Wilson, Eileen L.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Amarillo (continued)	Woodberry, Lorenzo	Yarbough, Shawn	Zioekowski, Jane	Thompson, Robbin L.	Britten, Jay M.
Wilson, Frank	Woodburn, Charles R.	Yarbough, Earl V.	Zrygley, Jan	Tindall, Connie	Broomley, Sony
Wilson, Gene	Woodburn, Randy	Yarbough, Jeff	Zunega, Sal	Whitron, Tom	Brown, M. Keith
Wilson, Gerald	Woode, David A.	Yates, D. A.	Zuniga, Terri	Williams, Inez	Buckner, Dale E.
Wilson, Glenn E.	Woode, Regina	Yates, Jeanie		Wilson, Betty	Burgtorf, Annette
Wilson, Howard	Woods, Angela L.	Yeary, Bret	Borger		Caldwell, Teresia
Wilson, Ken	Woods, Anita Y.	Yerslen ¹	Alexander, Brain G.	Boys Ranch	Calhoun, Russ
Wilson, Kerri D.	Woods, Craig	Ynojosa, Joe	Anders, John	Brongleton, Patsy	Campbell, John D.
Wilson, Kina L.	Woods, Robert, Jr.	Ynojosa, Julie	Baldwin, D. L.	Crist, Andrew K.	Cargett, Rhonda
Wilson, Larry J.	Woods, Tommie	Yorger, David G.	Barringer, Bob O.		Carrea, Albert
Wilson, Laura	Woods, Virginia S.	York, Billy	Belton, Paul	Brookshire	Cervantez, Melba
Wilson, Lisa	Woodward, Larry	York, Douglas C.	Byrd, Larry S.	Griffin, Edward R., Jr.	Chapman, David
Wilson, Marilyn	Woodward, Ronnie	York, Rod L.	Carlile, Jeff		Chavez, Ralph
Wilson, Nella	Wookun, David H.	Yost, John	Deleon, Arnold	Bushland	Chris ¹
Wilson, Suzanne	Woolsy, Robin	Young, Billie	Diaz, Jerry E.	Blesson, Mike	Clark, J. R.
Wilson, Valorie	Wootton, Deborah	Young, Jeffrey P.	Drenes, David	Gillis, Melody	Holloday, Sammie E.
Wimberly, Chris	Wright, Craig	Young, Joel	Duncan, Michael	Holloday, Sam J.	Scott, Sam J.
Wingrone, Jane L.	Wright, Harold	Young, Pete	Durham, Denise	Wagner, Kenneth D.	
Wink, B.	Wright, Jennifer	Young, Radall S.	Foster, Joel B.	Canyon	Adams, Jacki
Winkle, Cassie	Wright, John	Youngblood, Reginald	Foster, Lisa C.	Adams, Jacki	Adindell, Tom
Winkler, Peggy S.	Wright, John D.	Youngblood, Robert	Hindman, Scott	Alexander, Coy	Alexander, Vernon O.
Winters, Lori	Wright, Josephine Y.	Yourer, Don	Jones, Howard L.	Alford, Charles E.	Allen, Burt
Wirdirl, Henry L.	Wright, Karl	Yuger, Jerry	Lewis, Gail	Anderson, James E.	Angelo, James W.
Wirtz, Paul	Wright, Katie	Yul, R.	Lonelu, Kathy	Avent, Brenda A.	Bain, Sharon
Wise, LaPaeslla	Wright, Lisa	Yume, J.	Looms, Martha	Baird, Jay	Baize, Todd
Wise, Michael	Wright, Louise	Zambrano, Louis A.	Luxson, Susan	Barnard, LaRue	Basher, Chad
Wise, R. David	Wright, Marianne	Zambrano, Louis S.	Marshall, Elaine	Beard, Patty	Beck, Amy
Witcher, Jones	Wright, Mike	Zamora, Frank S.	McWilliams, H.	Bell, Zachary	Blochteres, Jerry L.
Witherspoon, Dede	Wright, Muriel	Zamora, Gilbert	McWilliams, Lauri	Blyton, Anna	Brach, Terry
Witherspoon, Tara G.	Wright, R. E.	Zamora, O. L.	Mihm, Joe C.	Bray, Alice	Bray, Scott
Withrow, Taylor	Wright, Randy	Zann, David	Milner, Dale A.		
Witmne, Debbie	Wright, Robert	Zanora, Richard	Muf, Randy D.		
Witt, Scotty C.	Wright, Robert M.	Zentura, Jabut	Mullan, Bers G.		
Wolden, Monica	Wton, Don	Zerm, Ronald W.	Mullin, Bers G.		
Wood, C. A.	Wyatt, Ava	Zimmer, Jill	Neaslit, James		
Wood, Cory	Wylie, Debbie	Zimmer, Mark	Pierce, Sherry		
Wood, Flint	Wyre, Charles S.	Zimmerman, Anne	Rangel, Rudy F.		
Wood, Joe	Yaeger, Lisa	Zimmerman, John	Reed, Carrie		
Wood, Ronn	Yaksick, Judo	Zimmerman, Shirley	Rhoten, Mark		
Woodall, Vernon D.	Yald, Tony	Zinckey, Earl W.	Richardson, Mahlon		
Woodard, Jim	Yarbough, Sharon	Zint, E. H.	Schmitz, Dirk		
			Sheffirl, Jesse		
			Teimbue, Randy		

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Canyon (continued)	Meier, Alan	Usleton, Darlene	Armatrout, Sharon	Wood, Jim	Fritch
Hammons, Kendra	Moldenhauer, Jerry	Vauhilk, Eddy	Ashuntt, Larry	Wood, Mary	Beaudrie, Jhanzen T.
Harris, S. Todd	Moldenhauer, Linda	Wagner, Shawn	Awalt, George T.	Woodard, Kathy	Brinisom, Roy D.
Havran, Mike	Moulder, W. W.	Waller, Bradley	Battenfield, Glenda	Dalhart	Buchanan, V.
Hayes, Jack	Pleteka, John	Watson, Willie M.	Battenfield, Kenneth	Barber, Barbara A.	Butcher, Gaelma J., III
Henry, Bob	Podzsanny, Tim	Weaver, Willie	Bron, C. H., III	Burly, Rud	Church, Richard L.
Henry, Della	Prichard, John E.	Webb, Charles	Brown, Britt C.	Finch, Jim	Cockell, Glenn C.
Henry, Jeff	Ray, Sharon	West, G. T.	Cartwright, Jay B.	Rice, Carolyn	Dun, Sandra
Hightower, Dayna	Redden, Jim	Whipple, Leigh	Cartwright, John	Salvertt, Charles R.	Durr, Sandra
Hoffman, Wendy	Renteria, Bea	Williams, Ben	Cartwright, Pam	Dawn	Foster, A. G.
Hopson, Richard D.	Reynolds, Kay	Williams, Danny L.	Cash, Zaleta	Chambers, Kenneth L.	Foster, Charles
Howard, Rozanna	Roberts, Jay C.	Williams, Gregg	Christian, Anna	Chambers, Pat	Foster, Helen C.
Hudson, Howard L.	Rowe, Loreen	Wilson, Ross	Christian, Tom	Dimmit	Foster, Patricia
Hunt, David	Rowell, R. S.	Witt, Mary R.	Collins, Van E.	Cobb-Gregory, Dana	Hefley, Teresa
Ithaca, Jerry	Russell, B.	Woodard, Donna W.	Davis, Elizabeth P.	Portwood, Tommy D.	Herbst, Clifton D.
Jenkins, Jimmy D.	Russell, Shelly	Woodland, James S.	Eddler, V.	Vance, Susie	Jester, Gene
Jeter, Brent	Salaza, Carmen	Wynn, Susie	Ellis, Frankie	Dimmitt	Johnson, H. P.
Johnson, Jerry	Sandridge, Jay	Channing	Felund, Michael	Gunn, Billie J.	Knox, T. Shane
Johnson, Jerry D.	Saturn, Eddie	Crain, David	Ganley, Matt	Marsh, Calvin	Loftin, Elaine
Jones, Angela	Scarborough, J. D.	Dodson, Scott	Gass, Kathy	Murdock, Bobby	Loftman, Lewis
Keys, Kim	Schoenbah, Monty	City	Haler, Chester	Dumas	Mack, Bobby G.
King, Denise	Schraw, Michael	Epperson, John	Haney, Harold R.	Adams, Gloria	Mark, Bobby, Jr.
Kinney, Alan J.	Scott, David C.	Clarendon	Haney, JoAnn	Alvard, Terry	McKinney, Zella M.
Kirbet, Steve	Scott, Linda	Biddingfield, Wanda	Hatfield, Donna	Brunsan, Joe	Moore, Robert A.
Kloos, Glenn	Scott, Michael	Carter, Steve	Hugg, Rhonda	Cearly, Mike	Pickett, Troy E.
Landry, Roy	Seals, Billy	Griffin, Jim	Jones, Linda	Crafton, Mike	Piles, Earl A.
Langford, Michael J.	Sedno, Tame	Hamilton, R. J.	Knipp, A.	De Shage, Tracy	Roberts, Janet
Lard, Archie	Shepherd, Tommy	Harder, Wayne	Kraves, Jerry	Kauffman, Bryan	Satterfield, H. D.
Learcy, DeeDee	Shoemaker, Ruth R.	Hill, Kelly	Otto, Thomas L.	Larner, Thomas C.	Senett, Toby
Lema, Louis	Simon, Jim	Horn, Ellen J.	Pewell, Billy	Mulanax, Carol	Smith, Ruth
Lemon, Ron	Smith, Chester	Howard, Sue	Rutherford, L. Paul	Payne, Dee	Stevens, John D.
Lewis, Kelly	Smith, Michael K.	McAnear, Ronnie	Scott, J. C.	Puley, Jett	Thurston, Patty
Lovelett ¹	Smith, Robert F.	Pereval, C. D.	Sherman, Debbie	Reid, Tanya	Tyson, Michael G.
Lowell, W.	Stanley, Jennifer	Sell, Ann	Smith, Johnnie L.	Rie, Emmut	Viner, Angie
Magee, Destry Z.	Stevens, Jim	Thompson, Marian	Smith, Pat	Thaxton, Wanda	Wilson, Ryan
Mahli, Todd	Tallant, Johnny	Watson, Betty	Stanton, Robert	El Paso	Groom
Mahlin, Ginny	Tatum, Kathy	Winters, Gary E.	Voyles, Terry D.	Mayfield, Billy	Ashford, Jerry
Manley, Wilton	Tatum, Ryan	Claude	Weber, Mary Rose		Brillen, Gary W.
McClendor, Bud	Tinsley, Linda M.	Aduddell, Rex	Wheeler, David N.		Britten, Susan R.
McElroy, Carla	Tinsley, Michael A.		Whihkel, A.		Downs, Curtis
McGryor, B. C.	Umphery, James C.		Whitney, Robert C.		Downs, Dondra S.

¹Legible portion of commentor names appear in this table.

Table 1.2-8. *Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued*

Groom (continued)	Shahoun, Antoinetta Short ¹	Sarlen, Kenneth Smith, Paul	Freeman, E. Benal Friend, David C.	McLeod, Glenna Mitchell, Henry G.	Plainview
Jackson, Ken	Horebord	Steward, Kenny	Fussell, Lyla	Molve, Matthew D.	Tyler, Jimmy Don.
Koetting, Janice	Torbit, John P.	Stout, Bobby L.	Garcia, Frank	Neusch, John W.	San Antonio
Lewis, Millard H.	Lefors	Stroup, E. O. Jack	Garcia, Rick	Nichols, Shane	Leos, Antonie R.
Lyler, Don	Kemph, Wilbur L.	Stroup, M.	Hammer, Donald	Nix, Kent	Sanford
Martin, Christopher D.	Lelia Lake	Swaney, R. Z.	Hammer, Ronia	Nunn, Darlene	Buck, Greg
Martin, Daniel	Shields, Donald M.	Tatum, Thomas	Hardy, Calu	Nunn, Larry	Skellytown
Martin, Glenda	Memphis	Taylor, Kevin	Harfton, Janet	Painter, Johnny R.	Crow, Cathy
Martin, Sherry	Crockett, Becky	Tidwell, Cathy	Held, Leslie	Partain, Rudy L.	Crow, Harold D.
Master, Daniel E.	Meta	Panhandle	Heli, Elizabeth	Pitt, Jackie	Harris, Bill
Miller, Ila	Wright, Jim	Baker, Cindy	Henderson, L. B.	Ralston, Karla	Houghton, Greg
Moroneu, Carolyn	Miami	Batler, William	Hensley, Dan	Ranfston, Cary	McKissick, Roy B.
Stapp, Ellis E.	Juarez, Ray	Bentler, Ricky	Hetzler, Vicky	Riley, John	Stephenson, B. J.
Stapp, Ralie L.	Pampa	Boothe, G. L.	Hoffman, William W.	Rollins, Michael	Stannett
Stephens, Brent	Alva, Jack A.	Brasher, Toni Z.	Hootem, David	Rusk, Scott	Chisum, Matt
Happy	Beck, Tina	Brasher, Traci L.	Howard, Frank	Saenz, Karen	Stinnett
Bailey, Stephen	Berry, Lequeta L.	Brass, Rodney	Howard, Kelly	Smith, Dee Dee	Fike, A. L.
Collier, Edgar J.	Bleakley, David	Britten, Fred	Hurt, Laquita	Smith, Duane	Lewis, William S.
Grissom, Michael R.	Dalton, Derik W.	Britten, J. Ryan	Hutching, F. Alvin	Smith, Charles H., Jr.	Shelton, David
Johnson, Connie	Davis, Kevin	Brogger, Mark A.	Irvin, Joe	Smothermors, Tammy	Thompson, Judy
McCarley, Holly	Davis, Michael	Brown, Hank	Kennedy, Glen J.	Snow, James A.	Sunray
Moyer, Lonnie	Dull, Allan	Brown, James G.	Kinion, Charlotte A.	Spear, Kirk	How, Jean H.
Phillips, Katrina	Ferguson, Matt	Byers, Bradley	Kirkland, Cleo	Stringfellow, Pat	Turkey
Hartley	Fore, Gordon L.	Clark, Janice	Kirkland, Judith	Stroope, J.	Howard, Connie
Perkins, Shirley	French, Jan	Coffee, Vicky L.	Koenig, Colleen M.	Truman, Phillip	Vega
Hedley	Frost, Bryan	Crow, James O.	Lambessa, Aimee	Urbanezyk, Megan	Henderson, Bill
Knodes, Anthony	Hammer, Tommy G.	Crow, Peggy L.	Lane, Georgia	Vaughn, Glenn	Tanck, Leon
Hereford	Hill, Brenda	Curley, Delores	Leffel, Rick	Ware, Glenda	White Deer
Boozer, Douglas M.	Hill, Patricia	Daves, David B.	Leffew, Kimbel	West, James E.	Dominguez, Arthur
Cruz, Jordan L.	Jerome, Angie	Davis, Lauri	LeGrand, Harry	Whitehead, Randy	Downey, David
Gauthreans, Robert P.	Johnson, V. L.	Doe, Cynthia D.	Lewis, David	Willard, P. S.	Downey, Laura
Karr, Donald	Keller, Gary	Don ¹	Littan, Brenda	Williams, Kenny	Mapers, Billie R.
Katth, Chris	Noel, Jerry N.	Eagle, Kent	Littan, Max	Wilson, Bill	Maple, Sam
Manning, Ellen	Ramirez, Ernest	Elder, Michael E.	Logsdon, J. L.	Wiseman, David E.	Martin, R. E.
McDaniel ¹	Raulston, K. R.	Eller, Rebecca G.	Lord, Mark	Witt, Toni	McAnear, E. C.
McDaniel, Gene	Redeemer, Wanda	Elliott, Cody	Mansel, Donald H.	Woodland, N. E.	Milton, S.
Ramirez, Roger	Robinson, Frank	Ewing, Corey	Mayfield, E. G.	Woods, J. M.	Nicholson, Don
Rivera, Eliseo		Fleming, J. L.	McDonald, David E.	Woods, L.	Norton, Becky
Serra, Robert C.		Flowers, T. C.	McGregor, Shirley	Yarger, Sondie	
		Forbes, Ronald L.	McLeod, Bill	Zamoro, James M.	

¹Legible portion of commentor names appear in this table.

Table 1.2-8. Individuals and Organizations that Submitted Public Meeting Hand-ins as Part of Campaign 1 (Page 3-106)—Continued

White Deer (continued)

Phillis, Stacy M.

Rhoads, A. E.

Rhoads, Evelyn

Standefer, Frances K.

Standefer, R. W., Jr.

Vigil, Manuel

Ware, M. D.

Wheeler, Carolyn

Wildorado

Moore, Ben

Moore, Dolores

Table 1.2-9. *Individuals and Organizations that Submitted Letters as Part of Campaign 2 (Page 3-107)*

TEXAS	Sprouse, Mozola, Smith & Rowley, P.C.
Amarillo	Stokes, Yvonda
Acoma Pine Animal & Bird Clinic, Tom S. Gerald	Senator of the State of Texas, Teel Bivins, District 31
Amarillo College	Villasenor, Manny P.
Amarillo National Bank, Gary Molberg	Austin
Amarillo Tri-State Fair, Cheri Christensen	Texas House of Representatives, Committee on Environmental Regulation
AZ Tire	
Bills, Gretchen	
Boatman's First National Bank	
Buck, L.	
Budweiser Distributing Company, Dean Morrison	
Canyon Drive Lumber Company, Royce Barnett	
Coldwell Banker, Robert E. Garrett	
Coldwell Banker, Randall C. Jeffers	
Coldwell Banker, Tom Roller	
Dawdy, Ann	
Harrington Regional Medical Center, Stephen H. Gens	
Page & Associates Contractors, Inc.	
Sarzynski, Mike	
Sell and Griffin, R. Wayne Moore	
Sell and Griffin, Garland D. Sell	
Shelton, Eva M.	
Southwestern Bell Telephone	

Table 1.2-10. *Individuals and Organizations that Submitted Postcards as Part of Campaign 3 (Page 3-109)*

No Location Submitted					
Abbott, Kathleen	Carlson, Norma	Dazey, M. L.	Goodin, Marian	Keith, Gary	Munsell, F. Darrell.
Aiken, Bill	Carlson, Betty Jo	DeBrangostickel, Maria	Goss-Werner, Irene	Kelly, Mary E.	Munsell, J.
Albrecht, Annette	Carter, Bart	Deies, Delores	Gray, William T.	Kenedy, Rozella	Nark, Mark
Albrocht, Roger	Carter, Sandy Purcell	Delbert L.	Gray, Bill	Kifsherty, Yvonne	Newburg, Madonna
Alexander, Thelma	Carthel, Brooke	Denise, Elizabeth L.	Groatgut, Gertrude	King, Carl L.	Nielsen, Richard A.
Allen, Martha A.	Caviness, Brent	Denton, John L.	Gwann, Joe	Kirkpatrick, E. F.	Norwood, Helen
Anderson, Lois H.	Caviness, Kay Lynn	Detton, Floyd	Hajeh, Linda	Kleushen, Carl	O'Brien, Bill
Androdu, Mary	Charless, Mary C.	Deuns, Arthur	Hall, Joyce A.	Kleushens, Helen	Olson, Betty D.
Armstrong, Leah	Cheshire, Sandi	Dietz, Kevin	Hansen, Ruth Ann	Koetting, Dana	Ordaz, Martina
Artho, Joe	Clark, Rita Wells	Dillen, Robert M.	Hansen, Eric	Koster, Jeanne	Patton, Robert W.
Asner, Ed	Claudio, Lydia	Dillen, Theresa	Hardef, Deborah	Kotara, Ronall	Patton, Nancy P.
Atchley, Patty	Clearinger, Billy	Dillihoy, Herold	Harine, Kathie	Lathom, Gene	Pitts, Alan
Baker, Ramona	Clements, W. L.	Dixon, David	Harris, Garland M.	LeGate, Della	Podson, Ted
Balsiger, George	Colley, Vina K.	Dixon, Billie	Harvey ¹	LeGate, Nolan L.	Poteet, Billie B.
Banks ¹	Conkeeright, Janice	Dorrow, Tom	Hatfield, Bobby	Light, Kayte	Primer, Mildred
Barnes, Debra	Conkeeright, Jim	Dudenhoeffter, Mike	Hawkins, Mary G.	Lipton, Katie	Pugh, Yvonne D.
Barnes, Ernestine	Cooney, Peggy G.	Dumas, Lloyd	Hedgecoke, Stephanie	Lipton, Richard	Raizen, Ben
Baudy, William	Cooney, D. B.	Dunn, Pamela	Helt, Mary	Lowe, Joseph	Rankin, Denise
Bell, Karen	Cooney, Peggy G.	East, Brian	Herbert ¹	Mank, Evans R.	Raschke, Helen J.
Belsey, Dick	Cooper, Shirley	Elliott, Nancy	Hernandez, Shelli	Marlirn, Christina	Rekdal, Sheila K.
Belsey, Ashira	Cooper, Margaret O.	Emery, Mary	Hershey, Olive	McClellan, J.R.	Reyna E.
Berend, Dora	Corbett, Henry J.	Escanilla, L.	Hicks, Mildred	McClellan, Sandra	Reyna E.
Bieri, Alvena	Corodrey, Sharon	Escobol, Linda	Higgins, Alberta	McDougal, Eloise	Richard B.
Binkley, D. D.	Cox, Jean	Fraser, Stephanie	Hill, Fred	McDougal, Eloise	Ricker, Frances R.
Birkenfeld, Darryl	Craighead, David	Freemil, Neysa	Hiller, Marilyn C.	McElhaney, Jan B.	Rissman, Adera R.
Blarton, Shae	Craighead, Betty	Friemel, Neysa	Hinds, Peter C.	McGee, Donna L.	Rivers, Lamar J.
Boodin, Galim	Crain, Mary Tom	Gabel, Jim	Hirsch, R.	McGowan, Lucy	Robert ¹
Braziel, Amanda	Craven, Nancy	Gaber, Welch	Hollingsworth, Dale	McKinney, Jake	Robinson, Richard
Brek, N.	Crossett, A.	George ¹	Hollingsworth, Jean	McLarty, Dorothy	Rohrback, Arline
Brisbin, Sharon	D'Nan, Elizabeth	Georgia ¹	Huffines, Heidi	McMurtry, Allan	Romero, Louis
Brock, Thelma	Dadt, Charwezel	Geraldine ¹	Hutchison, Ralph	McMurty, Brandon	Rounsavell, R. S.
Bronneman, Rita	Daniel, Louise	Gibben, J.D.	Hysinger, Becky	Middleton, Ronnie	Rounsouell, Bob D.
Bromman, Myrna	Darwin, Carol	Gideon, Ron	Ivy, Deloris	Miles, Jacquelyn	Rountree, Claudia
Bromman, Elaine	Daseth, Robert	Gilbert, Betty	Jack, Mike	Miller, Janet M.	Rowntree, Anna
Buckmaster, Armarena	Davis, Camille	Gilliam, Linda	Jiestiel, Richard	Miller, Garry D.	Ruiz, Brendon
Buileson ¹	Davis, Isabel	Gilmore, Steve	Johan, Lou	Minchew, Linda	Russ, Doris
Buster ¹	Davis, Beverly A.	Glancork, Ashlee	John ¹	Minchew, Richard D.	S., Deborah
Cadenhead, Ernest	Davis, Marla J.	Glern, Lynda	Johnson, Leroy	Mohr, Dan	Salbeck, Albert A.
Calvert, Rita	Davsen, Yurive M.	Golden, Richard	Jones, M. L.	Moles, Mike	Salih, Sharon K.
Canfield, Stephanie	Dawson, Norma	Golden, Mae	Kalka, Keith	Moore, Mary	Sanborn, Hugh W.
	Dawson, Gordon R.	Gonzales, Patsy	Keener, Carla K.	Mosiley, Richard	Sanders, Kim D.

¹Legible portion of commentor names appear in this table.

Table 1.2-10. *Individuals and Organizations that Submitted Postcards as Part of Campaign 3 (Page 3-109)—Continued*

No Location Submitted (continued)	Thompson, Sally A.	South Gate	NEVADA	Hall, Kathy	Cominis, Joan
Sanderson, Robert	Tooley, Kerry	Bonner, Patrick	Las Vegas	Hyde, Scott	Dolley, John
Sanford, Hugh	Torres, Dee		Knutsen, Reinard	Jeniss, John	Hadden, Karen
Savage, Virginia	Torres, Amanda	COLORADO		Kelly, Sue	Hannoy, Michael
Schlab, Tom	Trevizo, Elena	Colorado Springs	OHIO	Klinke, Agnes	Harrington, James C.
Schumacher, Ida	Trevor, Gene	Springer-Froese, Peter	Euclid	LaBorde, Dorothy P.	Helms, Patricia G.
Schumacher, W.	Tucker, Tracy		Fallswalk, Janet	Lebow, Sherri	Kloppe, E. G.
Seaglitm, Besty	Underwood, Vivian	FLORIDA		Marsliz, Wendy & Stanley	Larson, Dennis
Seewald, W.	Varga, Judith A.	Miami	OKLAHOMA	Martindale, Julie	Lippmann, Lilli
Shang ¹	Vaughn, Joanna & Larry	Raup, William W.	Noble	McFaul, Teresa	Lippmann, Otto
Sides, Harold	Vilkowski, Leo		Mattek, Phyllis	McGee, Bob	Lowerre, Richard
Sikora, Robert	Wah, Edith	ILLINOIS	Oklahoma City	Molesworth, Ann	Matthews, Craig E.
Slater, Alice	Walter, Helen	Vienen Hills	Berry, Rick	Morris, Susan	Ricker, George M.
Smith, P.	Wancura, Marianne	Mary ¹	Stillwater	Murphy, James P.	Russell ¹
Smith, Phalba	Ward, Rick		Cunningham, Clarence M.	Nicholson, Melanie	Simpson, Cheryl
Smith, Greg W.	Ward, Barry	KANSAS		Nobles, G. C.	Sullivan, Elisabeth
Smith, Gail B.	Weber, Roserita	Newton	PENNSYLVANIA	North Fork Building & Design	Texas Alliance for Human Needs
Snodgrass, Tamara	Werner, Robert	Frey, Mark	Pittsburgh	Oppermann, Bobbie J.	Texas Conference of Churches
Snodgrass, Gary	Wetmore, Gladys		Rush, Molly	Patton, Pat	Zachary, Doug
Solomen, Henry L.	Wetmore, Don	Wichita		Revell, Cathy	Blanco
Sorbert, Edward M.	White, Jack	Mohr, Nick	TENNESSEE	Rewl, Dian C.	Rossignol, Steve
Springer-Froese, Mary	Williams, Jim		Dawn	Sanchez, Emily	Bonham
St. Clair, Shelley	Wink, Shaun L.	MASSACHUSETTS	Wimberley, Dori	Seewald, Hughes	Marshall, Joyce
Stein, Richard	Witkowski, Louise	West Falmouth		Shennum, Mary L.	Borger
Stein, Janie	Wood, H.	Micks, Pat	Houston	Smith, Ernestine	Collard, Janan
Stein, Nicholas	Young, Monte K.		Loe, Claire	Smith, P.	Rankin, Rebecca
Stengel, A. C.	Young, Cole	MINNESOTA		SoRelle, Sara	Brownfield
Steve ¹	Young, Terri	St. Paul	TEXAS	Villarreal, Silvia	Henson, Joe H.
Stewart, Sharon		Broda, R.	Amarillo	Vincent, J.	Canyon
Streun, Cynthia	ALABAMA		Battles, Margaret	Waters, Carolyn	Campbell, Ron
Sulis, Shirley	Cullman	Alamogordo	Bennett, Hood	Zimmerer, Leo & Mary	Ensey, Christi
Swan, Lila	McGehee, Mary	Lisec, David F.	Campbell, G. G.		College Station
Taff, Joe		Lisec, Ann	Charless, Addis	Arlington	Bradshaw, Susan E.
Taff, Joyce M.	CALIFORNIA		Davin, A.	Kaska, Mary Jo	Corpus Christi
Taff, Amber	Elk Grove	NEW MEXICO	Diocese of Amarillo		De Long, Mary E.
Taylor, Donna	Grandmothers for Peace	Albuquerque	Duggan, Carla J.	Austin	De Long, Richard
Thayer, G. Richard		Bunting, D.	Goldstein, Nathan	Barbee, Adrienne	
Theine, Jeanmarie	San Bernardino		Graves, Sonya	Belisle, James	
Thompson, James L.	Yaroslow, G.	Chimayo		Brister, Bob	
Thompson, Sandie	Silverado	Glendinning, Chellis		Butts, Nina	
	Meddick, Sherry				

¹Legible portion of commentor names appear in this table.

Table 1.2-10. *Individuals and Organizations that Submitted Postcards as Part of Campaign 3 (Page 3-109)—Continued*

Dallas Buchanan, JoAnn Cooper, Robert Davis, Richard D. Nuttels, Craig Schermbek, Jim	Greenville Mosa, Jeanette A. Happy Stein, G. Hereford Allison, Ruth C. Allison, J. R. Brumley, Jason Brumley, Janice Cargs, Bill Carlson, Elmer Cox, Gladys Cox, Donald R. Davis, Raymond Davis, Raymond Dziuk, Alfred E. Formby, Chip Formby, Lisa Foster, Delores V. Foxhoven, Deborah Gee, Mona Goilscher, Diane Hendershot, Larry Higginbotham, Nedra Higginbotham, Raymond Higgins, Hilten Higgins, Peggy Hoelscher, Richard C. Hopper, Dave Kleuskens, Tonya Oglesby, Cecil Oglesby, Ella Paul ¹ Schlabs, Laura Schlabs, Charles Schlabs, Richard Schlabs, Geraldine Schultz, Margret Sobman, J. Steiert, Kerrie	Steiert, Jim Stengel, Charlie Strafuss, Carl Strafuss, Joan Wilson, Shirley Womble, Joan Wossible, Benny Yosten, Marian Houston Golding, Bert Kaplanwald, Jerome Loe, Lee Titus, Mary P. Titus, Jim Lubbock Caldwell, Addie B. Cochran, Clarke E. Crawford, A. W. Gray, Martha Kleuskens, Heather Pemchlile, Thomas Vines, Mary M. Medino Isaacs, Florence Muleshoe Bell, Mary Lynn Nazareth Birkenfeld, Herman Birkenfeld, Marilyn Newcastle Wendel, Jeannine P. Wendel, Duane Pampa Arnold, Jerry Thrasher, H. Panhandle Chair ¹ Detten, Danny G.	Osborne, Jim Osborne, Jeri Smith, Phillip Post Earl, Lewis H. Richardson LaGreca, Mary H. San Antonio Maher, Peter McKenzie, Phyllis Wah, Thein Shamrock Schlegel, Norbert Spring Sherlock, Charles N. Sherlock, Dorothea Sunray Ferguson, Katrina Yanke Farms Tulia Jones, Pamela Tyler Edelson, Elihu VERMONT Lyndonville Morrissette, Sherlyn B. VIRGINIA Louisa ¹ Kretzman, Steve WASHINGTON Bremerton Hudson, Jackie Dallas Schumacher, Alex C.	Seattle Speiser, Joshua
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¹Legible portion of commentor names appear in this table.

Table 1.2-11. Individuals and Organizations that Submitted Postcards as Part of Campaign 4 (Page 3-110)

WASHINGTON

Domina, Kirk

Kennewick

Janett¹

McCalmant, Grant L.

Parks, Robert J.

Pasco

Hodge, Ralph B.

Richland

Klute, Terrence A.

Mix, Teresa

Reenen, Timothy V.

Veesteeg, Aleci

Wilkerson, Noah L.

West Richland

Martell, Lance

Table 1.2-12. Individuals and Organizations that Submitted Letters as Part of Campaign 5 (Page 3-111)

TEXAS

Amarillo

- Bhasker, Constance
- Lebow, Michael G.
- Lebow, Sherri
- Rudd, Terry
- Rudd, Mysti

Table 1.2-13. Individuals and Organizations that Submitted Postcards as Part of Campaign 6 (Page 3-112)

CALIFORNIA	Janet ¹	Fort Worth
Salida	Kedeentern, Mike	Sckora, Judith
Wancura, Mauarine S.	Kelly, Sue	Georgetown
COLORADO	Martindale, Julie	Roberts, Ruth
Colorado Springs	McFriel, Teresa	Hereford
Dudenhoeffer, Mike	Morris, Angela	Steiert, Kerrie
Spring-Froese, Mary	Morris, Susan	Houston
Stein, Janie	Morris, Henry	Brown, Deborah
Thayer, G. Richard	Murray, Minnie	Medino
Tucker, Tracy	Nobles, G. C.	Isaacs, Florence
Young, Terri	North Fork Building & Design	Newcastle
KANSAS	Rains, Kim	Wendel, Duane
Meade	Seewald, William H.	Wendel, Jeannine P.
Cottrell, J. M.	Smith, Ernestine	Pampa
Newton	SoRelle, Sara	Arnold, Jerry
Frey, Mark	Wink, Clarence F.	White, Jack
Wichita	Austin	Panhandle
Mohr, Nick	Helms, Patricia G.	Detten, Danny G.
NEW YORK	Matthews, Craig E.	Gray's Baling
New York	Vaughn, Joanna R.	Osborne, Jim
Hedgecoke, Stephanie	Young, Marte K.	Smith, Phillip
OKLAHOMA	Clarendon	Wink, Frank M.
Norman	Bell, Mary Lynn	Perryton
Hardersen, Diane	Claude	Allred, Kathy
Oklahoma City	Blanton, Joe	WASHINGTON
Berry, Rick	College Station	Dallas
TEXAS	Bradshaw, Susan E.	Schumacher, Alex C.
Amarillo	Corpus Christi	Seattle
Campbell, G. G.	De Long, Mary E.	Darrow, Gordon R.
Charless, Addis	Dallas	
Diocese of Amarillo	Buchanan, Jolinn	
Garcia, Danna	Dawn	
Goldstein, Nathan	Miller, Genevieve O.	
Harding, Jim	Denton	
	Smith, Marshall	
	El Paso	
	Hammett, Mary K.	

Table 1.2-14. Individuals and Organizations that Submitted Postcards as Part of Campaign 7 (Page 3-113)

No Location Submitted

Detten, Delores

Detten, Donald

TEXAS

Panhandle

Smith, Mark

Issue Categories

Chapter 2

Changes Made to the Draft Programmatic Environmental Impact Statement as a Result of Public Comments

2.1 INTRODUCTION

During the 92-day public comment period, DOE received a total of 8,692 comments (Tables 1.1-1 and 1.1-2) on the Storage and Disposition Draft PEIS. DOE considered and responded to all comments received during the comment period. Several issues emerged from public comments. Some of these issues necessitated changes in the Storage and Disposition Draft PEIS. These changes were incorporated into the Storage and Disposition Final PEIS. A summary of the major comments received and changes made to the Draft PEIS appears below.

2.2 COMMENTS RECEIVED

Approximately 80 percent of the comments received consisted of mail-in letter and postcard campaigns which expressed either support of or opposition to the use of various sites or alternatives. Most commentors were in favor of transforming surplus plutonium (Pu) into non-weapons-usable forms. Some favored the Reactor Alternatives which would convert the surplus Pu to mixed oxide (MOX) fuel, burn the MOX fuel in reactors, and gain a resultant energy and economic benefit. Other commentors favored the Immobilization Alternatives, specifically the Vitrification Alternative, the conversion of the surplus Pu into a non-weapons-usable form without the use of reactors. A few commentors were in favor of the Borehole Alternatives. However, most commentors opposed the Borehole Alternatives on the basis of environmental, safety, safeguards, and security concerns. A number of commentors expressed the opinion that the surplus Pu should remain in present locations for future energy or weapons use, or until new technologies are available for disposition.

Since MOX technology is not a readily available technology in the United States, several commentors were concerned with security and involvement by foreign nations in the U.S. disposition program. Commentors wanted assurance that the MOX fuel would not be part of the commercial market and would remain under DOE's ownership.

A number of commentors were concerned about the Canadian Deuterium Uranium (CANDU) Reactor Alternative and the manner in which the operation would be conducted with the Canadian Government. Commentors expressed concerns with U.S. and Canadian agreements that would be developed if the CANDU Reactor Alternative were selected as the Preferred Alternative, as well as Canadian compliance with their own environmental laws and regulations. Further concern was raised over the safety, security, and environmental issues associated with the transportation of the materials to Canada.

Some commentors stated that the U.S. Nonproliferation Policy does not encourage the civil use of Pu or Pu processing for either nuclear power or nuclear explosive purposes. The commentors requested that the PEIS address the possibility that the MOX option would have an adverse effect on U.S. Nonproliferation Policy by encouraging its use in civil nuclear power programs and by encouraging Pu reprocessing and recycling. However, other commentors were concerned that DOE should not make statements that would expressly prohibit future reprocessing. DOE acknowledges the public concern for nonproliferation. As discussed in the PEIS, the reactor option would utilize a once-through fuel cycle. Spent fuel from disposition would be disposed of with other commercial reactor spent fuel. This is consistent with U.S. policy since no Pu in the spent fuel would be recycled.

Some commentors indicated that the isotopic composition of the residual Pu in the final waste forms is an inappropriate criterion by which to assess proliferation risks because it perpetuates a myth that reactor-grade Pu cannot be used to make workable weapons. In the opinion of these commentors, isotopic degradation does not constitute a compelling argument in favor of the MOX option. DOE acknowledges that, although it may be possible to make a nuclear weapon from spent commercial reactor fuel, this can only be done with extreme difficulty by individuals with a great deal of experience in handling and processing nuclear materials. DOE believes that the disposition of weapons Pu through the use of MOX fuel in reactors would meet the Spent Fuel Standard in creating a radiological barrier that makes the Pu as difficult to retrieve and reuse in weapons as Pu in spent commercial fuel. The use of this technology would allow for the Pu to be disposed in a geologic repository, the same as for spent commercial fuel.

Commentors encouraged DOE and the United States to become the world leader in the safe, secure, and timely disposition of Pu. Commentors favored U.S. promotion of worldwide nonproliferation of surplus Pu.

A large number of comments were received about the duration of the original 60-day comment period. The concern was that the Draft PEIS was complex and the original comment period too short to allow for a detailed and thorough review. The comment period was subsequently extended to a total of 92 days.

Commentors indicated either support of or opposition to the use of existing facilities. Existing facilities were considered in the Draft PEIS to the extent practicable. For example, for storage of surplus Pu, the Upgrade Alternative would use existing facilities at various sites. For disposition, existing reactors in the United States and Canada are included as alternatives.

Some commentors requested that DOE have a formal economic analysis to evaluate the cost of each alternative. Several commentors requested that such a comparative cost analysis be available for public review.

Some commentors proposed that DOE evaluate additional alternatives for the management of Pu and highly enriched uranium (HEU).

2.3 CHANGES MADE TO THE DRAFT PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT

In response to comments received on the Storage and Disposition Draft PEIS, as well as other improvements in data and analyses, the Storage and Disposition Final PEIS has been modified in the following respects:

- Revisions were made throughout the Summary and Sections 4.6 and 4.7 to modify the discussion of cumulative impacts and ranking of sites. As a result of comments received during the comment period, all comparative language was removed from the description of the analyses of the alternatives. This was done to provide unbiased analyses to the decisionmaker.
- Some commentors requested that DOE consider additional disposition alternatives, including the use of the Fast Flux Test Facility (FFTF), deep burn reactors, and mononitride reactors. The use of advanced reactors such as deep burn reactors and mononitride reactors was considered but eliminated due to the technical immaturity, attendant costs, and lengthy development and demonstration efforts required to bring the technologies to a viable, practical status and enable disposition options to be initiated with certainty. The FFTF would be considered for Pu disposition if first selected for tritium production. The FFTF is not a reasonable, stand alone alternative because it is in a standby status awaiting shutdown and because it could not satisfy the criterion of completing the disposition mission within 25 years. A discussion of FFTF for this purpose is included in Appendix N. In all, 37 different alternative options were considered by DOE for disposition of Pu. DOE has made revisions to the Summary and Chapter 2 of the Final PEIS to clarify how the screening process was used for selection of reasonable alternatives.

- Section 4.7.3 was modified to address the cumulative impacts for the disposition alternatives.
- Section 4.9, which includes Impacts on Uranium Mining and Nuclear Fuel Cycle Industries, Avoided Environmental Impacts of Using MOX Fuel Instead of Traditional Low-Enriched Uranium Fuel in Nuclear Power Plants, and Avoided Environmental Impacts of Using Nuclear Power Plants Instead of Fossil Fuel Power Plants, was expanded and clarified. Avoided impacts to air quality and waste generated were added to the Final PEIS.
- Los Alamos National Laboratory (LANL) was analyzed for No Action and Storage Phaseout and is included in the Final PEIS. Of the 2.7-metric ton (t) (2.97-short ton [ton]) inventory of Pu at LANL, approximately 1.5 t (1.65 tons) fall within the scope of this PEIS and have been analyzed for storage and disposition.
- Public and occupational health and safety sections were rewritten to clarify methodologies used for the calculation of accidents.
- Section 4.2.6.9 (Public and Occupational Health and Safety) was reanalyzed due to revised badged worker numbers at the Savannah River Site (SRS). New data were provided for the No Action Alternative and the Upgrade Alternative.
- Some commentors requested more information on the can-in-canister technology concept which is a variant of the Vitrification and Ceramic Immobilization Disposition Alternatives. Appendix O, describing the two can-in-canister technology concepts at SRS, was added to the Final PEIS.
- The accident analysis for the Existing Light Water Reactor (LWR) Pu Disposition Alternative was enhanced to further address the comparative impacts and risks of operating an existing commercial uranium-fueled LWR with MOX core. The analysis of a representative Advanced Boiling Water Reactor (BWR) for the Evolutionary LWR Alternative was modified to quantitatively address the "absolute" risks associated with MOX-fueled reactor operations. A more detailed explanation was added to various accident analysis methodology sections to clarify issues related to the technical approach and the basis for modeling assumptions used in the PEIS. The analyses are in accordance with DOE's Office of NEPA Policy and Assistance guidelines for the preparation of EISs. The results, which have a quantitative basis, are presented in applicable sections of the Final PEIS.
- Changes to various technical issues raised by commentors, including data discrepancies or inconsistencies, were incorporated into the Final PEIS for a number of environmental resources.
- Some facility locations for the storage alternatives were clarified in the Final PEIS. In the Draft PEIS, the Consolidation Alternative at the Pantex Plant (Pantex) had two different locations, either north of Zone 11 or in Zone 12 South. The Final PEIS designates only Zone 12 South for consolidation activities. For the SRS Upgrade Alternative, the description has been changed to clarify that the proposed new storage facility is the Actinide Packaging and Storage Facility (APSF), and vault space would be expanded to meet the long-term storage needs. The APSF will be operational before the year 2005, which is the baseline year for No Action in the PEIS.
- The socioeconomic sections were revised due to updated population projections for all Bureau of Economic Analysis (BEA) regions and changes to the employment requirements for Pu conversion, pit disassembly, and MOX fuel fabrication facilities. Employment changes were also made to the Storage Upgrade Alternative at the Hanford Site (Hanford), Pantex, and the Idaho National Engineering Laboratory (INEL). In addition, the affected environment for site employment has been

updated for the Nevada Test Site (NTS), Hanford, SRS, INEL, and the Oak Ridge Reservation (ORR).

- Lawrence Livermore National Laboratory (LLNL) was eliminated from the transportation analysis in Section 4.4.
- The epidemiology sections have been updated in Section M.4.
- Commentors noted that transportation of fissile materials is one of their major concerns with the Fissile Materials Disposition Program. The ground transportation between sites, in the event a consolidation alternative was selected, could increase the potential for traffic accidents. International transportation and specific border crossings for shipment of MOX fuel to Canada for the CANDU Reactor Alternative was also identified as a concern. DOE acknowledges the public's concern, and in response, the transportation analyses in Section 4.4 and Appendix G of the Draft PEIS were expanded. The revisions address security measures for land and sea transport, emergency preparedness, and clarify the results of analyses performed.
- The Preferred Alternative, based on a combination of storage and disposition alternatives, has been identified and analyzed.
- Appendix N, which in the Draft PEIS summarized the operational aspects of the multipurpose reactor, has been revised for this Final PEIS to provide information on the costs and benefits of conducting separate tritium production and Pu disposition missions versus the costs and benefits of carrying out one multipurpose mission. Included in Appendix N is a cost comparison of using new Advanced LWRs or Modular Helium Reactors and a discussion of issues regarding the use of the FFTF (a liquid metal reactor at Hanford) for tritium production and Pu disposition.
- Appendix P has been added to the Final PEIS to provide a description of using the Manzano Weapons Storage Area (WSA) near Albuquerque, NM, to store Pu pits. This appendix also describes the resulting environmental impacts, based on information provided in the Pantex EIS. This appendix was added because DOE's PEIS Preferred Alternative separates the long-term storage of pits from non-pit materials, in which case, Manzano WSA no longer appears unreasonable under the Preferred Alternative for pit storage. However, since DOE's preferred site for interim storage of pits is Pantex (as described in the Pantex EIS) and the majority of pits are already located in storage at Pantex, it did not seem reasonable for DOE to consider a site other than Pantex for the long-term storage of Pu pits, because weapons assembly/disassembly would continue at Pantex in any case. Construction of a new storage facility at Manzano would create needless expense and transportation risk.
- Appendix Q has been added to the Final PEIS to describe the operations and human (radiological) health impacts associated with Pu pits being transferred from the Rocky Flats Environmental Technology Site (RFETS) to Pantex, repackaged in Zone 12 South, and placed in storage in Zone 4 West at Pantex, as part of the Preferred Alternative for storage. The information presented in this appendix is based on the Pantex EIS analysis of storing the Pu pits already at Pantex.
- Appendix R has been added to the Final PEIS to discuss aircraft crash and radioactive release probabilities for proposed storage and disposition facilities at Pantex.

Chapter 3 contains the scanned images of original documents received during the public comment period. These images are marked with sidebars denoting the identified comments and the responses corresponding to these comments.

Chapter 3

Comment Documents and Responses

This chapter presents documents submitted to DOE on the Storage and Disposition Draft PEIS, comments recorded in public meetings and identified from documents, and DOE's response to each comment. The responses to comments identical or similar in nature were repeated throughout the document. Comments that were assigned the same issue bins indicate that they pertained to the same general topic (see Table 1.2-1) but may not necessarily have the same response.

In most instances, the response is found on the same page as the corresponding comment. However, in cases where many comments were identified on a single page, the responses to those comments may appear on following pages.

A number of responses to comments refer to documents providing analysis for the technical, cost, schedule, and nonproliferation policy of the storage and disposition alternatives separate from the PEIS. These documents are as follows:

- *Technical Summary Report for Surplus Weapons-Usable Plutonium Disposition (DOE/MD-0003)*
- *Technical Summary Report for Long-Term Storage of Weapons-Usable Fissile Material (DOE/MD-0004)*
- *Nonproliferation and Arms Control Assessment of Weapons-Usable Fissile Material Storage and Plutonium Disposition Alternatives*

The two Technical Summary Reports were initially made available to the public for comment in July 1996. The Nonproliferation Assessment was first made available to the public for comment in October 1996, and a series of public meetings were held in October and November 1996 to receive public comment. The comments that were received on each of these documents were considered by DOE, and appropriate changes, clarification, and additional information are provided in updates to the documents which were again made available to the public beginning in November 1996.

The results of these analyses as well as the environmental analysis and public comments will be included in the decisionmaking process.

AHOUSE, LORETTA, SEATTLE, WA
PAGE 1 OF 2

Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic
Environmental Impact Statement (PEIS) Public Comment Form

Name (optional): Loretta Ahouse
Address (optional): 1302 41st Ave South #204
Seattle WA 9810

Please write down your comments and drop this form in the marked boxes before you leave tonight. These forms will be submitted to the Department of Energy as part of the formal comment on this PEIS. If you are unable to complete this form tonight, written comments can be mailed to:

Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, D.C. 20026-3786

or, you can call this toll-free number to leave comments by phone: 1-800-820-5156 Comments must be submitted by May 7, 1996.

The Department of Energy has identified three types of technologies as options for disposing of weapons-usable fissile materials. The Department has also considered a "no action alternative" which would result in long-term storage of these materials. Please write down your comments on the following three types of options for disposal and the storage option.

1. Materials Immobilization/Vitrification - Immobilize fissile materials by mixing them with glass, glass bonded zeolites, or ceramics

I support immobilization of plutonium (and other kind nuclear waste). I am not sure what form the
summary of tonight's presentation explains the
differences between the various immobilization options

1/08.03.01

2. Deep borehole disposal - Materials would be disposed in boreholes at least 2.5 miles deep, in geologically stable formations. Materials could be disposed directly into the deep borehole, or materials could be immobilized first, and then deposited into the deep borehole.

The untreated disposal into a deep borehole option is
ridiculous and should not be considered at all

2/08.03.01

3. Reactor Options - Surplus plutonium/highly enriched uranium would be made into MOX fuel for use in nuclear reactors, destroying by fission a major portion of the weapons grade materials.

This option would only encourage further development
of nuclear power which I oppose. It is not a
viable option - economically it makes no sense and
in as plant fuel and nuclear waste is still a problem

3/08.03.01

4. Storage Options - USDOE would continue existing storage practices for weapons-usable fissile materials at current locations and/or consolidate that storage at one or more of the designated sites

M-222

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's support for the Vitrification Alternative. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01

Comment Number 2

The Department of Energy recognizes the commentor's concern with the Borehole Alternatives. Decisions on the disposition alternatives will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01

Comment Number 3

The Department of Energy acknowledges the commentor's opposition to the Reactor Alternatives. However, NEPA requires that DOE look at all reasonable alternatives and, therefore, alternatives involving reactors must be considered. Decisions on the disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

Please use this space to write down any additional comments on the Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic Environmental Impact Statement.

My final comment is on the public comment process. This meeting in Seattle would have benefited from allowing more time for citizens to speak instead of listening to the experts. The discussion groups were very helpful and should have had more time.

4/08.02.00

Any decisions that are made about these issues has to bear in mind the Pu will be around longer than our govt. We must use a technology that best protects future generations, as well as our own.

5/01.00.00

M-222

08 02 00

Comment Number 4

Comment noted. However, the Seattle meeting was not sponsored by DOE. DOE was an invited guest.

01 00 00

Comment Number 5

Comment noted.

ALLEY, CLYDE, AMARILLO, TX
PAGE 1 OF 5

 <p>Comments to: The Commission on the Safety of the Atomic Energy Act 3100 North Central Expressway Suite 1100 Arlington, VA 22204</p>	<p>United States Department of Energy</p> <p>NAME: (Optional) <u>CLYDE ALLEY</u></p> <p>ADDRESS: <u>8 CAMBRIDGE ROAD AMARILLO TX 79124</u></p> <p>TELEPHONE: <u>(806) 353-8213</u></p> <p><u>SOCIOECONOMIC QUESTIONS (ATTACHED)</u></p> <p><u>PAWEE'S PLANT WATER USAGE (ATTACHED)</u></p>
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M-125

SSM PEIS and S&D PEIS
SOCIOECONOMIC QUESTIONS

* Please explain why LLNL and LANL Stockpile Management budgets show projected increases from 1996 to 2004 since the US has terminated the development of new nuclear weapons ?

Ref. SSM PEIS Preferred Alternatives Report, pp 26,30.

* Are these projected increases in Stockpile Management at the two labs based on transferring missions to them which have previously been done at the production plants ?

* Please elaborate on a statement made on page 34 of the SSM PEIS Preferred Alternatives Report that " personnel from the laboratories could perform assembly / disassembly for some weapon surveillance operations to improve the programmatic tie between Stockpile Stewardship and Stockpile Management ".

- Would laboratory personnel replace Pantex personnel for this work ? If not, explain.
- Would this add to the projected layoffs at Pantex ? If not, explain.
- Would the laboratory personnel be trained and certified to perform this work ?
- What organization(s) would be responsible for safety, safeguards, and conduct of operations associated with this work ?
- Explain how this would improve Stockpile Stewardship and Management ?

* Under Phaseout (page S-21) of the S&D PEIS the statement is made " All of the regional economic areas surrounding the DOE sites would experience a loss in employment with

1/09.08.08

M-125

09 08 08

Comment Number 1

With the exception of RFETS, the phaseout of existing storage facilities at DOE sites would involve, at most, the loss of 200 direct jobs (Hanford and SRS). At Pantex, the phaseout would only affect five jobs, and no jobs would be lost at INEL. The impacts of these employment losses on the affected regional economies would be minimal. As stated in the PEIS, the regional economies in which the DOE sites are located are too large to be adversely affected by such a small decrease in employment at one site. Although the phaseout of storage facilities at RFETS would involve a greater number of workers, the impact on the regional economy would still be small because of the plant's location near a large metropolitan area. The PEIS analyses (including analyses of socioeconomic impacts), along with technical and cost studies, nonproliferation considerations, and public comments will be considered by DOE in the Record of Decision (ROD).

phaseout. However, compared to total employment in these areas, the loss of jobs would have no or negligible impacts at all the DOE sites.*

- For which sites would the impact be negligible ?
- For which sites would the impact be significant ?
- What is the basis for determining the significance of the impacts ?
- How does the DOE plan to use this significance in their selection process ?

1/09.08.08
cont.

- * The socioeconomic analyses of the three EIS's are not consistent. The SWEIS (p. S-17) assumes 1.65 indirect jobs in the region for every job at Pantex. The SSM PEIS (p. S-32) assumes 1.16 and the S&D PEIS (p. 4-205) assumes 3.51.

- Please explain these differences ?
- Why didn't the DOE use the analysis of the Amarillo Economic Development Commission (AEDC) which is based on local knowledge of the area ? Their analysis gives a ratio of 2.87 to 1 (REF. Chamber Quarterly, 2nd Quarter, 1996, Amarillo Chamber of Commerce).

2/09.08.04

- * Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, and President Clinton's February 11, 1994 Memorandum for the Heads of all Departments and Agencies requires an analysis of environmental effects on low-income and minority populations to include human health, social, and economic effects. Why do the draft SWEIS, SSM PEIS, and S&D PEIS analyze only human health effects of the proposed actions and not the social and economic effects as required ?

3/09.12.08

M-125

09 08 04

Comment Number 2

The number of indirect jobs generated by the Proposed Alternatives was based on the Regional Input-Output Modeling System (RIMS II) model developed by BEA. The multipliers used in the model are available for every economic region in the Nation (each of the DOE sites). This allowed a consistent method to be applied to all sites. Site-specific numbers should be used in site-specific EISs. Section 4.1.8 of the PEIS has been modified to clarify the utilization of the RIMS II model.

Projections of the number of indirect jobs generated depends on a number of factors, including the activity performed, the type of data used, and the methodology employed. The Storage and Disposition PEIS evaluates the socioeconomic impacts for the storage and disposition of fissile materials at Pantex, while the Stockpile Stewardship and Management PEIS evaluated the impacts of weapon assembly and disassembly operations. The activities of the two programs are quite different and each requires very different inputs for production. The availability of inputs within the region determines the size of the multiplier.

09 12 08

Comment Number 3

Socioeconomic impacts are analyzed in detail in all of the environmental statements noted by the commentor. The Storage and Disposition PEIS analyzes potential socioeconomic impacts for all of the Proposed Alternatives. For those alternatives that would add a new mission to a particular DOE site, there would be no adverse socioeconomic impacts. In fact, the analyses indicate that the impacts of these alternatives would be small but beneficial to the affected regional economies. There would be no environmental justice issues associated with these alternatives. For those alternatives involving phaseout of storage facilities, the job loss would be very small in all cases except RFETS. Even in the case of RFETS storage facility phaseout, the employment loss would have a minimal impact on the local communities and on the regional economy. Hence, there would be no environmental justice impacts from these alternatives.

- * In the draft SWEIS (p. S-17) it is stated that at the 500 weapon activity level Pantex " would support 2,400 direct jobs and 3,949 secondary jobs" and that " personal income additions to the economy would be reduced to \$365 million annually ?
 - Please explain why this degree of economic loss would not only be an adverse but a Significant Adverse Impact to the community.
 - At the 500 weapon activity employment level what would be the impact to the revenues for the governing bodies within the Pantex ROI compared with the current revenues presented in Table 4.11.1.6-1 (p.4-165) ?

- * In the draft SSM PEIS (I-4-450) please explain the statement " The downsizing A/D and HE fabrication alternative would result in the addition of 280 workers at Pantex "
 - If the statement is incorrect what would be the result ?

M-125

WATER USAGE : PANTEX PLANT

- * Plant used 230 million gallons in 1995.
 - Texas Tech Farms used 66 million gallons (29%) of the total plant water usage.
 - Nuclear weapons operations used 163 million gallons (71%).
- * Amarillo Water District consumed 16 billion gallons in FY 1995.
- * Pantex Plant including Texas Tech Farms used 1.4% as much water as Amarillo District.
- * Nuclear weapons operations used 1% of the water used by Amarillo.
- * Considering the water also used for irrigation, the Plant withdrew 0.6% of the regional withdrawal from the Ogallala aquifer.* Nuclear weapons operations consumed 0.43% of the regional withdrawal.
- * Draft Environmental Impact Statement for the Continued Operation of the Pantex Plant and Associated Storage of Nuclear Weapon Components, March 1996, page S-15.



April 24, 1996

Secretary Hazel O'Leary
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Re: Comments on Stockpile Stewardship and Management (SSM) PEIS
and Fissile Materials Storage and Disposition (MD) PEIS

Dear Secretary O'Leary:

Under separate cover we are forwarding to your office two boxes of cards addressed to the U.S. Department of Energy, Office of Reconfiguration and the U.S. Department of Energy, Office of Fissile Materials, addressing the Stockpile Stewardship and Management (SSM) PEIS and Fissile Materials Storage and Disposition (MD) PEIS. These cards have been signed by over 6000 Amarillo residents, further emphasizing our continuing support for DOE functions in Amarillo.

1/08.03.01

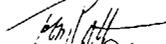
Enclosed is a copy of the card indicating support for weapons assembly and dissembly, and continuation of the high explosives function at Pantex. We shall continue to look forward to opportunities for additional stewardship functions at Pantex.

We believe Amarillo to be a strong candidate for continuing storage and future material disposition operations. We believe the community is in perfect harmony with the Department, both believing that all functions in the future should be safe and environmentally sound.

1/08.03.01
cont.

We are grateful for the Department's consideration.

Yours very truly,


Tom Patterson
President & CEO

M-204

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

AMARILLO ECONOMIC DEVELOPMENT CORPORATION,
AMARILLO, TX, BOB JUBA
PAGE 1 OF 6



April 8, 1998

U.S. Department of Energy
Office of Fissile Materials
P.O. Box 23786
Washington, DC 20029-3786

By facsimile to: 1-800/820-5158

RE: Comments and questions regarding the Storage and Disposition of Surplus Fissile Materials (S&D) Programmatic Environmental Impact Statement (PEIS)

Dear Sir or Madam:

Thank you for the chance to comment on this document that is of great importance to the Pantex Plant, and consequently to the economic vitality of the Texas panhandle.

I also appreciate DOE's commitment to operating in an environmentally sound fashion. The continuation of environmentally sound operating and management principles at Pantex supersedes and is paramount to all further comments about continuing or new missions at Pantex.

Pantex is ideally situated to continue the storage of surplus fissile materials. It makes sense logically and financially to store surplus fissile materials removed from weapons at the DOE's only assembly/disassembly site, Pantex. Further, Pantex has safely stored plutonium weapons components on-site on an interim basis since the facility began nuclear weapons operations in the early 1950s. Because it makes sense to store surplus fissile materials at Pantex, then the DOE should also consider Pantex as the preferred site for environmentally sound disposition options.

1/08.03.01

After having studied the Draft S&DPEIS documents, I offer the following comments(-) and questions(+) to the DOE for inclusion in the comment summary document:

- In the Summary (p.S-48), it is stated that, "When the other DOE programs previously identified in this section are considered, the rank order of DOE sites in terms of their descending potential for cumulative impacts changes to SRS, INEL, Pantex, NTS, Hanford and ORR." A similar statement appears on p. S-47.
 - What does this statement mean? It is obscure and demands an explanation that is concise, clear, to the point, and supported by evidence.
- In the Summary, under the environmental impacts for the No Action and Long-Term Storage alternatives "adverse impacts" on Pantex water resources are

2/09.00.08

3/09.00.04

08 03 01 **Comment Number 1**

The Department of Energy acknowledges the comment in support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

09 00 08 **Comment Number 2**

The Department of Energy did not intend to give the perception that the sites were ranked. The language in the cumulative impacts section of the Summary has been revised to better reflect the impact analysis in the Final PEIS. In addition, reference to "adverse" impacts has been deleted. Revisions made to the Final PEIS are reflected in the Summary.

09 00 04 **Comment Number 3**

Based on comments received, Section 4.2.4.4, *Water Resources*, was revised, as well as the Summary. There was no intention to "bury" impacts or to portray Pantex, the Pantex region, or the Texas Panhandle region in a negative fashion. Each DOE site was analyzed and studied in the same manner and presented in the PEIS accurately per these analyses and studies. Revisions made to the PEIS text are included in the Summary of the Final PEIS.

Office of Fissile Materials
 Page 2

shown for all alternatives except the Phaseout alternative (pp.S-18 through S-21).

In Section "4.2.4.4 Water Resources," however, the following statement is made, "In regard to all of the above alternatives and related actions, the alternatives are not expected to have an adverse impact on water resources at Pantex." (p.4-192)

- o If no adverse impacts are expected on the water resources in regard to "all alternatives and related actions," why do statements regarding "adverse impacts" to water resources at Pantex appear in the important Summary document?
- o Why is the "no adverse impacts on water resources" statement "buried" in the second of three volumes instead of showing up in the Summary document under environmental impacts?

3/09.00.04
 cont.

In the Summary it is stated (p. S-21) that "Potential adverse impacts to waste management would occur at Pantex, ORR (all three options), and SRS, because the construction of sanitary, utility, and process wastewater treatment systems to treat nonhazardous liquid wastes may be required."

4/09.11.08

- o How can the construction of facilities and systems to treat waste have the potential to adversely impact the management of waste? Is this a significant environmental impact as intended by §1502.1 of the NEPA regulations?

The Summary discusses three plutonium disposition categories (deep borehole, immobilization and reactor) consisting of nine alternatives, and ultimate high-level waste disposition.

- o If the immobilization alternatives and reactor alternatives (except CANDU) result in the same ultimate disposition, viz., a high-level waste (HLW) repository, what is the cost/benefit of the reactor alternatives?

5/07.02.00

- o Doesn't "HLW repository" mean the DOE's High-Level Nuclear Waste Repository at Yucca Mt., Nevada?

6/12.00.00

- o What would constitute ultimate disposition in the case of the CANDU reactor alternative? Would the Canadians be allowed to send the resultant high-level nuclear waste back to the U.S.?

7/12.00.00

Volume I, Summary, Attachment A, Summary table indicates that for every alternative the impact at Pantex would be the same or less than the impact at other sites under consideration.

8/08.00.00

F-012

09 11 08

Comment Number 4

The conceptual design for the consolidated and collocated storage facilities and the disposition facilities have, as part of their design, waste management facilities that would treat and package all waste generated in accordance with the *Resource Conservation and Recovery Act (RCRA)*, and other applicable Federal and State statutes and DOE Orders. The impacts of having to construct the waste management facilities are captured in other resource areas such as land use and air quality. The text referring to "potential adverse impacts" to waste management has been deleted. The commentor is correct that the construction of waste management facilities will not adversely impact the management of waste.

07 02 00

Comment Number 5

A cost analysis for the alternatives was performed concerning those activities before final disposition in a geologic repository; this cost data, along with technical and schedule data, was provided in the Technical Summary Report for disposition in July and October 1996.

12 00 00

Comment Number 6

Not necessarily. "HLW repository" refers to a high-level waste geologic repository as envisioned under the *Nuclear Waste Policy Act (NWPA)*. Although work is being done to characterize the Yucca Mountain site, no final decision regarding the suitability of Yucca Mountain has been made.

12 00 00

Comment Number 7

For the CANDU Reactor Alternative, no spent fuel would be returned to the United States. The material would become part of the Canadian spent fuel program.

08 00 00

Comment Number 8

At the time the Draft PEIS was published, DOE had not identified a Preferred Alternative. There were no preferred sites for any of the storage or disposition

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 AMARILLO, TX, BOB JUBA
 PAGE 3 OF 6

Office of Fissile Materials
 Page 3

- 8/08.00.00
 cont.
- o What is the basis for news reports indicating that other sites are leading in the consideration for this mission?
- 9/09.08.08
- Under Phaseout (p.S-21) of the S&D PEIS, the following statement is made: "All of the regional economic areas surrounding the DOE sites would experience a loss in employment with phaseout. However, compared to total employment in these areas, the loss of jobs would have no or negligible impacts at all the DOE sites."
 - o For which sites would the impact be negligible?
 - o For which sites would the impact be significant?
 - o What is the basis for determining the significance of the impacts?
 - o How does the DOE plan to use this significance in their selection process?
 - In the draft S&D PEIS, under Long-Term Storage Alternatives (p.S-48), it is stated that:

Among the DOE sites under consideration, Pantex has the greatest potential to experience adverse cumulative impacts, particularly because of its relatively small, compact area. Water resources and biological resources would be vulnerable, and land resources, air quality, cultural resources, socioeconomic, ...public and occupational health and safety, waste management, intersite transportation, and environmental justice could be susceptible to adverse cumulative impacts." (A parallel statement follows on the same page as regards the Disposition Alternatives. There is no analysis presented to support this statement.) (Emphasis added.)

The draft SWEIS, however, presents conclusions on the cumulative impacts of the Proposed Action and the draft S&D PEIS collocation alternative - the bounding alternative used for the analysis. In some cases conclusions include draft WMPEIS impacts. Quotations are from Section 4.xx.5.1 if the draft SWEIS. Conclusions are:

Plant Facilities and Infrastructure

"...additional oil...would be required. ...would increase electrical consumption from 90,200 megawatt-hours per year to a maximum of 179,814 megawatt-hours per year. ...additional electrical lines would be needed." Draft WMPEIS impacts are included. (p.4-20)

F-012

missions. A Preferred Alternative has been identified in the Final PEIS. The ROD will be based not only on environmental analyses, but also on technical, cost, national policy considerations, and public input.

09 08 08 **Comment Number 9**

With the exception of RFETS, the phaseout of existing storage facilities at DOE sites would involve, at most, the loss of 200 direct jobs (at Hanford and SRS). At Pantex, the phaseout would only affect five jobs, and at INEL no jobs would be lost. The impacts of these employment losses on the affected regional economies would be minimal. As stated in the PEIS, the regional economies in which the DOE sites are located are too large to be adversely affected by such a small decrease in employment at one site. Although the phaseout of storage facilities at RFETS would involve a greater number of workers, the impact on the regional economy would still be small since the plant is located near a large metropolitan area. The PEIS analyses (including analyses of socioeconomic impacts), as well as technical and cost studies, Nonproliferation Policy considerations, and public input will be considered by the decisionmaker in reaching the ROD.

Office of Fissile Materials
Page 4

Land Resources

"...direct effects of land use would be negligible." (p.4-25)

Geology and Soils

"No ...effects on the geologic resources are anticipated. Soil impacts during operation are expected to be minimal." (p.4-54)

Water Resources

Water for "construction and operation would require 295 million gallons per year and 301 [million(?)] gallons per year, respectively. ...increase in wastewater generation ...would be 174,000 million gallons per year. ...no exceedance of...discharge limit. During operations, wastewater would be recycled, causing no impacts." Draft WMPEIS impacts are included. (p.4-85)

Air Quality

During construction, ambient "concentrations of all pollutants...would remain within...standards. During operation, concentrations...are predicted to be in compliance..." (p.4-117)

Acoustics

"Due to the size of the site, noise emissions from construction equipment would not be expected to cause annoyance to the public." (p.4-13)

Biotic Resources

"...would disturb 232 acres of habitat. Construction would adversely affect some animal populations." (p.4-145) [Note: "Cumulative impacts to terrestrial resources or threatened and endangered species would be minimal." (S&DPEIS p.4-860)]

Cultural Resources

"Impacts to prehistoric or historic resources are not anticipated." (p.4-153)

Socioeconomic Resources

"Construction and operation of new storage facilities would require 1.524 and 676 workers, respectively." (p.4-171)

F-012

AMARILLO ECONOMIC DEVELOPMENT CORPORATION,
 AMARILLO, TX, BOB JUBA
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Intrastate Transportation - not addressed in the S&DPEIS

Waste Management

"...impact on...waste management activities by increasing the generation of TRU, LLW, LLMW, HW, and NHHW." (p.4-203) [Note: "...the worst alternative in the WMPEIS may increase the need for additional treatment facilities. The consolidation of Pu storage with HEU storage...would increase the need for treatment and disposal facilities." (S&DPEIS p. 4-861)]

Human Health

"Normal operation of the new collocated storage facility...would result in impacts that are within applicable regulatory limits. The risks of adverse health effects to the public would be small." (p.4-239)

Aircraft Accidents

Any alternative "would reduce aircraft accident probability." (p.4-252)

Interstate Transportation of Nuclear and Hazardous Materials

"...the potential fatalities would be .481" from transportation of Pu and HEU from storage sites to Pantex. (p.4-274) [Note: Total potential fatalities range from .293 to 1.080 at the six candidate sites; only ORR has a smaller impact than Pantex. A footnote states that the results are from radiological and nonradio-logical risk for the life of the project. (S&DPEIS p.4-778)]

Environmental Justice

"...if there were any health impacts...these impacts would not appear to disproportionately affect minority or low-income populations." (p.4-285)

The statements make it appear that it is DOE's intention to eliminate Pantex from consideration as a long-term storage site.

Please enumerate which cumulative impacts are potentially adverse and explain why you believe each is greatest at Pantex. In each case, please discuss the basis for the conclusion and whether you think the potential adverse cumulative impact is significant as a discriminator among sites.

10/09.00.04

The socioeconomic analyses of the three EISs are not consistent. The SWEIS (p.S-17) assumes 1.65 indirect jobs in the region for every job at Pantex. The

11/09.08.04

F-012

09 00 04

Comment Number 10

The Department of Energy did not intend to give the perception that the sites were ranked. The cumulative impact analysis in Section 4.7 of the PEIS does not attempt to rank the potential for cumulative impacts at the sites. The language in the Summary has been revised to better reflect the impact analysis in Section 4.7.

09 08 04

Comment Number 11

Projections of the number of indirect jobs generated depend on a number of factors, including the activity performed, the type of data used, and the methodology employed. The Storage and Disposition PEIS evaluates the socioeconomic impacts for the storage and disposition of fissile materials at Pantex, while the Stockpile Stewardship and Management PEIS evaluated the impacts of weapon assembly and disassembly operations. The activities of the two programs are quite different and each requires very different inputs. The availability of inputs within the region determines the size of the multiplier.

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Page 6

SSMPEIS (p.S-32) assumes 1.16 and the S&DPEIS (p.4-205) assumes 3.51.

11/09.08.04
cont.

o Please explain these differences.

- The Amarillo Economic Development Commission (AEDC) analysis, based on local knowledge of the area and a regional impact study performed by Dr. Ray Perryman of Southern Methodist University, gives a ratio of 2.87 additional jobs in the region to every one Pantex job (for a total job multiplier of 3.87).

12/09.08.04

o Why didn't the DOE consult with the AEDC and/or the City of Amarillo and use the expert analysis that local taxpayers had already paid for?

- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, and President Clinton's February 11, 1994, Memorandum for the Heads of all Departments and Agencies requires an analysis of environmental effects on low-income and minority populations to include human health, social, and economic effects.

13/09.12.08

o Why do the draft SWEIS, SSMPEIS, and S&DPEIS analyze only human health effects of the proposed actions and not the social and economic effects, as required?

Thank you for your attention to these comments and questions.

Sincerely,



Bob Juba
Pantex Retention and Expansion Coordinator

cc: Hon. Mac Thornberry
Hon. Kel Seliger

F-012

09 08 04

Comment Number 12

The number of indirect jobs generated by the Proposed Alternatives was based on the RIMS II model developed by BEA. The multipliers used in the model are available for every economic region in the Nation (each of the DOE sites). This allowed a consistent method to be applied to all sites. Site-specific numbers should be used in site-specific EISs. Section 4.1.8 of the PEIS has been modified to clarify the utilization of the RIMS II model.

09 12 08

Comment Number 13

Socioeconomic impacts are analyzed in detail in all of the environmental statements noted by the commentor. The PEIS analyzes potential socioeconomic impacts for all of the alternatives. For those alternatives that would add a new mission to a particular DOE site, there would be no adverse socioeconomic impacts. In fact, the analyses indicate that the impacts of these alternatives would be small but beneficial to the affected regional economies. There would be no environmental justice issues associated with these alternatives.

AMARILLO ECONOMIC DEVELOPMENT CORPORATION,
AMARILLO, TX, VANCE REED
PAGE 1 OF 2

Mr. Vance Reed
President, Amarillo Economic Development Corporation

Comments on the Stockpile Stewardship & Management PEIS,
the Storage & Disposition of Fissile Materials PEIS, and
the Pantex Site-Wide EIS

Thank you for this opportunity to provide input to the Department of Energy regarding the operation of the Pantex plant. I would like to address two primary issues tonight regarding Pantex's future: 1) the environment, and 2) jobs.

Starting with the environment, I would like to reiterate this community's adamant position that all work performed at Pantex continue to be done in a fashion that protects the environment. While the public has heard a great deal about "contamination" at Pantex, there has been little media attention given to the nature of pollution problems at Pantex. Most contaminants at Pantex are related to solvents and hydrocarbons that are very similar to those that would be found at practically any large manufacturing facility. This community is very reassured by the fact that Pantex has not had contamination problems from radioactive materials, such as occurred at Rocky Flats and Hanford.

The Amarillo Economic Development Corporation views Pantex in much the same manner as we view other large manufacturers in terms of presenting risks to the environment. For instance, if we were recruiting a computer chip manufacturer, we would realize that these plants have hazardous waste streams including arsenic and other heavy metals. The A.E.D.C. would only recruit a company that is committed to full compliance with E.P.A. and state environmental regulations. High tech businesses have created whole new industries and thousands of jobs, while working with very hazardous substances. This shows that protection of the environment and job creation can go hand-in-hand.

Likewise, we believe that Pantex can be a site where good, high-paying jobs are created in a work environment that includes potentially dangerous materials. When

TX-038

measured in terms of total payroll, Pantex is by far the area's largest employer. With 3,500 employees at the plant, a job multiplier of 3.87 shows that Pantex is responsible for a total of over 13,500 jobs in this region. This multiplier was established by Dr. Ray Perryman at Southern Methodist University. The multiplier reflects the fact that the money that Pantex brings into the local economy supports many retail, medical, educational, finance, insurance and real estate jobs. All told, employment related to Pantex represents over 12% of all jobs in the Amarillo metropolitan area. I urge the D.O.E. to correct the socio-economic impact portions of all three EIS documents to accurately reflect the impact of Pantex on our local economy.

1/09.08.04

Because of the importance of Pantex to our local economy, the A.E.D.C. is very pleased that Pantex has been chosen as the preferred site for continued assembly and disassembly functions. We also believe this decision is in the best economic interests of the nation, as it saves more than 1.5 Billion dollars to American taxpayers. I also urge the D.O.E. to continue the high explosive fabrication mission that is currently performed at Pantex. Again, this not only protects jobs in our region, it saves American taxpayers 50 Million dollars compared with the cost of moving these operations to New Mexico.

For Pantex's future, the D.O.E. should locate storage and disposition missions at Pantex, as long as they can be done in an environmentally safe fashion. I urge the Department to make use of the expertise of the Amarillo National Resource Center for Plutonium. This resource center, which is operated by the University of Texas System, the Texas A&M University System, and the Texas Tech University System, can provide world-class evaluation of disposition options. I believe the Amarillo area will prove to be an outstanding operating environment for those storage and disposition functions that have been fully scientifically evaluated and safely implemented.

2/08.03.01

3/15.00.00

Once again, thank you for the opportunity to address you in this workshop tonight.

TX-038

09 08 04

Comment Number 1

The number of indirect jobs generated by the Proposed Alternatives was derived using the RIMS II model developed by BEA. The multipliers used in the model are available for every economic region in the Nation (each of the DOE sites). This allowed a consistent method to be applied to all sites. Site-specific numbers should be used in site-specific EISs. Section 4.1.8 of the PEIS has been modified to clarify the utilization of the RIMS II model.

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

15 00 00

Comment Number 3

Comment noted. The Amarillo National Research Center for Plutonium currently provides support to DOE for the Materials Disposition Program.

AMARILLO NATIONAL BANK, AMARILLO, TX,
 GARY MOLBERG
 PAGE 1 OF 2



Amarillo National Bank

GARY MOLBERG
 VICE PRESIDENT
 AND
 MARKETING DIRECTOR

April, 3, 1996

U.S. Department of Energy
 Office of Fissile Materials
 PO Box 23786
 Washington, DC 20026

RE: Comment on stockpile Stewardship and Management (SSM) and Storage and Disposition (S&D) of Weapons-Usable Fissile materials Draft Programmatic Environmental Impact Statements (PEISs).

Thank you for the opportunity to comment on the U.S. Departments of Energy's (DOE) Programmatic Environmental Impact Statements (PEISs) on Stockpile Stewardship and Management (SSM) and Storage and Disposition (S&D) of Weapons-Usable Fissile Materials. Please also consider this my comment on the Pantex Site-Wide Draft Environmental Impact Statement, since most of the issues addressed in these documents are identical.

I strongly believe that any current and future functions at Pantex will be conducted in a safe and environmentally sound manner. Our first priority is to ensure any expansion at Pantex be implemented in a way that does not impair the health or safety of area residents or have an adverse affect on the environment. These goals serve as a prerequisite to any current or future activities at Pantex, including expansion.

1/09.00.04

I. Generally. I am pleased that the DOE selected Pantex as the preferred alternative for assembly and disassembly and has canceled all plans to transfer this to the Nevada Test Site (NTS). Pantex is the best site for maintaining the integrity of the U.S. Nuclear stockpile and attaining maximum efficiencies and cost savings.

II. Stockpile Stewardship and Management & Programmatic Environmental impact Statements

1. Pantex is the best place to site new construction/stewardship activities. Pantex is the most cost-effective for any new construction of SSM facilities. First, the labor costs, utility rates, and water and land availability at Pantex as well as political and public

M-012

09 00 04

Comment Number 1

Potential environmental consequences of each Pantex alternative were analyzed in the PEIS. Results of these environmental analyses will be given full weight, along with other factors such as cost, technical risk, schedule, and national security requirements, in the process of selecting the storage strategy and site and disposition strategy and technology for the Fissile Materials Disposition Program. Pantex will continue to operate in compliance with all Federal, State, and local regulations.

AMARILLO NATIONAL BANK, AMARILLO, TX,

GARY MOLBERG

PAGE 2 OF 2

support, are more amendable than those at any other Complex site. The location of additional defense-related activities at Pantex would ensure that core technical capabilities are preserved at a location that can secure them at the most efficient cost to the American people. In its deliberations, DOE should insist that budgetary comparisons between Pantex and the other sites are accurate, and include capital, transportation, training, remediation, and other costs.

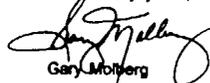
2. Pantex is the best site to continue High Explosives fabrication. Consistent with the strengths listed above for increased stewardship and management duties, the high explosives (HE) functions should also remain at Pantex. It is only logical that if assembly/disassembly functions remain at Pantex then the HE fabrications should also be present at the corresponding site. Pantex must retain HE capabilities in order to process the inventories already on site for dismantling. Transferring of HE functions from Pantex will cost tax payers from \$40 to \$50 Million. It is also important to have HE facilities at weapons production/assembly site if there should ever be a need for new weapons production.

III. Fissile Materials (Plutonium) Storage and Disposition PEIS. Pantex has handled assembly and disassembly of nuclear weapons for more than 40 years and has done so in a safe and efficient manner. A challenge faced after dismantling a significant portion of nuclear stockpile is processing or disposal of the materials that remain. Pantex could continue to store plutonium which is already at the site and upgrade facilities for any and all storage options being considered by the DOE. This could all be done at minimal cost and difficulty.

2/08.03.01

IV. Conclusion. Based upon these reasons, I respectfully urge DOE to designate Pantex as the preferred alternative site for all existing and new stockpile management and stewardship functions as well as consolidation of all plutonium storage and disposition and any related functions. Thank you for the opportunity to comment on these documents.

Respectfully yours,


Gary Molberg

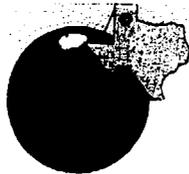
M-012

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

AMARILLO NATIONAL RESOURCE CENTER FOR PLUTONIUM,
AMARILLO, TX, DALE E. KLEIN
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Amarillo National Resource Center for Plutonium

A Higher Education Consortium of The Texas A&M University System, Texas Tech University, and The University of Texas System

June 6, 1996

Department of Energy
Office of Fissile Materials Disposition
PO Box 23786
Washington, DC 20026-3786

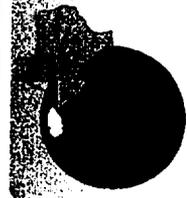
The Amarillo National Resource Center for Plutonium's Senior Technical Review Group has reviewed portions of the Storage and Disposition of Weapons-Useable Fissile Materials Draft Programmatic Environmental Impact Statement. After careful and deliberate discussion, the Group agreed upon the enclosed comments, and we hereby formally submit them as part of the formal public comment period for the draft PEIS, which ends June 7, 1996.

We very much appreciate the opportunity for our Review Group to comment, and look forward to the Department's response.

Sincerely,

Dale E. Klein
Governing Board Chairman

Enclosure



Amarillo National Resource Center for Plutonium
A Higher Education Consortium of the Texas A&M University System, Texas Tech University, and the University of Texas System

**Comments and Recommendations
Based on the PEIS Briefings
and
Reactor-Based Plutonium Disposition Options**

Submitted By

**Senior Technical Review Group
Amarillo National Resource Center for Plutonium**

March 1996

600 South Teller • Suite 800 • Mail Box 17040K • Amarillo, TX 79101 • 806.376.5537 • Fax: 806.376.6521

F-049

AMARILLO NATIONAL RESOURCE CENTER FOR PLUTONIUM,
 AMARILLO, TX, DALE E. KLEIN
 PAGE 3 OF 8

A Report of the
 Senior Technical Review Group
 March 1996

The Senior Technical Review group met on March 11 and 12, 1996, to review the Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic Environmental Impact Statement, and to review the reactor-based plutonium disposition options.

The Group once again emphasized the urgency of both the U.S. and Russia moving forward with selecting and implementing plutonium disposition options.

Comments and recommendations based on the PEIS briefing:

The DOE representatives gave a reasonably detailed presentation on the draft PEIS on "Storage and Disposition of Weapons-Usable Fissile Materials." Based on this presentation and an examination of several parts of the Summary document, the Review Group has several concerns, indicated in the following comments.

The absence of significant discussion on safeguards and security in the presentation was striking. We understand this is a result of limitations on what is to be included in a PEIS. We further understand that the PEIS is only one of three "pathways" to the decision on storage and disposition of weapons materials, the other two being costs and proliferation issues. (This is clearly described on page S-1.) However we believe any public discussion of the PEIS should explicitly describe these three factors because the fundamental concerns relate to the safeguards and security aspects.

1/01.06.00

We are skeptical about the feasibility of the deep borehole concept, which has been included as a "reasonable" disposition option. Obtaining approval for a site will be difficult. Licensing the site for an approach never examined by EPA or NRC will be extremely time consuming. We realize that the deep borehole concept has some potential advantages, but we remain skeptical about being able to achieve these on a competitive timescale. Proceeding with this option is inconsistent with our previous recommendation to proceed with plutonium disposition on an urgent basis. In our judgement, this option should not be described as "reasonable" but, rather, as "not necessarily unreasonable".

2/04.04.00

We were surprised to find that electrometallurgical treatment continues as a "reasonable" option for immobilization. Previous presentations to the Review Group had indicated this approach was being dropped. We believe it should have been.

3/01.04.00

Some of the Review group believe that elimination from the PEIS of the European MOX fabrication/irradiation option is inappropriate and decidedly premature. Under NEPA, exclusion of this option from the PEIS will preclude further consideration. However, environmental impacts of this option are almost exclusively overseas and are therefore excluded from NEPA coverage. Thus, there is no environmental impact basis for excluding the option. The reason cited for elimination of this option is that European fabricators have expressed an unwillingness to fabricate U.S. plutonium for irradiation in European reactors primarily because of the fabricators' concern that this would have an adverse impact upon the market for reprocessing services, which they also offer. This objection, however, would not necessarily apply to a limited program of irradiating a few assemblies or even a few reloads. Moreover, commercial objections might be subject to reversal for policy reasons and because of future changes in the market. Indeed reactor grade MOX fabrication and irradiation already are licensed and commercially proven activities in Europe. NRC licensing of MOX might be achieved quickly, but there is no guarantee of this. This existing capability provides the potential for acceleration of the disposition process if the political and commercial problems, as well as transportation issues, can be resolved. Therefore some members

4/06.01.08

F-049

01 06 00

Comment Number 1

The purpose of the Proposed Action is, in part, to establish the technical and program infrastructure that will enable the United States to take unilateral action or negotiate reciprocal actions with other nations for the disposition of surplus weapons-usable Pu. This PEIS addresses the environmental impacts of the reasonable alternatives for DOE's Proposed Action. Analyses of the cost, schedule, technical, and Nonproliferation Policy impacts are described in separate documents to support DOE's ROD. The technical, cost, and schedule documents were made available for public review beginning in July 1996. The nonproliferation analysis was made available to public beginning in October 1996. DOE also conducted a series of public meetings, prior to the issuance of the Final PEIS, to discuss the analysis of the Nonproliferation Policy as it relates to the PEIS alternatives.

04 04 00

Comment Number 2

Comment noted.

01 04 00

Comment Number 3

The *National Environmental Policy Act* requires consideration of all reasonable alternatives. Although the Electrometallurgical Treatment Alternative for disposition of weapons-usable Pu is not as technically mature as other alternatives considered in the PEIS, it was considered to have sufficient maturity to be retained as an alternative in the Final PEIS. Further, the National Academy of Sciences (NAS) recognized this alternative, dependant upon successful demonstration. Section 2.4.4.3 of the Final PEIS has been modified to note recent conclusions from the National Research Council.

06 01 08

Comment Number 4

Comment noted. The basis for exclusion of the European MOX Fabrication/Irradiation Option is included in the Screening Report. Section 2.1.4 of the PEIS provides further explanation on the exclusion of this alternative, due to a lack of capacity to complete the disposition mission, the institutional complexities such as transportation, security, and other geopolitical factors.

of the Review Group believe that the European pathway to early implementation, particularly through initial demonstrations of the disposition process, should not be foreclosed at this time.

4/06.01.08
 cont.

The Summary (page S-15) indicates the possibility of using LWRs both for the disposition of plutonium and for the production of tritium. We consider that, both from a policy and public perspective, these two requirements should be kept separate, and should not be accomplished in the same reactor or reactors. The Office of Fissile Material Disposition should be involved only in the various aspects of storage and disposition of plutonium and HEU, and not in the production of new weapons material.

5/11.00.08

Finally, the Review Group strongly objects to misleading presentations in the Summary, for example, of what are purportedly calculations of latent cancer fatalities in the public and the work force for various disposition options. While we have not reviewed the entire draft PEIS, the following comments, based upon review of the Summary, indicate our concerns:

6/16.00.00

(1) We were informed that it was assumed that new nuclear plants would not displace any existing operating units of any kind. This is an insupportable assumption.

7/06.04.08

(2) Figures S-14 through S-18, S-23, S-25, S-27 through S-31, and S-39 through S-44 are unclear in their comparison among existing LWRs, partially completed LWRs, and evolutionary LWRs. A reader easily could conclude that evolutionary LWRs will cause more latent cancer fatalities, emit more radiation and produce more radioactive waste than existing LWRs. Yet they have been designed to reduce both radioactive emissions and radioactive waste. We were informed that these descriptions were based on two requirements: (a) actual data were used for existing plants, but maximum allowable limits were used for unfinished or evolutionary plants; (b) no error bars or uncertainty limits were allowed to be used, leading the reader to conclude the graphs are accurate. Both requirements lead to highly misleading presentations, which are accentuated by not having an explanation in appendices A and B to put the calculations into perspective. We understand that the DOE Office of General Counsel ordered that no error bars be shown. The General Counsel should be asked to reconsider this order since it affects the determination of technical issues.

(3) The figures used to describe the impact of the proposed operations are misleading as they lack the perspective of existing baseline values and, in some instances, a time-frame. Also the scales on which the data are displayed exaggerate very small effects. For example:

8/01.00.00

a) Figures S-17 and S-18 are for the life of operation. They indicate that during this period the operation's radiological impact on cancer fatalities would be less than 3.5 or less than 6 additional cancer deaths among the resident and worker populations, respectively. However, they do not reflect the several million "spontaneous" (non-radiation related) cancer deaths that would be expected to occur among these populations during the same period. Nor do they indicate the bounds of the uncertainties around these estimates, thus the reader could conclude that the estimates are precise. However, both BEIR and NCRP have indicated that, at very low doses, zero effect is within the range of likelihood. Specifically the National Committee for Radiation Protection, in Report #121, 'Principles and Application of Collective Dose in Radiation Protection', recommends "When the collective dose is smaller than the reciprocal of the relevant risk coefficient, the risk assessment should note that the most likely number of excess cancer deaths is zero. This recommendation applies in this case, which the reader can only discover by reading the Appendices carefully."

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However the option is retained for the utilization of European MOX fabrication to fulfill short term MOX fuel needs as explained in Section 2.4.5.1 of the PEIS.

11 00 08 **Comment Number 5**

Comment noted.

16 00 00 **Comment Number 6**

Based on comments received, the Summary for the Draft PEIS was revised. Revisions made in the Final PEIS are reflected in the Summary.

06 04 08 **Comment Number 7**

If a new reactor was built, it would operate to provide electricity to a competitive marketplace. No displacement of existing capacity per se is envisioned but the market would be the arbiter of any displacement.

01 00 00 **Comment Number 8**

Based on public comments, the Summary of the Draft PEIS was revised. The Comparison of Alternatives charts (figures) were removed, and the text was expanded and revised. Chapter 4 of the PEIS has been revised to include an explanation of low doses. Chapter 4 has also been revised to reflect "total" impacts and wastes from operating existing LWRs using MOX fuel, as well as the "net" incremental impacts (that is, the difference in spent fuel between uranium-fueled and MOX-fueled operations).

AMARILLO NATIONAL RESOURCE CENTER FOR PLUTONIUM,
 AMARILLO, TX, DALE E. KLEIN
 PAGE 5 OF 8

b) Figure S-22 is another example of deceptive graphics in which the graphics developed to describe risks misrepresent the impact of the proposed operations in that they do not include baseline values (levels). The reader will not realize that the chart shows additional low level waste generated by the alternatives. The several thousand times greater volume generated by evolutionary LWRs compared to existing LWRs is because the large volume generated by the existing LWRs is not included in the chart. Also, Figures S-4 through S-13 give no indication whether they represent total or additions to existing quantities or, for that matter, whether the numbers shown for different options have been calculated on the same basis.

8/01.00.00
 cont.

We recommend that the figures be revised where applicable to reflect existing operations and the cancer death rate among the general, non-exposed population.

(4) In several parts of the text, it is stated that "the dose to the population living within 80 km (50 mi) of the site would be within 100 person-rem per year". However, the reader is not told whether this is acceptable or how it compares with other population doses, including those received from natural sources.

9/09.09.08

In summary, the Review Group is skeptical about some of the retained alternatives, disturbed about the misleading character of the Summary, and concerned about the lack of discussion of the major reason for the program, i.e., the safeguards and security (or proliferation) issue.

Comments on Reactor Disposition Options

The DOE Team presented the status of the efforts to evaluate the disposition option that would utilize LWRs or CANDUs. The STRG's comments on the review are as follows:

LWR OPTIONS

The team reported that the major technical focus in utilizing LWRs has been on full core loading of mixed U-Pu oxide (full MOX core), revealing some developmental issues primarily associated with relatively new applications of burnable absorbers. To avoid potential delays in resolving these technical issues and in licensing a newer technology, DOE has shifted its emphasis to evaluating partial (1/3) core loading of MOX fuel.

10/08.03.01

While disappointed that the DOE did not begin by focusing on the 1/3rd core option, the STRG endorses this shift and a strategy that would apply the partial MOX core in the initial stages of a disposition campaign, followed by full MOX core applications when the developmental problems are resolved. The STRG recommends that this strategy, including development work, be defined in detail, along with an implementation plan that reflects the urgency of starting a disposition option. The strategy and implementation plan should include the following characteristics:

11/07.00.00

(1) Proven technology for the initial applications:

-MOX fuel and reactor designs should be patterned on existing commercial MOX experience; European design and operational experience should be utilized fully. DOE should consider obtaining all such pertinent experience from the Europeans and make it available to U.S. utilities that have shown strong interest in the MOX disposition option.

12/06.02.08

-Changes in the number of control rods or the configuration of the reactor vessel head or internals should be barred from consideration for partial core loading.

F-049

09 09 08 Comment Number 9

Proposed 10 CFR part 834 (see 58 FR 16268) would require an as low as reasonably achievable (ALARA) program and would generally limit the potential annual population dose to 100 person-roentgen equivalent man (rem)/year (yr) from all pathways combined for DOE activities. The radiation exposure to the public is limited by the maximum individual dose of 100 millirem (mrem)/yr. To compare the population dose from the Proposed Alternatives to the natural background radiation, the PEIS presented the percentage of the population dose for each alternative relative to the natural background radiation.

08 03 01 Comment Number 10

The Department of Energy acknowledges the commentator's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input. The environmental analyses included in the PEIS and the technical cost and schedule analyses included in the Technical Summary Report addresses both full and partial MOX cores.

07 00 00 Comment Number 11

Generally, the goal is to complete disposition within 25 years after the ROD. The storage decision will be for long-term storage, up to 50 years. Schedule data, along with technical and cost data, were provided in Technical Summary Reports of both storage and disposition in late July 1996.

06 02 08 Comment Number 12

The reactor cores and the reactor vessel designs would be engineered when particular reactors are selected. Although significant modifications are not envisioned, precluding design and hardware changes to existing reactors need not occur. All necessary changes will be considered in costing the alternatives. In considering necessary reactor modifications all available information, including European experience as applicable, will be utilized.

-Pu metal conversion processes should be selected that will provide oxide with essentially the same characteristics as present commercially used MOX, (excepting the Pu isotopic distribution and possibly some gallium residue in the MOX fuel).	13/03.02.08
-Existing facilities should be used wherever practical at each stage (conversion, fuel fabrication, and reactor operation). There is potential through this approach to reduce the time to start the disposition and the costs of the disposition process as well as to minimize the introduction of new facilities which will later have to be decommissioned. DOE should also take into account potential difficulties in documenting design basis and equipment qualifications for existing facilities. The STRG concurs with the DOE position to consider initially only those reactors that will not require license renewal or extension during the length of the disposition program.	14/01.02.00
(2) Program Acceleration Planning	
-The STRG is concerned that there is an insufficient sense of urgency in pursuing the disposition options. The new formulation of strategy and planning should place first priority on timeliness, given that the security and health & safety requirements are met. Cost is an important factor but should not be subjugated to timeliness.	15/07.01.00
-Emphasis should be given to narrowing down the reactor burning options to permit greater focus. Seventeen sub options in this category were identified as still under evaluation.	
-In-depth review of licensing issues should be sought with NRC on the several vendor partial MOX core designs, including the impact of the weapons Pu isotopic distribution.	
-The STRG considers it important to demonstrate as soon as possible the adequacy of full scale MOX fuel assemblies derived from weapons grade Pu. Specifically:	
(a) Since MOX fabrication appears to be on the critical path, strategies should be defined to accelerate the fabrication of such demonstration lead assemblies. European commercial facilities should be considered as well as experimental-level facilities in the U.S. National Laboratories.	16/06.01.08
(b) Early demonstration of lead MOX fuel assembly irradiation in commercial reactors should be sought, including European reactors that are already licensed for MOX operation. Elimination of the Euratom MOX fabrication/reactor burning option should be reconsidered if elimination would preclude such early demonstrations.	17/06.01.08
-The DOE team cited many political and commercial difficulties in utilizing western European capability for the reactor disposition option. Since there is high technical potential to start the process much sooner by that route, the political and commercial issues should continue to be addressed aggressively.	
(3) Necessary R&D	
-An effective R&D program should be mounted to evolve as rapidly as possible to the utilization of full MOX core so as to minimize the number of reactor sites and their auxiliary facilities and associated transportation and security requirements.	18/06.01.08
-The R&D program will need to include in the development of MOX fuel fabrication facilities the impact of using new burnable absorbers as well as reactor design and fuel reliability issues related to new burnable absorber design features.	19/06.01.08
F-049	

03 02 08 Comment Number 13

If a Reactor Alternative is chosen as part of the ROD for Pu disposition, the MOX fuel fabrication process would meet all the appropriate reactor fuel specifications. The feed material needed to fabricate MOX fuel, produced using pit and non-pit processing technologies, would meet the specifications of the MOX process.

01 02 00 Comment Number 14

Comment noted.

07 01 00 Comment Number 15

The Department of Energy recognizes the "sense of urgency" for timely disposition of surplus Pu. Accordingly, in the ROD for this PEIS, DOE will select a technology strategy for disposition with the goal to complete disposition within 25 years thereafter. Schedule data were provided in the Technical Summary Report in late July and October 1996; this information will be considered in the ROD. Furthermore, DOE will immediately begin preparation of tiered NEPA reviews to analyze specific locations and technology variants for disposition activities, and will begin disposition immediately following the tiered, location-specific decisions.

06 01 08 Comment Number 16

Fabrication and use of MOX fuel using reactor-grade Pu is a mature, industrial scale technology in Europe with at least three vendors actively fabricating MOX fuel. There are some differences introduced by the use of weapons-grade Pu, which DOE is addressing as part of an ongoing weapons-grade MOX fuel research and testing program.

06 01 08 Comment Number 17

The Department of Energy is moving forward with activities to test the fabrication of MOX fuel from weapons-usable Pu and its performance in LWRs and heavy water reactors.

AMARILLO NATIONAL RESOURCE CENTER FOR PLUTONIUM,
 AMARILLO, TX, DALE E. KLEIN
 PAGE 7 OF 8

(4) Scope	
-All criteria governing the disposition process should be included in the strategy and planning. Security and proliferation resistance should be treated explicitly, criteria that were not strongly treated during the DOE team presentations.	14/01.02.00 cont.
-Arbitrary budget constraints, as distinct from defining a focused, cost effective plan, should not be imposed on the planning process. The appropriate full scope of the needed program should be defined, permitting a later, more intelligent application of budget restraints if necessary.	20/07.00.00
CANDU OPTIONS	
The DOE team reported that no technical difficulties had arisen in the full core MOX application, that the much shorter fuel pins could be more easily handled in the existing MOX fabrication facility (FMEF) at Hanford, and that political acceptance at this time in Canada was good although the new administration was reviewing the issue.	21/06.05.08
The small size of the CANDU assemblies raises questions as to the sufficiency of the radiation barrier to comply with the spent fuel standard. The proposed solution was to raise their proliferation resistance to the LWR spent fuel level by latching many assemblies together to increase the radiation level and make them more bulky. Effort is also underway to raise the Pu level in the design to try to achieve a fuel cost reduction of about a factor of two.	22/06.05.08
The STRG comments on the LWR option also apply to the CANDU option where applicable. Further, the fact that CANDU reactors use on line refueling could result in some increase in proliferation risks.	23/01.03.00
JOINT U.S./RUSSIAN STUDIES	
The LWR disposition option is included in an overall study with the Russians of a broad array of disposition options. This effort is particularly important since it provides the potential for a "middle way" for Russian cooperation (quid pro quo) in the disposition process: between their present preference for the untimely and costly fast reactor disposition option and their complete rejection of weapons Pu direct disposal and immobilization options. This prospect is justification in itself for vigorous pursuit by the U.S. of the LWR disposition option.	24/01.02.00
SPENT FUEL STANDARD	
In defining the components of the spent fuel standard, isotopic denaturing should be included. Although the practical level of isotopic denaturing does not eliminate potential diversion for terrorist nuclear explosive use, it is a significant additional barrier to host nation re-use or rump nation military use.	25/11.01.08
UTILITY COOPERATION IN THE MOX FUEL DISPOSITION PROCESS	
The efforts to explore the interest of the utilities in assisting in the commercial LWR disposition option are important to achieving timely implementation of the option. There is concern, however, that the incorporation of a tritium production mission with the excess weapons Pu disposition mission will introduce complexity, delay, and increased public apprehension into the disposition mission. The STRG also expressed concern on reversing the long-standing U.S. policy of separating nuclear weapons production from nuclear electricity production. As indicated in the STRG comments on the draft PEIS, the Office of Fissile Material Disposition should be involved only in the various aspects of storage and disposition of weapons grade Pu and highly enriched U	
	F-049

06 01 08 **Comment Number 18**

The Department of Energy is considering the possible use of full MOX cores for the reactor disposition of surplus Pu. Uncertainties with the use of full MOX cores are being evaluated as part of the fuel qualification program.

06 01 08 **Comment Number 19**

Comment noted.

07 00 00 **Comment Number 20**

Comment noted.

06 05 08 **Comment Number 21**

The Canadian proposal is to fasten 24 fuel bundles into a module to increase the size, weight, and radiation level and achieve the same resistance to theft and diversion as LWR spent fuel. The online refueling will require additional efforts to safeguard the CANDU reactor, but is achievable (see *Draft Nonproliferation and Arms Control Assessment of Weapons-Usable Fissile Materials Storage and Plutonium Disposition Alternatives*, October 1996).

06 05 08 **Comment Number 22**

Although CANDU reactors require more intensive actions to safeguard than LWRs, International Atomic Energy Agency (IAEA) safeguards are already in place for CANDU reactors in Canada, irrespective of the Pu disposition mission.

01 03 00 **Comment Number 23**

Comment noted.

01 02 00 **Comment Number 24**

Isotopic denaturing is not considered a proven technology for Pu disposition and would take time for it to be proven. This would not meet the schedule and cost criteria for consideration as a reasonable alternative for implementation.

11 01 08

Comment Number 25

Comment noted.

AMERICAN FRIENDS SERVICE COMMITTEE, DENVER, CO,
RALPH HUTCHISON
PAGE 1 OF 4

6 May 1996

The Honorable Hazel O'Leary
United States Department of Energy
1000 Independence Avenue SW
Washington, DC 20085

Dear Secretary O'Leary:

In February of 1996, the Department of Energy (DOE) released the Draft Programmatic Environmental Impact Statement (PEIS) on the Storage and Disposition of Weapons-Usable Fissile Materials. We are gravely concerned that the document itself, as well as several aspects of DOE's approach to disposing of weapons-usable fissile materials, is substantially flawed. We have outlined our primary concerns below, and request that DOE provide another opportunity for public comment after these concerns are addressed in a revised Draft PEIS.

1/08.03.01

Disposing of surplus plutonium and highly-enriched uranium is one of the most urgent and significant international security matters of our time. The National Environmental Policy Act (NEPA) dictates that DOE present a credible and accurate discussion of reasonable alternatives in its review of this issue. Further, the potential consequences of an inappropriate decision compel DOE to demonstrate better than its normal quality of NEPA performance - ensuring particularly that the nonproliferation and cumulative impacts of its decision are soundly addressed. The current Draft PEIS meets neither of these standards.

2/01.00.00

The most glaring lapse is the continuing confusion between the objectives of fissile materials disposition and nuclear industry subsidization. For environmental, nonproliferation, economic, and other policy reasons, the proposed use of mixed oxide (MOX) fuel as a means of plutonium disposition should be flatly rejected as unreasonable. In the presence of other means to safely dispose of excess plutonium, there is no sound reason whatsoever for giving as much credence to a MOX alternative(s) as DOE does in the Draft PEIS.

3/01.02.00

4/08.03.01

The only apparent reason for continuing to emphasize the use of MOX fuel is pressure from people who stand to gain economically and/or politically from its selection. The Draft PEIS is woefully inadequate in its consideration of the nonproliferation and cumulative impacts of this alternative. A more thorough analysis of MOX use would raise significant concerns about, for example, its link to future reprocessing and long-term US policy regarding reliance on a plutonium fuel cycle. Any analysis of MOX fuel for plutonium disposition which does not thoroughly and explicitly evaluate such related matters is insufficient and should not be the basis for decisions.

5/06.01.08

In addition to these far reaching policy concerns, the Draft PEIS fails to adequately discuss safety issues associated with the use of MOX fuel. The Draft PEIS, for instance, does not adequately consider the high thermal power of MOX spent fuel and the related implications for the cost and safety of a high-level waste repository. This issue was raised by the National Academy of Sciences in its 1995 reactor options study for

6/09.09.08

M-242

08 03 01

Comment Number 1

As noted in presentations at the public meetings, DOE welcomes public input throughout the decisionmaking process, which includes the formal NEPA comment periods, scoping, and reviewing the Draft PEIS, as well as during the period of time after issuance of the Final PEIS leading up to the ROD. DOE believes that the Draft PEIS was adequate for the purposes of soliciting public comments, and does not intend to issue another draft.

01 00 00

Comment Number 2

The Final PEIS has been revised to reflect comments received, including revisions to cumulative impacts in Section 4.7. Analyses of nonproliferation impacts are presented in a separate document, *Nonproliferation and Arms Control Assessment of Weapons-Usable Fissile Material Storage and Plutonium Disposition Alternatives*, and will be considered in DOE's ROD. This document was available for public review in October 1996 and public meetings were held in October and November 1996 on this nonproliferation study.

01 02 00

Comment Number 3

The Department of Energy is complying with NEPA by analyzing a range of reasonable alternatives for implementation of the Proposed Action. Accomplishing nonproliferation and meeting the intent of the Spent Fuel Standard is not a subsidization of the nuclear industry. This can be achieved through any of three disposition categories; Reactors, Immobilization, or Deep Borehole.

08 03 01

Comment Number 4

The Department of Energy acknowledges the commentor's opposition to the Reactor Alternative using MOX fuel. Decisions on disposition of weapons-usable fissile materials will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input. The NAS considered the use of the Reactor Alternatives using MOX fuel as a disposition option. This was further considered and confirmed in the Screening Report. Therefore, the Reactor Alternatives using MOX fuel are reasonable alternatives under NEPA, and accordingly the PEIS provided a complete analysis of the reactor alternatives.

plutonium disposition. The Draft PEIS also inadequately addresses the potentially greater consequences of an accident in a reactor loaded with MOX fuel.

6/09.09.08
 cont.

The consideration of MOX fuel is not the only deficiency in the Draft PEIS. The document fails to consider all reasonable alternatives for the long-term storage of weapons-usable fissile materials, particularly plutonium pits. The Pantex Site-Wide Environmental Impact Statement acknowledges that interim storage of pits at Department of Defense (DOD) facilities, specifically at Kirtland Air Force Base's Manzano Weapons Storage Area, is a reasonable alternative. Accordingly, the DOD is a cooperating agency in that Pantex EIS. The Draft PEIS rejects this alternative for long-term storage without adequate explanation. Among the potential advantages of using an existing facility which should be better evaluated in the PEIS are cost savings from avoiding new construction and faster implementation.

7/01.05.00

Further, the Draft PEIS fails to consider alternatives for plutonium storage containers. Only one container is analyzed despite the fact that this container is not yet certified and is admittedly not appropriate for storage of plutonium in all the variety of forms in which it currently resides throughout the complex. A range of adequate containers and storage conditions should be examined in order to ensure that plutonium stabilization and storage can be done safely.

8/02.00.08

The Draft PEIS should also more fully consider activities associated with the processing and interim storage of plutonium and highly enriched uranium that will be required to transition this material from its current status at various sites around the complex to the preferred form(s) for long-term storage. The draft PEIS seems to presume that such processing and repackaging receives comprehensive NEPA coverage in some other document(s). That is not the case. Instead, existing NEPA documents considering interim stabilization and storage are incomplete. All related issues have not been addressed separately and certainly not comprehensively. Moreover, there are numerous outstanding safety concerns (e.g., seismic safety at the Savannah River Site reprocessing canyons) which raise questions about the adequacy of those NEPA documents which have been completed.

9/11.01.08

Finally, the Draft PEIS contains no cost estimates and no detailed design information on buildings and facilities. Such information is necessary to identify reasonable alternatives and evaluate their environmental impacts. But that information will not be available to the public until some time after the comment period. Such information is essential to the public discussion and should be made available for public review and comment.

10/08.00.00

These concerns make clear that the Department has much work to do before it can produce an adequate Draft PEIS on the storage and disposition of weapons-usable fissile materials. The public should expect no less than a fully sufficient NEPA analysis for this very important issue.

In conclusion, we want to emphasize that completing an adequate Draft PEIS should not be an excuse for failure to take appropriate action in several areas of disposition policy. Construction of a pilot vitrification plant to demonstrate the safe stabilization of plutonium residues, for example, would not foreclose any options considered in the PEIS. Moving forward with a pilot vitrification plant will instead signal the Department's resolve to safeguard plutonium rather than to stockpile it, as well as to address some existing environmental, health, and safety issues. Moving forward will also provide additional information about the details of immobilization of plutonium in glass - information that would be useful in preparing an adequate PEIS.

11/15.00.00

M-242

06 01 08 **Comment Number 5**

Comment noted. The President's Nonproliferation Policy says that the United States will not recycle Pu. Burning weapons Pu in reactors does not utilize the recycling process because the Pu in the spent fuel from this process will not be extracted for reuse in new fuel. This is consistent with U.S. policy since no Pu is being recycled. After a once-through cycle, the Pu would be converted to a nonproliferation form as spent reactor fuel. This would not be a subsidization of the nuclear industry. As noted in response to Comment Number 2, DOE has prepared both cost and nonproliferation analyses for public review; in the ROD, DOE will consider the cost and nonproliferation information along with environmental analyses, schedule and technical analyses, and public comments.

09 09 08 **Comment Number 6**

The human health and safety impacts from normal operations and facility accidents for all three Reactor Alternatives, existing LWRs, partially completed LWRs, and evolutionary LWRs using MOX fuel are evaluated and documented in the Final PEIS. Appendix H, *High-Level Waste Forms Comparative Analysis*, provides an analysis of the thermal and radiation conditions of the waste form's performance in the repository.

01 05 00 **Comment Number 7**

Combined storage of pits and non-pit Pu at the Manzano WSA was originally eliminated as a reasonable alternative in the Draft PEIS. After considering separate storage of pits from non-pit Pu, the option to store these pits at the Manzano WSA no longer appears unreasonable. The Manzano WSA was evaluated in the Pantex EIS and Section 2.1.3 of the Final PEIS. The Final PEIS was revised to clarify the consideration of the Manzano WSA for combined storage, and a description of the WSA was included in Appendix P.

02 00 08 **Comment Number 8**

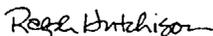
The PEIS assumes that all surplus Pu at Hanford, INEL, Pantex, SRS, RFETS, and LANL has been transformed to a stable form that meets the DOE *Standard Criteria for Safe Storage of Pu Metals, and Oxides* (DOE-STD-

Comment Documents
 and Responses

AMERICAN FRIENDS SERVICE COMMITTEE, DENVER, CO,
RALPH HUTCHISON
PAGE 3 OF 4

If you have questions or would like to further discuss our concerns, please contact either Ralph Hutchison at (423) 483-8202 or Brian Costner at (803) 256-7298. We appreciate your attention to our concerns and look forward to hearing from you soon.

Sincerely,



Ralph Hutchison, on behalf of:

American Friends Service Committee, Denver, CO
Citizen Alert, Las Vegas, NV
Concerned Citizens for Nuclear Safety, Santa Fe, NM
Economists Allied for Arms Reduction, New York, NY
Energy Research Foundation, Columbia, SC
Environmental Defense Institute, Troy, ID
Institute for Energy and Environmental Research, Takoma Park, MD
Nashville Peace Action, Nashville, TN
Native Americans for a Clean Environment, Tahlequah, OK
Oak Ridge Environmental Peace Alliance, Oak Ridge, TN
Panhandle Area Neighbors and Landowners, Panhandle, TX
Peace Farm, Amarillo, TX
Physicians for Social Responsibility, Washington, DC
Rocky Mountain Peace Center, Boulder, CO
Serious Texans Against Nuclear Dumping, Amarillo, TX
Snake River Alliance, Pocatello, ID
Southwest Research and Information Center, Albuquerque, NM
Tri-Valley CARES, Livermore, CA
Western States Legal Foundation, Oakland, CA

M-242

3013-94) for materials greater than 50-percent Pu or the *Criteria for Interim Safe Storage of Pu-Bearing Solid Materials* (draft in preparation by DOE) for material with less than 50-percent Pu. Stabilization of the material and the impacts are not within the scope of this PEIS, but have or will be analyzed in other NEPA documents, as appropriate. The material would be stored in containers consistent with the transportation of the materials on or to the site. Containers analyzed for storage of pits include the FL container (currently certified) and the AT-400A (currently under review for certification). Material would not be moved and stored in the AT-400A container without proper certification. Other containers were analyzed for the transportation of other Pu materials (for example, the BUSS R-1 cask for cesium (Cs) and the MO-1 for MOX fuel). Appendix G, "Intersite Transportation," provides the analysis of the containers used for transportation and storage for Pu and HEU.

11 01 08

Comment Number 9

The Department of Energy has an ongoing materials stabilization program under the Office of Environmental Management (EM), to stabilize, process, and package various materials including weapons-usable fissile materials. The NEPA coverage for stabilization of the weapons-usable fissile materials is beyond the scope of this PEIS. Appropriate NEPA documents have or will be prepared, as necessary, for the stabilization of various materials, including weapons-usable fissile materials, under DOE's Materials Stabilization Program. This PEIS analysis begins at the point that the surplus weapons-usable fissile materials are in a form suitable for storage or disposition.

08 00 00

Comment Number 10

In the interest of openness and more informed decisionmaking, DOE released Technical Summary Reports to the public as soon as they became available. Cost data, along with technical and schedule data, were provided in Technical Summary Reports of both storage and disposition in late July 1996. Final Summary Reports reflecting public input were made available to the public in October and November 1996. Results of the nonproliferation analysis were made available in October 1996. Each of these analyses, along with the environmental analysis and public input, will be integrated into the DOE's decisionmaking process.

15 00 00

Comment Number 11

Comment noted. DOE will include pilot and demonstration projects, as appropriate, in moving toward implementation of the disposition technologies.

AMERICAN NUCLEAR SOCIETY,
 JAMES DEWES
 PAGE 1 OF 1

AMERICAN NUCLEAR SOCIETY - SAVANNAH RIVER SECTION STATEMENT
 REGARDING STORAGE AND DISPOSITION OF WEAPONS-USEABLE FISSILE
 MATERIALS DRAFT PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT

My name is John Dewes and I am Vice Chairman of the Savannah River Section of the American Nuclear Society. Our local section consists of some 800 scientists and engineers in the Central Savannah River Area. On behalf of the Section, I would like to make a statement concerning the Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic Environmental Impact Statement.

We believe that all of the long term storage options are acceptable from the standpoint of environmental, safety and health. We also believe that any of the Long Term Storage sites proposed have sufficient infrastructure to handle the engineering & design of such a facility.

We strongly support the recommendations contained in the American Nuclear Society Special Panel Report on the Protection and Management of Plutonium¹, a Panel chaired by Glen T. Seaborg, who discovered Plutonium almost 60 years ago. This report recommended implementation of the reactor irradiation option for disposal of surplus weapons-useable plutonium.

The stated goal of the PEIS is to make surplus plutonium inaccessible and unattractive for use as nuclear weapons. We believe that the reactor irradiation option has several advantages over the other options in meeting this goal. It is the only option that converts weapons grade plutonium to reactor grade plutonium. This is a crucial point, because our weapons testing history indicates that, although possible, it is extremely difficult to build a successful nuclear weapon from reactor grade plutonium, and that the infrastructure required to either build a successful weapon or to purify the plutonium to weapons grade presents a tremendous barrier to diversion. The reactor irradiation option is also the quickest way to reach the goal of the Spent Fuel Standard for protection from misuse.

Jill Lytle, Deputy Assistant Secretary, in her prepared comments for the Citizens Advisory Board Plutonium Forum, indicated that she wanted a "sustainable decision", one which considers the issue in light of other decisions under review and one that garners long term public support. The decision should therefore reflect the long term need to protect the public from diversion of the materials in question. The French have recognized this issue, and are currently taking advantage of the long term protection associated with the use of mixed oxide fuel for their civilian stockpiles of plutonium.

We believe that if the mission of the DOE is to ensure a stable energy supply for our country's needs, then the energy value of the plutonium, estimated at 32 billion dollars, should be considered when selecting the preferred alternative. Plutonium is not a waste - it is the closest thing to a peace dividend our country will ever see. We also believe that the DOE needs to pay attention to scientific facts related to plutonium rather than irresponsible and irrational statements made concerning its toxicity and potential impact on the population.

We strongly urge you to select the reactor irradiation option as the most beneficial and effective method for dispositioning of weapons-useable fissile material. Thank you for the opportunity to provide comment on this important issue.

¹ Protection and Management of Plutonium, American Nuclear Society Special Panel Report, Glen T. Seaborg, August 1995

1/08.03.01

2/08.03.01

3/08.03.00

4/01.00.00

2/08.03.01
cont.

SR-005

08 03 01 Comment Number 1

The Department of Energy acknowledges the commentor's support for long-term storage of fissile materials. Decisions on storage of weapons-useable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 2

The Department of Energy acknowledges the commentor's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 00 Comment Number 3

Comment noted.

01 00 00 Comment Number 4

Comment noted.

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,
A. DAVID ROSSIN
PAGE 1 OF 7

A LETTER TO THE SECRETARY OF ENERGY
WITH COMMENTS ON THE DRAFT PEIS ON
STORAGE AND DISPOSITION OF WEAPONS-USABLE MATERIALS
FROM THE ANS PAST-PRESIDENTS COUNCIL

April 28, 1996

Hon. Hazel O'Leary, Secretary
U. S. Dept. of Energy
1000 Independence Ave. SW
Washington, DC 20585

Attention: Department of Energy
Office of Fissile Materials Disposition
P. O. Box 23786
Washington, DC 20026-7786

By Fax: 800-820-5156

Dear Secretary O'Leary,

On August 10, 1995, the ANS Past Presidents Council submitted a letter regarding the Plutonium Disposition PEIS which analyzes alternatives for DOE future action. Among other things, our letter warned that, by implication, the PEIS could be used to claim that an open process had been used to eliminate reprocessing from all future nuclear fuel cycle decisions.

According to DOE, the IP says that this is not the case, and that the PEIS does not apply to commercial nuclear fuel cycles. However, we believe that some persons will choose to try to use this EIS to try to establish such prohibitions. Since irradiated MOX fuel is no different from any commercial reactor spent fuel (and some of us have participated in the irradiation of MOX fuel assemblies in licensed commercial reactors in the U. S.) any decision on future reprocessing of spent fuel, regardless of whether plutonium atoms in it came from excess weapons material or not, has no place in this EIS. And therefore any decisions about processes to be used for disposition of excess weapons material cannot have any bearing on future decisions by the United States about reprocessing of any commercial spent fuel.

Our letter asked that this be made clear. DOE's response (Letter from Greg Rudy, Acting director, Office of Fissile Materials Disposition to John Graham, President ANS, Sept. 8, 1995 - copy attached) says:

"... any subsequent reprocessing and extraction of plutonium from that spent fuel is beyond the scope of the PEIS and the fundamental nonproliferation purpose of this report."

1/01.02.00

M-077

01 02 00

Comment Number 1

The Department of Energy noted the comment requesting a statement in the Summary making it clear that future reprocessing decisions are beyond the scope of this PEIS. A clarifying statement was included in the Summary of the Final PEIS.

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,
A. DAVID ROSSIN
PAGE 2 OF 7

We fully agree. We expected to find this statement explicitly made in the PEIS. We have not found it. It belongs in the "SCOPE OF THE PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT" section on Page S-4 of the SUMMARY of the EIS draft dated February 1996.

We have not found this statement in the PEIS, although we must admit that, in light of the volume of the report, we might have missed it. In any event, it belongs in a very visible place in the SUMMARY. We believe that failure to include this statement in a visible place in the SUMMARY may result in misreading and abuse of the document. This was one of the key points of our earlier comment.

We see no reason why this statement, a statement made very explicitly in Mr. Rudy's letter, should not be clearly made. We are counting on you to see that this is done.

It may sound like an item of limited interest at this time. We do not believe this to be the case. In any event, we do not feel that the Department has any reason for anything less than a full and complete response to our request.

Should the Department feel differently, we urge you to contact us at once.

If the Final EIS is published without clarifying this issue, in a manner as clear as we have suggested above, a clear basis will exist for a court challenge to the EIS, which a court might find would require a reprinting and redistributing of the entire EIS. This would be a waste of Federal funds which we would be disappointed to see.

We thank you for your attention to this matter.

Sincerely,



The American Nuclear Society Past-Presidents Council

(Signatures appear on the last page of the enclosed letter dated August 10, 1995.)

1/01:02:00
CONT.

M-077

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,
A. DAVID ROSSIN
PAGE 3 OF 7



Department of Energy
Washington, DC 20585

September 8, 1993

Mr. John Graham
President
American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526

Dear Mr. Graham:

Thank you for your letter to Secretary O'Leary dated August 10, 1993, and its enclosed letter from past presidents of the American Nuclear Society (ANS) regarding the Implementation Plan for the Department's Programmatic Environmental Impact Statement (PEIS) on surplus plutonium disposition. I have been asked to respond to your letter because, as the Acting Director of the Office of Fissile Materials Disposition, I am responsible for the PEIS.

In their letter, the past ANS presidents raise the concern that "the implementation plan systematically eliminates from debate every option that involves any future possibility of reprocessing of spent nuclear fuel." The letter requests that the pros and cons of spent fuel reprocessing be discussed in the PEIS.

The specific purpose of the Department's PEIS effort is to evaluate alternatives for the disposition of surplus weapons-usable plutonium that would render the plutonium as inaccessible and unattractive for reuse in nuclear weapons as the much larger and growing quantity of plutonium that exists in spent nuclear fuel from commercial power reactors. This condition is referred to as the "Spent Fuel Standard." As noted in the PEIS Implementation Plan, the use of plutonium as mixed oxide fuel in reactors is being evaluated as one of the potential disposition options. If an alternative using mixed oxide fuel in reactors were to be selected, the surplus plutonium would eventually be contained in spent fuel and, by definition, the "Spent Fuel Standard" would be achieved.

While the PEIS will discuss the generation of spent fuel as an indirect result of potential disposition actions, any subsequent reprocessing and extraction of plutonium from that spent fuel is beyond the scope of the PEIS and the fundamental cooperation purposes of the disposition effort. The fact that the PEIS will evaluate disposition of surplus weapons plutonium through use in mixed oxide fuel, but will not further evaluate reprocessing of the spent fuel, will not foreclose policy or technology options, nor will it prejudice future decisions regarding the management or disposition of the spent fuel.

I hope this response has helped to better explain the Department's perspective and our intended path forward for the PEIS on the disposition of surplus weapons plutonium.

Sincerely,

Greg Rudy
Acting Director
Office of Fissile Materials Disposition



M-077

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,
 A. DAVID ROSSIN
 PAGE 4 OF 7



AMERICAN NUCLEAR SOCIETY

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August 10, 1995

The Honorable Hazel O'Leary
 Secretary
 US Department of Energy
 1000 Independence Avenue, SW
 Washington, DC 20585

Re: Plutonium Disposition PEIS
 Implementation Plan

Dear Secretary O'Leary,

In March 1995, the Department of Energy issued an Implementation Plan for work to develop the Programmatic Environmental Impact Statement for the Storage and Disposition of Excess Weapons Material. Copies of this Implementation Plan reached some American Nuclear Society (ANS) members in late May.

At the 1995 Annual Meeting of the ANS in June in Philadelphia, Pennsylvania, this Implementation Plan was discussed by members who expressed concern with the way in which the screening process was used to exclude valid options which include the reprocessing of spent fuel.

A number of Past Presidents of the Society were concerned enough to draft the attached letter to you on this subject.

I am pleased to submit the enclosed letter, signed by 19 of the ANS Past Presidents, to you. Although no formal survey was attempted to represent the views of the entire membership of this Society, it is evident to me that the concerns expressed by our Past Presidents are shared by current ANS Officers and the overwhelming majority of members.

Since most of the names of the Past Presidents are familiar to DOE, their affiliations are not indicated. However, if biographical information on any or all of them is desired, do not hesitate to contact ANS Executive Director James G. Toebes at ANS Headquarters.

Sincerely,

John Graham

Enclosure: Statement of ANS Past Presidents

cc: Mr. Greg Rudy, DOE
 Senator Frank Murkowski
 Honorable Warren Christopher, Secretary of State
 Honorable William Perry, Secretary of Defense
 ANS Officers
 ANS Past Presidents
 Mr. Patrick Murphy, ANS Washington Representative

Interest in the development, dissemination and application of nuclear science and technology to benefit humanity

JOHN GRAHAM, PRESIDENT

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M-077



AMERICAN NUCLEAR SOCIETY

155 North Washington Avenue
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Fax: 708/351-6499

August 10, 1995

The Honorable Hazel O'Leary
Secretary
US Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585

Re: Plutonium Disposition PEIS
Implementation Plan

Dear Secretary O'Leary:

We have reviewed the Plutonium Disposition PEIS Implementation Plan (IP) dated March 1995. We are pleased that this effort has been in progress for almost two years and that work on the PEIS has advanced to the point of developing an Implementation Plan. However, we respectfully request that this plan be withdrawn and a new Implementation Plan be developed which would meet the minimum requirements for preparation of a Programmatic Environmental Impact Statement on the Long-Term Storage and Disposition of Weapons-Usable Fissile Materials (PEIS). This Implementation Plan does not do so. We will explain why below.

This IP systematically eliminates from debate every option that involves any future possibility of reprocessing of spent nuclear fuel. In so doing, it eliminates the opportunity for the public even to hear about options that may be shown to be highly desirable from non-proliferation, waste management, environmental, and long term economic points of view. The reasons offered could, if extended, be applied readily in the future decision-making on nuclear power fuel cycles. This risk, we believe, would be both serious and improper.

We recognize that there are people who believe the opposite, but the analyses that have been presented to support their views have not been convincing. In any case, there is no valid reason to prevent those arguments, pro and con, from being laid out publicly in this PEIS. In fact, based on the history of the Environmental Policy Act, analysis of real options would be required.

Although disclaimers are offered to say that the PEIS refers only to excess weapons material, DOE has chosen to call all separated plutonium, regardless of isotopic composition, "weapons usable." By implication, the PEIS could be used to claim that an open process had been used to eliminate reprocessing from all future nuclear fuel cycle decisions. The IP says that this is not the case, and that the PEIS does not apply to commercial fuel cycles. But the reasons for these systematic exclusions are not convincing. Not considering these options in the PEIS could well give the public a seriously incomplete picture.

The options that would allow reprocessing have been eliminated from discussion by the use of "screening criteria." Many persons, including some of us, presented comments during the comment period at public meetings and in writing about the danger of using screening criteria to preclude debate on real alternatives. Despite our comments, DOE has decided to preclude a full and fair consideration of alternatives.

Letter to the Administrator, Administrator of Department of Energy, and Secretary of Energy

M-077

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,
A. DAVID ROSSIN
PAGE 6 OF 7

August 10, 1995

Page 2

We are all very familiar with the EIS process. We all recall decisions that went as high as the Supreme Court with regard to what had to be included in an EIS in order to make it a valid part of the process. With this in mind, we offer the following for your consideration:

1. One cannot legally screen out a particular process on the grounds of "lack of technical maturity" when it is or has been in actual operation, and in some cases is in full commercial operation.
2. One cannot legally screen out a particular process on the basis of "theft/diversion" when processes (actually based on technology developed in the US) are in commercial operation in two countries with fully adequate and demonstrated resistance to theft and diversion.
3. One cannot legally screen out an option on the basis of a so-called "policy" of prohibiting reprocessing when such a Presidential policy has not been subjected to public debate, when it has been applied for five years, then rescinded for 12 years, and then stated again in late 1993 as a reality rather than a national policy. Such a so-called policy itself cries out for open public discussion.

Considering DOE's policy of openness that you have declared, the tactic of disallowing technologically viable options by screening them out of a programmatic environmental assessment in advance, without a sound and compelling basis, should be repugnant to you.

Each of us has agreed to be available to you and your staff to discuss this matter. However, we urge you to act promptly to withdraw this IP. In its present form, we find it hard to imagine that either it, or more importantly a PEIS based on it, would survive a court test, in light of the extensive legal history that has been developed over the past 25 years.

Sincerely,

Past Presidents of the American Nuclear Society
(signatures appear on the following page)

M-077

AMERICAN NUCLEAR SOCIETY PAST-PRESIDENTS COUNCIL,

A. DAVID ROSSIN

PAGE 7 OF 7

SIGNED BY THESE MEMBERS OF THE ANS PAST-PRESIDENTS COUNCIL:

Manson Benedict Vincent S. Boyer Karl Cohen
Dr. Manson Benedict Mr. Vincent S. Boyer Dr. Karl P. Cohen

Ed Fuller Joseph M. Hendrie William R. Kimel
Mr. Ed Fuller Dr. Joseph M. Hendrie Dr. William R. Kimel

Harry Lawroski Mitt Levenson Miles C. Leverett
Dr. Harry Lawroski Mr. Milton Levenson Dr. Miles C. Leverett

James R. Lilienthal Walter B. Loewenstein Robert L. Long
Mr. James R. Lilienthal Dr. Walter B. Loewenstein Dr. Robert L. Long

H. Jack Ohanian A. David Rossin Chauncey Starr
Dr. M. Jack Ohanian Dr. A. David Rossin Dr. Chauncey Starr

Ronald C. Stimson Alan Walter Alvin M. Weinberg
Mr. Ronald C. Stimson Dr. Alan Walter Dr. Alvin M. Weinberg

Bertram Wolfe
Dr. Bertram Wolfe

M-077

AMERICAN NUCLEAR SOCIETY, IDAHO FALLS, ID,
 JOHN COMMANDER
 PAGE 1 OF 1

ANS Statement Re: Storage and Disposition of Weapons-Usable Fissile
 Materials Draft Programmatic Environmental Impact Statement

My name is John Commander. I am Vice-Chair of the Idaho Section of the American Nuclear Society, and represent some 900 members located predominately in Southeast Idaho. On behalf of the section, I would like to make a statement concerning the Storage and Disposition of Weapons Usable Fissile Materials Draft Programmatic Environmental Impact Statement.

We believe that all of the long term storage options are acceptable from the standpoint of safety and environmental impact; however, the option for the Collocation of the Plutonium and Highly Enriched Uranium receives our support as the most favorable alternative. We also believe that any of the Long Term Storage sites proposed could be designed to be acceptable.

We believe that the Plutonium Disposition Alternatives which involve disposal with out utilization as fuel for use in reactors are unacceptable. We support the recommendations contained in the ANS Special Report on the Protection and Management of Plutonium (Special Panel Report, Glen T. Seaborg August 1995). This report recommended implementation of the reactor irradiation option for disposal of surplus weapons-usable plutonium.

The Special Panel Report also recommended continuation of development work on reprocessing and breeder (Integral Fast Reactor) as a promising approach to proliferation-resistant fuel cycle. We strongly support this recommendation also.

Sincerely,

 John Commander

170 Fieldcrest Lane
 Idaho Falls, ID. 83404

1/08.03.01

2/08.03.01

3/14.00.00

ID-004

08 03 01 Comment Number 1

The Department of Energy acknowledges the commentor's support for the Collocation Alternative. Decisions on storage alternatives will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 2

The Department of Energy acknowledges the commentor's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

14 00 00 Comment Number 3

During the screening of alternatives for inclusion in the PEIS, a Reactor-Burning concept was evaluated involving a variation of the Integral Fast Reactor concept. However, this concept, which would use a reactor fuel cycle design still requiring development, would be more costly and require a longer timeframe than other mature reactor options. The development program was terminated by the Administration and Congressional action. Since Pu disposition can be accomplished using existing technologies, this advanced technology for Pu disposition is less reasonable than other Reactor Alternatives for Pu disposition.

AMERICAN NUCLEAR SOCIETY

Position Paper Abstract - Disposition of Plutonium

Short-Term: Surplus Weapons Plutonium

- | | |
|---|------------|
| 1. We strongly support conversion of all plutonium released from weapons stocks to a form in which it is protected from theft or seizure by intense radioactivity (the "spent fuel standard"). Place immediate emphasis on protecting stocks as securely as when they were active weapons. We urge that higher priority and attention be devoted to assuring that this standard is being met. | 1/01.02.00 |
| 2. We recommend prompt implementation of the reactor irradiation option for disposition of surplus U.S. and Russian weapons plutonium, employing available reactors in the United States and Russia, or in third countries. | 2/06.00.09 |
| 3. The time schedule for both initiation and completion of conversion should be shortened. | 3/07.01.00 |
| 4. All released plutonium in the United States and Russia should be placed under international safeguards as early as possible. | |

Longer-Term: Civil Plutonium

- | | |
|--|---------------------|
| 5. Energy demand, especially for electric power, is increasing steadily in the developing countries. We cannot and should not wish these countries to forgo the benefits of abundant energy that the industrial world has enjoyed for so long. | 4/01.03.00 |
| 6. The use of nuclear energy will take place primarily in industrialized countries, making fossil fuel resources more accessible and affordable for use in the developing world. | |
| 7. Current proven reserves of reasonably priced uranium are insufficient to support a long-term, major contribution of nuclear energy to meeting world energy demand. Breeder reactors can overcome this limitation. | |
| 8. The issue of the proper level and structure of development on the breeder and other advanced reactor systems calls for further assessment. We urge that this be undertaken. | 5/14.00.00 |
| 9. The recent U.S. decision to stop all development work on reprocessing and the breeder should be reversed. | |
| 10. The development of permanent waste repositories is essential, since these will be needed for either spent fuel or fission product waste disposal. | 6/12.01.00 |
| 11. We see no need for international uniformity in selection of fuel cycle options. | 4/01.03.00
cont. |
| 12. The IAEA should place increased emphasis on containment and surveillance and other nonaccountancy safeguards measures. | 7/13.00.00 |
| 13. The IAEA should be called on to review the adequacy of national measures for protection of nuclear materials against subnational threats. | |
| 14. It is essential that the IAEA be assured of the financial, technical and manpower resources and the political support necessary to carry out its increasingly vital tasks. | 4/01.03.00
cont. |

WA-021

01 02 00 **Comment Number 1**

Comment noted.

06 00 09 **Comment Number 2**

Comment noted. However, disposition of foreign weapons-usable materials is beyond the scope of this PEIS.

07 01 00 **Comment Number 3**

Comment noted.

01 03 00 **Comment Number 4**

Comment noted.

14 00 00 **Comment Number 5**

Liquid metal breeder reactors were not considered reasonable alternatives for Pu disposition in the PEIS since more time and greater cost would be incurred to complete construction than with LWRs.

While the PEIS discusses the generation of spent fuel as an indirect result of potential disposition actions, there would not be any subsequent reprocessing and extraction of Pu from that spent fuel. The U.S. policy concerning reprocessing is beyond the scope of the PEIS and the fundamental nonproliferation purpose of the disposition effort.

The President's Nonproliferation Policy says the United States will not recycle Pu. Burning weapons Pu in reactors does not utilize the recycling process because the Pu in the spent fuel from this process will not be extracted for reuse in new fuel. This is consistent with U.S. policy since no Pu is being recycled. After a once-through fuel cycle, the Pu would be converted to a nonproliferation form as spent reactor fuel.

12 01 00 **Comment Number 6**

Comment noted. Site characterization is currently being performed for a geologic repository in accordance with the NWPA, and further environmental analyses will be performed as necessary.

13 00 00

Comment Number 7

Comment noted. The emphasis that IAEA places on various safeguards measures is not a part of this environmental analysis. IAEA inspectability is considered in the technical and nonproliferation analysis and will be integrated into DOE's decisionmaking process.

3819 Devonshire Avenue
Kalamazoo MI 49006-2703
Friday, 31 May 1996

J. David Nulton, Director
NEPA Compliance & Outreach
U.S. Department of Energy
Office of Fissile Materials Disposition, MD-4
Forrestal Building
1000 Independence Ave., S.W.
Washington, D.C. 20585

Dear Mr. Nulton,

The following comments are in response to the draft Programmatic Environmental Impact Statement on the Storage and Disposition of Weapons-Usable Fissile Materials:

At the present time, the No Action Alternative appears to be the logical and reasonable choice. As is pointed out in the PEIS, the No Action Alternative would have no or negligible adverse impacts to land resources, site infrastructure, air quality, and geology and soils at all of the DOE sites under consideration.

1/08.03.01

Other alternatives, especially in this time of existing federal budgetary problems, involve large expenditures of money and energy resources for the construction of new facilities (e.g. a vitrification facility, or a ceramic immobilization facility, or a MOX fuel fabrication facility) or the deep borehole concept. Also, all of the other alternatives involve excessive intersite transportation of nuclear materials between the source and the processing facilities and the final destination.

Although permission has apparently not been granted by the Canadian government, transportation of the MOX fuel to the Ontario Hydro Nuclear Bruce-A Generating Station in Ontario appears to be a poor idea. As is pointed out in the draft PEIS: "Potential adverse intersite transportation impacts related to the transportation of MOX fuel could occur because of the increased risk of traffic accident fatalities."

2/08.03.01

Obviously, there is no perfect answer to the horrendous problem of dealing with this nuclear fissile material. We have created this problem without ever having given serious consideration to that day in the future when we would need to make some effort to face the reality of disposing of this weapons-usable fissile material with the minimal adverse affect on the people and the environment.

Sincerely,

Amy Louise Anderson

Amy Louise Anderson

M-252

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentator's support for the No Action Alternative for long-term storage and disposition of fissile materials. Decisions on storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentator's opposition to the use of the CANDU Reactor Alternative for the disposition of Pu. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input. This will include an appropriate level of analysis concerning the CANDU Reactor Alternative. In addition, according to the Canadian Government, implementation of the CANDU Reactor Alternative would be subject to Canadian Federal and Provincial policies and regulations and require health, safety, and environmental assessments before issuance of a Canadian license. (See the letter from the Canadian Embassy in Washington, DC, dated June 6, 1996, reproduced in this CRD.)

ANDERSON, MRS. GABE, JR., AMARILLO, TX
PAGE 1 OF 1

JA
Mrs. Gabe Anderson Jr.
Box 8, Box 471
Lake Tanglewood
Amarillo, Texas 79118

April 26, 1996

Dear Sir -

Our family strongly
object to any Government plan
to turn Pantex into a permanent
waste facility.

We fear for our people & our
family. We are a rich agricultural
area & we fearful of pollution -
We don't want to make Pantex being
polluted as other facilities such
as Rocky Flats.

Many of our friends feel the same
way in this - Please be aware of
our concerns -

Mrs. Gabe Anderson
Amarillo, TX

1/08.03.01

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's opposition to new missions at Pantex. Decisions on storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

M-203

3819 Devonshire Avenue
Kalamazoo MI 49006-2703
Friday, 31 May 1996

J. David Nulton, Director
NEPA Compliance & Outreach
U.S. Department of Energy
Office of Fissile Materials Disposition, MD-4
Forrestal Building
1000 Independence Ave., S.W.
Washington, D.C. 20585

Dear Mr. Nulton,

The following comments are in response to the draft Programmatic Environmental Impact Statement on the Storage and Disposition of Weapons-Usable Fissile Materials:

At the present time, the No Action Alternative appears to be the logical and reasonable choice. As is pointed out in the PEIS, the No Action Alternative would have no or negligible adverse impacts to land resources, site infrastructure, air quality, and geology and soils at all of the DOE sites under consideration.

1/08.03.01

Other alternatives, especially in this time of existing federal budgetary problems, involve large expenditures of money and energy resources for the construction of new facilities (e.g. a vitrification facility, or a ceramic immobilization facility, or a MOX fuel fabrication facility) or the deep borehole concept. Also, all of the other alternatives involve excessive intersite transportation of nuclear materials between the source and the processing facilities and the final destination.

Although permission has apparently not been granted by the Canadian government, transportation of the MOX fuel to the Ontario Hydro Nuclear Bruce-A Generating Station in Ontario appears to be a poor idea. As is pointed out in the draft PEIS: "Potential adverse intersite transportation impacts related to the transportation of MOX fuel could occur because of the increased risk of traffic accident fatalities."

2/08.03.01

Obviously, there is no perfect answer to the horrendous problem of dealing with this nuclear fissile material. We have created this problem without ever having given serious consideration to that day in the future when we would need to make some effort to face the reality of disposing of this weapons-usable fissile material with the minimal adverse affect on the people and the environment.

Sincerely,

Robert C. Anderson

Robert C. Anderson

M-253

08 03 01 Comment Number 1

The Department of Energy acknowledges the commentator's support for the No Action Alternative for long-term storage and disposition of weapons-usable fissile materials. Decisions on storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 2

The Department of Energy acknowledges the commentator's opposition to the use of the CANDU Reactor Alternative for the disposition of Pu. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input. This will include an appropriate level of analysis concerning the CANDU Reactor Alternative. In addition, according to the Canadian Government, implementation of the CANDU Reactor Alternative would be subject to Canadian Federal and Provincial policies and regulations and require health, safety, and environmental assessments before issuance of a Canadian license. (See the letter from the Canadian Embassy in Washington, DC, dated June 6, 1996, reproduced in this CRD.)

APPALACHIAN PROPERTIES,
NATHAN COGGINS
PAGE 1 OF 1

APPALACHIAN PROPERTIES
(412) 793-9309
(412) 793-0773 fax

ATTENTION: DOE

FROM: Nathan Coggins

DATE: 3/11/96

of pages: 1

please call if total transmission was not received

Dear Doe:

You may wish to consider a work shop or a field office
near the blending sites. We live near Erwin and would like to attend
and have input as to the safty of our community.

Thank you

1/15.00.00

F-002

15 00 00

Comment Number 1

Blending is not within the scope of the PEIS.

 **Comment Form**
United States Department of Energy

NAME: (Optional) Ed Arnold
ADDRESS: 2352 Burnt Creek Rd Decatur, GA 30022
TELEPHONE: ()

Saw Attached paper regarding
"making Decisions"
"Public information + involvement"
more relevant with "Removal
of Decision"
What will's happen?

1/08.03.00

SR-009

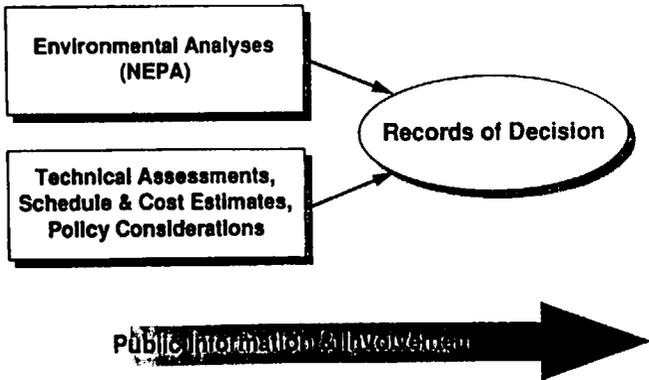
08 03 00

Comment Number 1

Public information and involvement intersect with the ROD since all public comments on the Draft PEIS are available to the decisionmaker at the time the decision is made.



Making Decisions



SR-009

U.S. Department of Energy
Office of Reconfiguration
P O Box 3417
Alexandria, VA 22302

U.S. Department of Energy
Office of Fissile Materials
P O Box 23786
Washington, DC 20026

Do Not
Comments on Stockpile Stewardship and Management (SSM) PEIS: *I support the selection of Pantex for weapons assembly and disassembly functions. I strongly favor the continuation of high explosives functions at Pantex and oppose any plan to move these functions to the national labs.* Since Pantex is the most cost-effective DOE facility and enjoys the strongest local support, I also support the addition of other environmentally sound stewardship and management functions at Pantex.

I also believe that the Plutonium stored at Pantex should be moved to a more secure location.
Comments on Fissile Materials Storage and Disposition (FMSD) PEIS: I believe that Pantex should be chosen as the location for fissile materials storage and disposition functions. Pantex already stores surplus plutonium, and has the needed safety and security capabilities to cost-effectively accommodate an expanded role. Fair budgetary comparisons, strong local support, and national security concerns, should lead DOE to choose Pantex for new fissile material storage and disposition functions that are conducted in a safe and environmentally sound fashion.

1/08.03.01

Name: Marvin Arnold Address: Amarillo TX

PC-003

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's opposition to new missions at Pantex. Decisions on storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

**B. R. BARFIELD CO. INC., AMARILLO, TX,
B. R. BARFIELD
PAGE 1 OF 1**

THE B. R. BARFIELD CO.
INCORPORATED
P. O. Box 9510 Amarillo, Texas 79103 (806) 376 5588
April 10, 1996

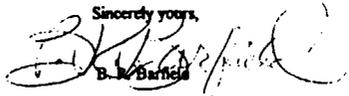
U. S. Department of Energy
Office of Reconfiguration
P. O. Box 3417
Alexandria, Virginia 22302

U. S. Department of Energy
Office of Fissile Materials
P. O. Box 23786
Washington, DC 20026

Over one hundred years ago, my great-grandparents came to Amarillo. My grandfather was the first president of the Amarillo Board of Trade (predecessor of the Amarillo Chamber of Commerce) in 1906, my father was on the board of the Chamber in the 1936, and I served as president of the organization in 1961. With deep roots and a large investment in Amarillo, involvement and a strong interest in community affairs has always been a commitment.

I respectfully urge DOE to designate Pantex as the preferred alternative for all existing and new stockpile management and stewardship functions as well as consolidation of all plutonium storage and disposition and any related functions.

1/08.03.01

Sincerely yours,

B. R. Barfield

Continuing a Tradition of Service Since 1889

M-038

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.



BNFL Inc.
1776 Eye Street, N.W. Suite 700
Washington, D.C. 20006-3700
Tel: (202) 785-2535
Fax: (202) 785-4037

May 6, 1996

U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, D.C. 20026-3786

Ref: Draft PEIS in Storage and Disposition of Excess Weapons-Usable Fissile Materials

Dear Sirs:

On behalf of BNFL, I am pleased to submit the attached comments and documents in reference to the Department's Draft Programmatic Environmental Impact Statement on Storage and Disposition of Excess Weapons-Usable Fissile Materials.

In addition to the enclosed information, BNFL would be willing to provide additional material in support of the final PEIS if the Department requests such information, and if the information is already in the public domain. BNFL has over 30 years experience in the stabilization, storage, handling, and transport of plutonium products, and in the manufacture of mixed oxide fuel. That experience, and the environmental impacts of those activities, are well documented and would be relevant to the Department's present undertaking.

I thank you for the opportunity to provide input to this very important process.

Yours truly,

A handwritten signature in cursive script that reads "Marilyn F. Meigs".

Marilyn F. Meigs
Vice President

M-218

**BNFL, INC., WASHINGTON, DC,
MARILYN F. MEIGS
PAGE 2 OF 11**

Attachments:

1. **BNFL Statement for the Record**
2. **Basis for Economics and Waste Data**
3. **"Disposition of Weapons Plutonium: Reuse or Vitrify?", M. Meigs, USCEA Fuel Cycle Conference, Boston, March, 1994.**
4. **"Licensing of the Sellafield MOX Plant", A.J. Tilstone and R.J. Page, BNFL plc**
5. **"Environmental Statement for the Proposed Sellafield MOX Plant", BNFL plc, October, 1993.**
6. **"Effective Nuclear Materials Control and Accountancy for Commercial Mixed Oxide Fuel Fabrications Plants in the United Kingdom", B.A. Burrows and D. S. Macphee, BNFL plc, and G. P. Snape, AEA Technology, IAEA-SM-333/12.**
7. **"MOX Technology - An Effective Way to Reduce Plutonium Stockpiles", D.S. Macphee, B.C. Hexter, and M.P. Young, March, 1996.**

M-218

BNFL Statement for the Record
 on draft PEIS,
 Storage and Disposition of US Excess Weapons Plutonium

- As a world leader in the handling, treating, processing, storing, and transporting of commercial-grade plutonium products, including Mixed Oxide (MOX) fuel, BNFL is pleased to provide input into the DOE draft PEIS on Storage and Disposition of Excess Weapons-Grade Pu.
- With respect to either storage or final disposition of excess weapons plutonium, it is in the US best interests to utilize existing, proven technologies, where available, instead of embarking on long, uncertain, and oftentimes wasteful pursuits of alternatives that might look good in theory, but may never prove out in practice.
- Thus, with respect to storage of plutonium, whether consolidated or not, DOE could avoid costly delays by utilizing designs that are already in use in Western Europe and approved by the appropriate regulatory bodies and by the International Atomic Energy Agency. In view of the urgency of providing safe packaging and storage of these plutonium materials, as identified by the Defense Nuclear Facility Safety Board's recommendations in 94-1, the US cannot afford to waste time and money "reinventing the wheel", and is better off pursuing a cookie-cutter approach in this instance.
- With respect to disposition of plutonium, BNFL has engineering, manufacturing, safety, licensing, and environmental experience in MOX fuel fabrication and handling that is directly applicable to the draft PEIS. For the record, some of this documentation is offered to DOE at this time, including design and safety cases for the BNFL Sellafield MOX plant, licensing experience, and BNFL's nuclear materials control and accountability approach. BNFL is willing to make available any other non-proprietary data that would be useful to the finalization of the PEIS document and other DOE documents that will provide the basis for a Record of Decision on Pu disposition.
- While US experience in the manufacture and use of MOX fuel was prematurely terminated in the 70's, experience in Western Europe has continued to mature over the last 30 years to the point where, today, it is a fully developed and deployed industry that the US can look to with confidence for information and assistance in the deployment of a similar MOX program in the US for once-through burning of excess weapons plutonium.
- In contrast, very little is known about the immobilization of plutonium in glass or ceramic, let alone the impact of the deep borehole burial option, and therefore one has to assume great uncertainties, requiring extensive research and development, with little assurance of success.

1/01.01.00

2/01.02.00

3/06.01.01

4/08.03.01

M-218

01 01 00 Comment Number 1

Comment noted.

01 02 00 Comment Number 2

Comment noted. DOE appreciates the useful information provided.

06 01 01 Comment Number 3

Comment noted.

08 03 01 Comment Number 4

The Department of Energy acknowledges the commentor's opposition to the disposition alternatives. Decisions on the disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

Comment Documents
 and Responses

BNFL, INC., WASHINGTON, DC,
 MARILYN F. MEIGS
 PAGE 4 OF 11

- Even if immobilization technologies were fully understood and the environmental and cost impacts were similar to that of MOX use, one cannot complete the comparison of options without including the huge energy and environmental "offset" values of the MOX option, which I will summarize here (see attached background information on these calculations):

Energy Value. Assuming that all 38 MT of excess weapons-grade Pu were manufactured into MOX fuel, this would give rise to new fuel worth 1.6 - 2.1 Billion dollars, and would produce approximately 45 GW years of electricity worth approximately \$32 billion in revenues!

5/09.00.08

Waste generated. Since MOX fuel displaces uranium fuel that would otherwise have to be obtained by mining, milling, and enriching uranium, one has to consider the wastes that the vitrification option would generate because of the need for new uranium fuel. Thus, vitrifying 38 MT of Pu would not only generate additional repository waste volumes in the form of approximately 320 cu. meters of extra HLW glass, the vitrification of this Pu would result in 5.3 million additional cu. meters of mill tailings and 3900 cu. meters of enrichment tails caused by the mining of uranium to displace the plutonium as new reactor fuel!

- BNFL's experience in transporting plutonium products, including MOX fuel, should give the US ample data base to conclude that transportation of MOX can be done safely. Thus, even the option of European manufacture of MOX fuel, requiring trans-Atlantic shipments of materials, can be viewed as environmentally sound and more than adequately safe for serious consideration under this PEIS.

6/08.03.01

- Special weight should be given to options that enable rapid implementation and encourage similar actions within the Former Soviet Union. After all, the real threat of this material is not the inventory stored here in the US, but the inventory that exists in Russia. The sooner we get on with a disposition path here that is compatible with Russian methods of disposal, the more likely Russia will proceed with its own disposition. It is no secret to everyone in this room that the Former Soviet Union views its excess weapons plutonium as an asset that should be utilized as MOX fuel! A similar program in the US would provide impetus to both countries.

7/01.03.00

- Special weight should be given to the ability to rapidly deploy the option under question. The only option that could be implemented in any reasonable timeframe, without the need for endless R&D, is the MOX option. BNFL, for one, is prepared and capable of implementing a US MOX program from the day the ROD is announced! BNFL would be prepared to commit its existing manufacturing facilities to the early production of Lead Test Assemblies, followed by the manufacture of initial core loads utilizing any available excess capacity at its plants in Sellafield. BNFL has also stated, in its Expression of Interest to DOE in February of this year, that it would be prepared to construct a new facility as a privatized venture on US soil, for continued manufacture of MOX fuel to serve the US Pu Disposition program until its completion.

8/06.01.08

M-218

09 00 08

Comment Number 5

The scope of this PEIS is not intended to provide an analysis of the benefits and impacts of generating energy as a consequence of burning MOX in a reactor. Its intent is solely to analyze the environmental and socioeconomic impacts of the disposition of weapons-usable fissile materials through reactor burning. The PEIS compares the amount of waste generated from burning MOX in a reactor to the amount of waste generated from mining, milling, and enriching uranium for a similar amount of reactor fuel.

08 03 01

Comment Number 6

The Department of Energy acknowledges the commentator's support for the Reactor Alternative using MOX fuel. Decisions on disposition of weapons-usable fissile materials will be based on environmental analyses, technical and economic studies, national policy considerations, and public input.

01 03 00

Comment Number 7

Comment noted.

06 01 08

Comment Number 8

Comment noted.

**BNFL, INC., WASHINGTON, DC,
MARILYN F. MEIGS
PAGE 5 OF 11**

• To summarize, the Western European's extensive experience in MOX fuel provides overwhelming evidence that the MOX options under consideration in the draft FEIS are superior to the other options, not only in terms of environmental, health, and safety aspects, but also in terms of cost/benefit, ability for rapid deployment, and compatibility with the Former Soviet Union's objectives.

6/08.03.01
CONT.

M-218

BASIS FOR ECONOMIC AND WASTE DATA

ECONOMICS

1) Value of MOX fuel:

Based on ave. U fuel cost of \$1.5/MWT HM

$$38T \text{ Pu} \times 11 \text{ fuel} \times \$1.5M = \$1.63B$$

$$0.035TPu \text{ THM}$$

(higher value if U costs go up)

2) Recoveries:

$$38TPu \times 11 \text{ fuel} = 1086 \text{ T fuel}$$

$$0.035TPu$$

$$1086T \text{ fuel} \times 440Wd \times 35\% \text{ efficiency} \times 31 = 450Wyr$$

$$365d$$

$$45 \text{ GW yrs} \times 20.02 = 332B$$

$$kWh$$

WASTE GENERATED

1) GLASS LOGS: (assumes 5% incorporation into glass)

$$38T \text{ Pu} \times 11 \text{ fuel} \times 1700cu.m = 3220cu.m \text{ glass}$$

$$0.05T \text{ Pu} \quad 0.4T$$

2) MILL TAILINGS

$$38T \text{ Pu} \times 11 \text{ fuel} = 1086 \text{ T fuel}$$

$$0.095T \text{ Pu}$$

For an equivalent U fuel, 3.7% enrichment at 0.25% tails, (cost factor is 7.5
Therefore, 11 fuel needs 7.5 TU = 8.84T as U2O8 ore

Assuming density of 1.8g and an ore grade of 0.1%,
cm3

$$1086 \text{ T fuel} \times 8.84T \text{ ore} \times cm3 = 5.3Mcu \text{ meters mill tailings}$$

$$T \text{ fuel} \quad 1.8g$$

2) ENRICHMENT TAILS

Feed factor of 7.5 gives 11T prot and 6.5 T tails

Therefore, 1086T fuel gives (1086 x 6.5) = 7059T enrichment tails

$$7059T \times 1cm3 = 3900 \text{ cu. meters enrichment tails}$$

$$1.8g$$

**DISPOSITION OF WEAPONS PLUTONIUM:
REUSE OR VITRIFY?**

M. Meigs, BNFL Inc.

**USCEA FUEL CYCLE CONFERENCE
BOSTON, MARCH 1994**

M-218

BNFL, INC., WASHINGTON, DC,
MARILYN F. MEIGS
PAGE 8 OF 11

Licensing of the Sellafield MOX Plant

A.J. Tilstone
R.J. Page

British Nuclear Fuels plc
Risley, Warrington, WA3 6AS

M-218

ENVIRONMENTAL STATEMENT

for the proposed
Sellafield MOX Plant

British Nuclear Fuels plc

M-218

BNFL, INC., WASHINGTON, DC,
MARILYN F. MEIGS
PAGE 10 OF 11

**EFFECTIVE NUCLEAR MATERIALS CONTROL
AND ACCOUNTANCY FOR COMMERCIAL
MIXED OXIDE FUEL FABRICATION PLANTS
IN THE UNITED KINGDOM**

B.A. BURROWS, D.S. MACPHEE
British Nuclear Fuels plc,
Risley, Warrington, Cheshire

G.P. SNAPE
AEA Technology,
Windscale, Seascale, Cumbria

United Kingdom

Abstract

**EFFECTIVE NUCLEAR MATERIALS CONTROL AND ACCOUNTANCY FOR
COMMERCIAL MIXED OXIDE FUEL FABRICATION PLANTS IN THE UNITED
KINGDOM.**

A mixed oxide (MOX) fuel demonstration facility (MDF), constructed under a joint project between British Nuclear Fuels plc (BNFL) and AEA Technology, is now operating satisfactorily. Qualification programmes are complete and production is under way. BNFL now intends to build a full size production plant called the Sellafield MOX Plant (SMP). Achieving effective and efficient nuclear materials control and accountancy (NMCA) has been an important consideration during the formulation of these projects and throughout the detailed design work. The goal is to achieve the highest NMCA and safeguards credentials in a flexible and highly commercial manufacturing environment.

1. INTRODUCTION

The production of mixed oxide (MOX) fuel is not a new process; many tonnes of MOX have been safely and successfully loaded into reactors around the world. The construction of MOX plants at Sellafield to handle recycled plutonium, coupled with the capability of BNFL's Oxide Fuel Complex (OFC) to process recycled uranium, effectively closes the fuel cycle. Such facilities are important elements of a responsible fuel management strategy and serve the needs of customers who express a wish to utilize their valuable fissile materials recovered from reprocessing.

M-218

MOX TECHNOLOGY - AN EFFECTIVE WAY TO REDUCE PLUTONIUM STOCKPILES

Duncan S Macphee
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General Manager Engineering Business
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Malcolm P Young,
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BNFL Engineering Ltd
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(+44) 161-952 6000

ABSTRACT

BNFL is one of only two organisations in the world to offer a full range of services in support of the nuclear fuel cycle, including fuel manufacture and spent fuel reprocessing. As a major reprocessor of spent nuclear fuels, BNFL is committed to the effective utilisation of its customers' reprocessing products. The provision of a MOX fuel fabrication facility is an essential part of this strategy.

BNFL has accumulated considerable R&D experience of MOX fuel, including flowsheet development studies, the manufacture of fuels of different form and type, and property measurements on both irradiated and unirradiated MOX fuel. A key component of this R&D programme has been the development of a high energy milling process, known as the Shon Binderless Route (SBR), which achieves extremely homogeneous MOX powder and offers a number of advantages for processing feed powders derived from weapons-grade plutonium.

BNFL Engineering Ltd. is currently installing plant and equipment in a new, commercial-scale MOX fuel fabrication facility it has designed and constructed for its parent company at the Sellafield site. The plant design incorporates 'state-of-the-art' international safeguards and material accountability provisions designed to meet IAEA and Euratom standards.

In concentrating on the design and construction of the new Sellafield MOX Plant (SMP), this paper aims to show that the utilisation of such technology can reduce plutonium stockpiles by degrading weapons-grade plutonium through fabrication of MOX fuel, with subsequent generation of electricity in thermal nuclear reactors. This paper also discusses BNFL's experience in the MOX technology arena and provides an insight into the capabilities of BNFL Engineering and its approach to major projects. In particular, it addresses the safeguards provisions appropriate to accommodate feed materials arising from nuclear weapons decommissioning programmes.

I. INTRODUCTION

Since plutonium was first separated more than 50 years ago, the element has been at the forefront of public debate. Whilst it is viewed as a dangerous and toxic material by the public at large, there is little doubt that it has the potential to provide a major source of energy to the world population providing it is carefully and effectively managed.

In order to release the potential energy from plutonium, it can be mixed with uranium to make Mixed Oxide Fuel (MOX) for use in thermal nuclear reactors in place of standard uranium fuel. The technology base for MOX utilisation spans more than 30 years. The first thermal MOX fuel was manufactured in the early 1960s and loaded into a European PWR in 1963. In 1965 MOX fuel was loaded into the Sexton reactor in USA and in 1978 the Beznau reactor in Switzerland was loaded with its first MOX assemblies.

Over the past 17 years the use of MOX fuel in thermal reactors across Europe has grown significantly with utilities in Belgium, Switzerland, Germany and France adopting the policy to recycle the plutonium dioxide product from reprocessing. In the US, however, the use of MOX fuel stopped in the early 1980s when a national policy not to reprocess spent fuel was adopted and the Yucca Mountain storage project was formulated.



Figure 1 - The Sellafield MOX Plant under construction

M-218

BAMBERRY, ED, BLACKFOOT, ID
PAGE 1 OF 1

Comment ID: P0028
Date Received: April 18, 1996
Name: Ed Bamberry
Address: 1181 Packer Drive
Blackfoot, ID
Phone: 208-785-1623

Transcription:

I would like to comment that I am in favor of the Department of Energy processing plutonium, preferably in the reactors, and also the second I guess would be to contain the waste, any waste, in a glassified or a container for storage. Thank you for this time to let me explain my views on this. Bye.

1/08.03.01

P-028

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

BELISLE, MAVIS, PANHANDLE, TX
PAGE 1 OF 2

It is my intent this evening to spend briefly
to each of the Programmatic Environmental Impact
Statements, and receive comments on the basis
Set. We'll until the Jan. public meeting.

These documents are being addressed in this
community as an economic and jobs issue. While
the local economy is undeniably important, both
of these PEIS deals deal with issues that have
national and international implications. ~~Those~~
~~implications involve national and international~~
implications involve national and international
security; the nuclear decisions about nuclear waste
that we have been unable to make decisions
about for more than 50 years; and they involve
introducing new technologies with a wide range
of health, ~~and~~ safety and environmental risks.
They deserve to be considered in that light, need
thoughtfully and carefully, and addressed with more
than pop rallies about jobs.

The Stokpil's Stewardship and Management PEIS,
does not ~~adequately~~ adequately make a case for
development of of more than \$2.6 billion in
new capital cost and \$2 billion in development
of a ~~new~~ new super computer. The reliability of US nuclear
weapons has been tested over and over again.
The French just recently completed a series of tests
designed to allow them to continue nuclear weapons
development by simulated tests and computer

TX-065

the proposed new facilities and and believe they have any purpose other than continued weapons development.

The storage and disposition options provide us no good choices; reasonably so, because there are none. The emphasis on the spent fuel standard may leave us with a false sense of security - virtually every country which has developed nuclear weapons has done so from spent nuclear fuel. It may ~~prevent~~ provide some level of security from theft by terrorists, but the nuclear nations of the world themselves hold hostage each other and the non-nuclear nations.

We have for more than 50 years been unable to resolve the issue of what is to be done with spent nuclear fuel - producing pure of it, or other materials equally as toxic, is more problem, not solution -

*Mavis Belisle
HCR 2 Box 75
Panhandle TX 79068
335-1715*

1/01.06.00

TX-065

01 06 00

Comment Number 1

Comment noted. Most weapons produced in other countries used Pu from specialized reactors, not commercial reactors. The Spent Fuel Standard provides the most rapid path for converting Pu to a much more proliferation-resistant form. While the residual Pu could be recovered through the reprocessing of this form, it would be as difficult to retrieve as the Pu from the much larger inventory of spent fuel produced over many decades of commercial reactor operation.

TESTIMONY OF
COMMISSIONER SANDI STRAWN
BENTON COUNTY, WASHINGTON
at the
U.S. DEPARTMENT OF ENERGY HEARING
APRIL 11, 1996
RICHLAND, WA

Re: **Storage and Disposition of Weapons-Usable Fissile Materials
Draft Programmatic Environmental Impact Statement**

Good evening. My name is Sandi Strawn and I am a Benton County Commissioner. I represent the county in which most of the Hanford Reservation is located. I am providing testimony tonight on behalf of the entire Board of Benton County Commissioners.

The outbreak of peace has presented us with a decidedly better future and a significant challenge. Plutonium warheads — those very items we once felt were so necessary — now are surplus to our needs. Peace is at hand, but this country's work is not yet done.

I want to offer several pieces of input to your Draft Programmatic EIS.

1. **Keep moving forward.**

We are pleased to see the Department of Energy is taking steps to address this challenging set of issues. The Department has evaluated a host of potential approaches, and has made significant progress by developing the set of alternatives outlined in the Draft EIS. We applaud your effort to date, and encourage you to keep pressing ahead on this internationally important issue. The complexities of the problem should not be used as a reason for avoiding any action. The "No-Action" and "Long-term Storage" alternatives are neither acceptable nor effective.

1/08.03.01

2. **Follow the recommendation of independent experts.**

The National Academy of Sciences has suggested fabrication of plutonium into reactor fuel is one of the few promising alternatives in management and disposition of fissile materials.

2/08.03.01

3. **We are willing to continue to do our part.**

We recognize two of the critical steps in plutonium disposition could be supported at the Hanford Site. Those steps are the fabrication of mixed oxide fuel at the Fuels and Materials Examination Facility, and the fissioning of that fuel at WNP 2 and the Fast Flux Test Facility (FFTF).

3/08.03.01

As the host county government, we support the use of these facilities and the Tri-Cities area technical resources for these two activities. This should stand in contrast to the situation in Nevada, where the most notable product of intergovernmental relations has been a delay in solving national problems.

WA-018

08 03 01 **Comment Number 1**

The Department of Energy acknowledges the commentor's opposition to continuing or long-term storage. Decisions on storage of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 2**

The Department of Energy acknowledges the commentor's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 3**

The Department of Energy acknowledges the commentor's support for new missions at Hanford. Decisions on storage and disposition of weapon-usable fissile materials will be based on environmental analyses, technical and economic studies, national policy considerations, and public input.

BENTON COUNTY COMMISSIONER, BENTON COUNTY, WA,
SANDI STRAWN
PAGE 2 OF 2

4. The mixed oxide fuel approach is the least costly and quickest path.

As a representative of taxpayers, we urge you to use proven technologies whenever possible. When this is done, the costly steps of investigation and experimentation are avoided. The mixed oxide fuel approach has been proven viable in this country and others. No new technologies are needed, and parties have offered you their technologies and facilities to pursue this alternative. The mixed oxide fuel approach will allow us as a nation to take the biggest possible bite out of this problem with the least resources, and in the shortest period of time.

4/08.03.01

We urge you to move quickly to reduce the quantity of material which could find its way into irresponsible hands, and to quickly help the former Soviet states to reduce their stockpiles of nuclear material. The mixed oxide approach will provide the quickest demonstration of our seriousness, it will embrace a pathway that the Russians may emulate, and it will reduce stockpiles of materials.

These are the things we are FOR. Now let me mention one we are against.

5. Consolidation of plutonium at Hanford is not necessary.

The Draft EIS poses as an option the consolidation of all surplus plutonium materials at the Hanford Site. We strongly object to this approach. Benton County residents have been and will continue to willingly fulfill our part of the solution. We recognize our responsibilities to safely manage, stabilize, and dispose of the substantial amount of plutonium already existing at Hanford. But, we will not become the nation's dumping ground for all plutonium scrap and mixed waste. There are already enough items on our Hanford cleanup "to-do" list. Movement of plutonium materials should only occur right before treatment.

5/08.03.01

Thank you for conducting a hearing in Richland to hear from those who are most directly affected by DOE actions. We urge you to continue forward with timely development of technically sound and fiscally responsible solutions to these very important issues.

Sandi Strawn
4/11/96

WA-018

08 03 01 Comment Number 4

The Department of Energy acknowledges the commentor's support for the Reactor Alternative using MOX fuel. Decisions on disposition of weapons-usable fissile materials will be based on environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 5

The Department of Energy acknowledges the commentor's opposition to the Consolidation Alternative at Hanford. Decisions on the storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

**BILL WOLFE CUSTOM HOMES, AMARILLO, TX,
BILL K. WOLFE
PAGE 1 OF 2**



Bill K. Wolfe
President

(806) 358-6441

4425 Telford Drive
Amarillo, Texas 79109

April 5, 1996

U.S. Department of Energy
Office of Reconfiguration
P O Box 3417
Alexandria, Virginia 22302

U. S. Department of Energy
Office of Fissile Materials
P O Box 23786
Washington, DC 20026

Re: Comment on Stockpile Stewardship and Management (SSM)
and Storage and Disposition (S&D) of Weapons-Usable Fissile
materials Draft Programmatic Environmental Impact Statements
(PEISs).

Thank you for the opportunity to comment on the U. S.
Department of Energy's (DOE) Programmatic Environmental
Impact Statements (PEISs) on Stockpile Stewardship and
Management (SSM) and Storage and Disposition (S&D) of
Weapons-Usable Fissile Materials. Please also consider this
my comment on the Pantex Site-Wide Draft Environmental
Impact Statement, since most of the issues addressed in
these documents are identical.

First and foremost, I maintain that any current and future
functions at Pantex must be conducted in a safe and
environmentally sound manner. Any expansion at Pantex must
be implemented in a way that does not impair the health or
safety of area residents or have an adverse affect on the
environment.

Second, I maintain that the history of Pantex and the Texas
Panhandle communities have been one of lower cost than other
facilities, a safer and more environmentally sound operation
and of overall strong community support for the operation.

1/09.00.04

M-030

09 00 04

Comment Number 1

Potential environmental consequences of each Pantex alternative were analyzed in the PEIS. Results of these environmental analyses will be given full weight, along with other factors such as cost, technical risk, schedule, and national security requirements, in the process of selecting the storage strategy and site and disposition strategy and technology for the Fissile Materials Disposition Program. Pantex will continue to operate in compliance with all Federal, State, and local regulations.

BILL WOLFE CUSTOM HOMES, AMARILLO, TX,
BILL K. WOLFE
PAGE 2 OF 2

Third, I further maintain that the movement of any existing functions from Pantex to other locations are not cost effective uses of our (yours and mine) tax dollars. The high cost of new facilities would far outweigh any other theorized savings that come from a facility with historically higher costs.

Finally, I maintain that if any movements of operations are to be considered, the operations that have provided safe, cost effective and productive performance over the years should receive additional work rather than having any work removed. Therefore, Pantex should be the natural location for expanded functions. Because of its performance record and its available facilities, Pantex should be the preferred location for any weapons work.

2/08.03.01

Sincerely,



Bill K. Wolfe

M-030

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentator's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

Comment ID: P0037
Date Received: May 1, 1996
Name: Darrel Birkenfeld
Address: HCR 2, Box 19
Nazareth, TX

Transcription:

I am a concerned citizen calling to voice my strong and unconditional opposition to any storage or disposition of radioactive nuclear waste or plutonium or anything regarding that, that is outlined in the PEIS program or proposition of the Department of Energy. I'm totally against this storage because of the unforeseen and yet totally unworked-out difficulties with storing this plutonium over the aquifer. I also want to voice my opposition to this idea of making any area in our country a national sacrifice place which is what would happen if plutonium is stored in our region. We're undergoing our own economic problems that we need to find solutions to, but this is not one of them, and I again voice my opposition to any storage or disposition of plutonium or radioactive nuclear waste in the Panhandle of Texas. Thank you.

1/08.03.01

2/08.03.01

P-037

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's concerns with the long-term storage and disposition of weapons-usable fissile materials. Decisions on storage and disposition of fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentor's opposition to long-term storage. Decisions on storage of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

BLAKE, BARBARA, SAN JOSE, CA
PAGE 1 OF 2

May 6, 1996

U.S. Department of Energy
Office of Fissile Materials Disposition
J. David Nulton
P.O. Box 23786
Washington, DC 20026-3786.

I am sending the following comments with regard to your February 1996 Draft Programmatic Environment Impact Statement for the Disposition of Weapons-Usable Fissile Materials.

I am deeply concerned that the DOE is not taking more timely and positive action in establishing a disposition program which will, with the Russians, convert the plutonium stockpiles in both countries into spent fuel.

1/08.03.00

The reactor option makes sense, and can with a high degree of confidence, use the plutonium instead of uranium fuel to produce electricity, and in the process, change the plutonium to other forms and make it radioactive. The reactor process also consumes some of the plutonium. Many reactor owners have told the DOE they are willing to work with them and use their reactors to convert the plutonium so that it would not be useful for weapons. Give the job to the utility companies and let them get on with making the world a safer place.

2/08.03.01

The Russian economy is in turmoil and I have read about attempts to smuggle bomb making materials. How much longer can we study the topic and have the luxury of two year PEIS studies without doing something real with the material.

DOE seems to be catering to special interests or trying to make everyone happy. Enough with Washington politics and special or regional interest catering! I read where some politicians from the Savannah River area were trying to get DOE to build a new nuclear reactor (from a Swedish company no less) at Savannah River to make tritium and burn plutonium. If existing reactors are available why wouldn't you use them instead. It is obvious that their proposal for a new reactor is their attempt to create jobs for their area. I also think the idea of having Canadian reactors burn the plutonium is unacceptable. Are we throwing the problem over our fence and letting the Canadians put in under their rugs because we can't decide whose rug to bury it under here in this country? I also think we shouldn't be paying the Canadians or making fuel for their reactors when a U.S. utility is willing to do it and maybe in the process, lower my rates. Isn't it enough the DOE has wasted more than two years on an environmental impact study that must have cost tens of millions of dollars and we are two years further down the road without anything being done or even having an agreement with the Russians. This seems like DOE catering to Al Gore and his rich environmentalist cronies.

2/08.03.01
cont.

3/08.03.01

1/08.03.00
cont.

F-033

08 03 00 **Comment Number 1**

The Department of Energy is working to make decisions on these very important issues in a timely manner using all available information such that wise, sustainable decisions can be implemented in a deliberate, properly scheduled manner.

08 03 01 **Comment Number 2**

The Department of Energy acknowledges the commentator's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 3**

The Department of Energy acknowledges the commentator's opposition to the use of the CANDU Reactor Alternative for the disposition of Pu. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input. This will include an appropriate level of analysis by Canada before any decision on burning Pu in a CANDU reactor is implemented.

I read where Greenpeace was objecting to using reactors for the job. Enough of those nutcakes. They don't represent mainstream America. They are paid professionals and ignorant, elitist, wealthy volunteers, more interested in saving whales while humans starve in Appalachia or the Northwest because Greenpeace forced a coal mine or lumber mill to shut down. They don't have solutions and they propose Utopian nonsense. They are obstructionist who, in this situation would have both the U.S. and Russia do nothing, while if we wait long enough, eventually the material will go back into bombs—if not in Russia than maybe possibly IRAN or IRAQ? or even worse, into a terrorist bomb in the center of Washington DC or in my city?

The other options being evaluated by DOE appear pie-in-the-sky, make-work R&D programs. Putting plutonium in glass and burying it seems dangerous. The scientist really don't know what will happen to the glass 50, 100, or 1000 years from now. I expect they could also spend years and years and millions and millions of more dollars on R&D and still not be ready to put the plutonium into a safe form of glass. The Greenpeace people say that's better than reactors but they also don't want the glass (or anything else for that matter) buried at Yucca Mountain. They are hypocrites. I also understand that it would be an easy matter for the U.S. or Russia to remove the plutonium from the glass if either wanted to. Therefore, that doesn't make sense either.

I want to show my support for the common sense approach offered by the utilities and their reactors. The National Academy of Sciences recommended OVER TWO YEARS AGO, that the plutonium should be put into reactors and turned into spent fuel. The DOE has since spent those two years studying every other harebrained idea and the reactor process is no further along. I want to protest DOE's lack of action and urge the DOE to get the process going before it is too late.

2/08.03.01
cont.

1/08.03.00
cont.

Yours Truly,



Ms. Barbara Blake
6343 Farm Hill Way
San Jose, CA 95120

F-033

BOARD OF COUNTY COMMISSIONERS, LAS VEGAS, NV,
LORRAINE HUNT
PAGE 1 OF 2



LORRAINE HUNT
Commissioner

Board of County Commissioners

CLARK COUNTY GOVERNMENT CENTER
140 E. SPRING CENTRAL PKY
PO BOX 141001
LAS VEGAS, NV 89153-0101
(702) 750-2500 FAX (702) 750-6641

U.S. Department of Energy
1000 Independence Ave. S.W.
Washington, D.C. 20585
Attention: Ms. Hazel O'Leary, Secretary

May 7, 1996

**SUBJECT: STORAGE AND DISPOSITION OF WEAPONS-USABLE FISSILE
MATERIALS DRAFT PROGRAMMATIC ENVIRONMENTAL IMPACT
STATEMENT**

Dear Secretary, O'Leary:

I am a Commissioner of Clark County, Nevada, a community with over 60 percent of Nevada's population, in addition to being one of the more rapidly growing metropolitan areas in the United States. I am writing to express some concerns about the manner in which the Department of Energy (DOE) is proposing to resolve a severe national problem with the final resolution of the nation's radioactive and mixed radioactive waste issues.

While my immediate concerns are in reference to a proposal, recently described at a workshop in Las Vegas, to consider the storage of weapons-usable Fissile Materials (more commonly known as Plutonium "pits") at the Nevada Test Site (NTS), my concerns address a host of issues associated with the NTS.

As you are probably aware, the NTS is being considered as a storage, treatment and disposal site for a considerable amount of the waste that has been generated in the nation's weapons development program. This is, of course, in addition to the hundreds of nuclear weapons tests that have been detonated over the years and the proposal to place all the nation's commercial spent nuclear fuel and defense high-level waste at the NTS. Now this proposal. Where will it end?

Nevada, because of its relatively small population and national political strength seems to be always automatically considered as a final solution when proposals such as these are generated.

DOE needs to be more creative in crafting final solutions. Nevada has obviously performed ably in doing its part in ending the "cold war." It is willing to continue to do its part in the final resolution of the onerous waste problems confronting the nation. Other parts of the nation, however, also need to do their part as well.

1/01.00.00

M-241

01 00 00

Comment Number 1

Comment noted. DOE is also considering sites in other states for the various storage and disposition alternatives analyzed in this PEIS. To obtain public comments, DOE held meetings near each of the potentially affected sites and a national meeting in Washington, DC. DOE also participated in meetings, open to the public, sponsored by different organizations at which the sponsors collected public comments which were forwarded to DOE. Technical, schedule, cost, and nonproliferation analyses along with environmental analyses will be used by the decisionmaker in determining the ROD. These documents were made available for public review beginning in late July 1996.

Secretary O'Leary
May 7, 1996
Page Two

The final solution of this problem needs to include states and communities, other than Nevada. DOE and the nation needs to interject more equity into the final cleanup process and not take the line of least resistance and automatically foist all the waste and nuclear materials on one locale. This will be work for DOE, but is the only way to ensure that just as many communities and states benefited (as well as contributed to the defense efforts) from the jobs and wages that accrued from this program, that they will also share in the waste and material disposal side.

1/01.00.00
cont.

It should be noted that there are communities that have recognized this inequity and have worked to redress it. The NTS Community Advisory Board and the Fernald Ohio group, for example, have interacted to develop a more equitable solution to these issues.

As a result of their discussions what was originally an alternative to transport a high proportion of the waste to Nevada has been modified to one where a considerable amount of the waste will remain safely stored, in Ohio, some to a private incinerator in Utah, and yes, some for final disposal in Nevada. This is an equitable solution that could be emulated throughout the nation. It also offers the added benefit of reducing the amount of material (and consequence to added cost) that must be transported on U.S. highways, and thereby, reduce another source of potential accident and exposure to the public.

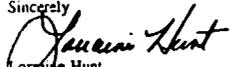
2/01.04.00

We are certain that you will support these valuable, positive efforts to solve, I reiterate, in an equitable manner, these serious problems.

Nevada, because of geography and history have limited transportation options. Much of the material consequently may end up being transported through one of the more vibrant communities in the United States. In a tourist-based economy we, understandably, have great concerns.

I look forward to the initiation of a constructive dialogue on these issues.

Sincerely


Lorraine Hunt
Commissioner

cc: Thomas Grumbly, Under Secretary
Clark County Board of Commissioners
Donald L. Shalmy
James Ley
Richard B. Holmes

07/01/96

M-241

01 04 00

Comment Number 2

The disposition alternatives evaluated in the PEIS will produce various types and quantities of waste. Some of this waste will be disposed of onsite, while other quantities will be shipped offsite for disposal. As part of the implementation process and depending on the type of waste, DOE will consider alternatives for onsite versus offsite disposal in order to define an approach that will reduce cost, transportation requirements, and potential exposure of the public to radiological releases and contaminants, and will be consistent with decisions associated with other NEPA reviews, such as the *Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste* (Waste Management PEIS).

BOARDMAN, CHARLES, SARATOGA, CA
PAGE 1 OF 5

May 5, 1996

U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20024-3786
(FAX) 1-800-820-5156

Please accept my comments on the "Draft Programmatic Environmental
Impact Statement for the Disposition of Weapons-Usable Fissile Materials."
Feb. 1996.

Regards,



Charles Boardman
19444 Via Madronas Ct.
Saratoga, CA 95070

F-034

The PEIS should include a cost-benefit risk assessment which accounts for both the timeliness and risks of each option, each should be pro-rated against a potential order of magnitude cost estimate and environmental impact costs to the nation if the weapons useable material were to be stolen or diverted.

1/07.02.00

The existing reactor option has the most technical maturity and is truly industrially proven. The track record of industrially based projects has much higher credibility than those within Government programs. The PEIS record of decision process therefore should include a cost-risk analysis of the R&D and industrial development and shakedown costs of other options which, given the DOE /Government driven development of those other programs, should certainly merit high-risk grades which would convert to high cost grades. DOE is also reminded that the National Academy strongly suggested that cost not be a major factor in addressing the risk of weapons usable plutonium. The speed, reliability, and low risk of the reactor option should therefore be overriding even if there is a cost differential due to licensing, fuel testing requirements, and DOE's political /policy decision that it needs a U.S. MOX fabrication facility.

2/08.03.01

Facility construction for that MOX facility is much more definitive than a facility for the still developmental technologies associated with the other options.

Continued consideration of the CANDU option is difficult to justify, given the willingness of U.S. utilities to undertake the mission. It is an affront to the American taxpayer to subsidize Canadian companies which are competing with U.S. electric producers with O&M or irradiation fee payments or with free fuel when those could be provided to U.S. utility companies.

3/01.03.00

DOE also seems overly concerned with the use of reactors contributing to the proliferation problem. Electric production reactors are not involved in proliferation activities and are committed to thorough safeguards practices in accordance with IAEA requirements. It is simplistic to think the other nations of the world who lead the U.S. in MOX technology anyway will be impacted in their continued use of it. If the U.S. chooses to forgo a specialized use of that technology for Pu disposition. It is clear the U.S. program would involve only a limited number of reactors dedicated to a non-proliferation mission because that offers the fastest, most reliable solution for the disposition mission. We would be cutting off our noses to

4/01.06.00

F-034

07 02 00

Comment Number 1

Parallel with the preparation of the PEIS, DOE conducted cost, schedule, technical, and nonproliferation assessments of each alternative. The results of these parallel studies were provided in a Technical Summary Report issued in July 1996 and a Nonproliferation Assessment Report issued in late 1996. The results of these evaluations will be factored into the ROD for storage and disposition of weapons-usable fissile materials.

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentor's support for Pu disposition in reactors. Decisions on disposition will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

01 03 00

Comment Number 3

The *National Environmental Policy Act* requires the analysis of a range of reasonable alternatives for a Proposed Action. There are no indications that the CANDU Reactor Alternative is not reasonable from the environmental perspective.

01 06 00

Comment Number 4

Comment noted.

spite our faces were we to forgo the LWR option on "principal". Our principal statement would have negligible impact on the risk and in fact would add to the risk by adopting other alternatives that are less rigorous in their capability to perform the mission. We must not miss our window of opportunity with willing US reactor owners and with the Russian plutonium security situation.

In subsequent discussions, it was noted that facilities and production processes for MOX fuel that would be used in a U.S. disposition program could be designed so it would be highly impractical to consider the use of those same facilities for the highly irradiated recycled Pu that would be considered if a commercial MOX program were intended. Furthermore, the facility could be designed for convenient decontamination from low exposure weapons grade Pu and built-in decommission considerations could be designed in so that could be readily achieved upon termination of the disposition program. It is also relevant to explain to the political opponents of LWR disposition that the U.S. disposition program is going to be limited program with only a few plants participating in order to achieve rapid and reliable disposition of weapons for a strategic non-proliferation goal and it is in no way oriented to promote the commercial use of MOX. There are "professional" protest lobbies (Greenpeace for one) that would decry any and all DOE disposition options and especially the LWR option; while others recognize the facility of the LWR option and decry the environment risks of geological disposal of vitrification products. Yet they offer no alternate solution to the environmental threat of doing nothing and the role they play in further delaying meaningful disposition.

involved locales and common sense public good

Some professional environmental protesters would have the DOE abandon consideration of all near term options and spend additional decades in R&D on "still unidentified, ultimate disposition methods" which, of course, must have no potential for environmental impact. Pursuing a longer term solution for the much less threatening proliferation risk from reactor grade plutonium, instead of focusing on the near term security issues stemming from weapons grade plutonium, could result in the proverbial "locking of the barn door after the horses are stolen".

Few activities, if any, undertaken in modern industrial society have no risk. Society chooses to drive automobiles despite 50,000 traffic fatalities yearly. The risks of no action and action too long delayed are much greater than those highly improbable risks that some would demand we avoid in

4/01.06.00
cont.

F-034

arriving at a record of decision and getting on with the program as expeditiously as practical.

When the general public and their political representatives are given these facts through public meetings and other information initiatives which the Department of Energy should be undertaking, and when they are made aware that the use of MOX fuel in reactors to convert weapons usable materials to spent fuel is a quick, reasonable and practical solution to the threat of diversion and otherwise relatively easy reuse that might be achieved with other options, the LWR option should win broad public and political acceptance.

Public responses at PEIS public scoping meetings in 1995 and this year's draft PEIS comment meeting have clearly demonstrated broad community support in those locales that are candidates for Pu disposition activities. There have been significant expressions of state and local level political and public support. The candidate communities are knowledgeable of the real nature of the plutonium hazard, (not the hyped hysterics that some portray) have favorable experience with plutonium activities, are comfortable with the real issues of plutonium handling and processing activities which will be common to all disposition options, and are confident in the ability of well-managed organizations to conduct the program safely and in an environmentally sound way. Particular locations which have had poor experiences with DOE facilities, or those with a well-established culture of opposition by special interests to DOE and nuclear-related operations are clearly not being considered as sites for program activities and should therefore not be a factor. A key, therefore, to achieving an accurate and meaningful public consensus lies in appropriately identifying and obtaining a consensus of those local and regional stakeholders who are truly affected.

Because U.S. national security is potentially affected by a lack of action as much as by specific actions taken in addressing this excess weapons material threat, special interests and/or bias and ideological critics who would seek to block the program with protests in the name of having "a higher vision" than the rest of us, or even by legal challenges, despite it otherwise being a broad-based acceptable solution, are doing a gross disservice to our country. The overwhelming public interest clearly lies in implementing an effective and timely solution. A solution which has broad public and political consensus, which is being hampered by a limited special interest challenge, has a strong argument for passing over those objections, especially when they are clearly politically motivated, largely procedural, filled with slanted and inflammatory "scare tactic

F-034

BOARDMAN, CHARLES, SARATOGA, CA
PAGE 5 OF 5

rhetoric" or otherwise without substantive merit, considering the all the risks and options.

DOE disposition actions must remain focused on the nature and potential of the immediate threat of divergence of weapons useable materials and the timeliness and reliability of the response and solution to the threat offered by the proposed options, and not on "micro" issues of cost, support or non-support of nuclear power, value or use of the Pu material, and local or regional economic or political interests.

The LWR option would seem to be the only credible option for the U.S. to offer the Russians to enter into a bilateral program. Anything that does less, does nothing to reduce the threat of diversion of Russian material which will remain at risk until converted into a form not readily useable in weapons.

5/08.03.01

F-034

08 03 01

Comment Number 5

The Department of Energy acknowledges the commentor's support for the Existing LWR Alternative. Decisions on disposition of weapons-useable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

**BOATMEN'S FIRST NATIONAL BANK OF AMARILLO,
AMARILLO, TX, JOE M. STANGE**

PAGE 1 OF 2

**BOATMEN'S
FIRST NATIONAL BANK
OF AMARILLO**

DOWNTOWN CENTER
701 South Taylor
Post Office Box 1301
Amarillo, Texas 79100
806 376-1400

JOE M. STANGE
Vice President
806 376-1807

April 19, 1996

U.S. Department of Energy
Office of Fissile Materials
P.O. Box 23786
Washington, DC 20026

I appreciate the chance to comment on the U.S. Department of Energy's (DOE) Programmatic Environmental Impact Statements (PEIS's), Stockpile Stewardship and Management (SSM) and Storage and Disposition (SDA) of Weapons - Usable Fissile Materials. These three areas affect Pantex, Amarillo, and the Panhandle area in a significant manner.

One of my concerns is the continuing expansion and operation of Pantex that would be conducive to the environment and health matters. This continued operation and expansion of Pantex must be conducted in a safe and environmentally sound manner with proper evaluation and research being completed.

1/09.00.04

The decision by the DOE to select Pantex as the preferred alternative for assembly and disassembly is certainly appreciated and I think this reflects the confidence in Pantex. Also, the cost related to moving this facility would be prohibitive. However, by failing to recognize Pantex as the preferred site for new stockpile management facilities the DOE has overlooked the best site to attain maximum efficiencies and cost savings.

I am sure Pantex is the most cost effective facility for any new construction of SSM facilities such as labor costs, utility rates and water and land availability at Pantex. It would be a natural to consider Pantex for an alternative site to compliment the activities at the Los Alamos National Laboratory. DOE makes no mention of a strategic plutonium reserve that is necessary to meet future national security needs, even though the PEIS mentions that strategic storage should be co-located with disassembly. Pantex should be a preferred site for such a project in coordination with the management functions. When the basic technical capabilities are already located at a site such as Pantex with its excellent

M-045

09 00 04

Comment Number 1

The Department of Energy is committed to maintaining existing facilities to ensure safe operation for the life of the facilities. For all storage and disposition alternatives being evaluated at Pantex, compliance with all Federal, State, and local regulations and DOE Orders is an integral and important part of each storage or disposition facility design.

BOATMEN'S FIRST NATIONAL BANK OF AMARILLO,
 AMARILLO, TX, JOE M. STANGE
 PAGE 2 OF 2

record it would be most cost effective to use that location. In their discussion process, DOE should use budgetary comparisons, and capital requirements, available transportation, skilled people, and other costs.

For basically the same reason mentioned above the High Explosives (HE) fabrication should remain at Pantex. The SSM draft admits that Pantex must retain HE capabilities to process the inventories already on site from the dismantling process which certainly would be the least expensive alternative. When everything is considered transferring the HE function from Pantex would cost taxpayers over \$40M. Also, if it becomes necessary for new weapon production, it would be very important to have the HE facilities at the weapons production and assembly site.

With Pantex being the only authorized facility for assembly and disassembly of nuclear weapons, they have maintained an excellent record of safety and efficiency for over 40 years. DOE is considering several options regard Plutonium Storage and Disposition (PEIS) which is a result of the dismantling. Pantex could continue to store plutonium which is already at the site and upgrade the facility for an and all storage being considered by the DOE with minimized cost. It makes no sense at all to recreate storage facilities at another location and then unnecessarily transport large amounts of plutonium across the country from Pantex.

Based upon these reasons, I respectfully urge DOE to designate Pantex as the preferred alternative site for all existing and new stockpile management and stewardship foundations as well as consolidation of all plutonium storage and disposition and related functions.

Thanks for allowing individuals to express their thoughts.

Sincerely,


 Joe M. Stange
 Vice President

2/08.03.01

M-045

08 03 01

Comment Number 2

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.



NAME: (Optional) Cecil Merl Bohlender
ADDRESS: 1600 Turtle Creek, Pampa, TX 79065
TELEPHONE: 806, 665 3400

I attended the Meeting at Radisson Hotel at Amarillo April 23-26.

I have considered much of which was discussed we
I am a Pantex environment Citizen member on a special
Committee for the water clean up and fully approve of the
way it is being handled and it is a best way of
handling clean up of water in the future. All said
the cleanup is very good.

I have some thoughts upon hearing questions asked about
the storage and handling of nuclear weapons parts and
Plutonium in containers stored at Pantex, or any
other sites in the USA. I believe Plutonium should be
permanently stored at Pantex.

I believe it is being handled in the safe-guard way
for all concerned. The security of the plant area is sufficient
however as we may have heard within our country as has
been in the past years I feel we need to provide the
storage area with heavy armament handled maybe
by a small contingent of Military surrounding the plant
and storage. My thinking of maybe at least two thousand
men, with twenty four hour threat tanks and armor support
necessary to put down any invasion of this area as we
all know how the different organized groups may possibly
raid the storage and hold the whole country at bay and
ransom the people of their freedom.

I heard from the comments made at the hearings Pantex has
people living on the edge of its borders with followers that
are not conscient to all good. I believe the stewardship
and management of the storage of Plutonium should take note.

(on back)

1/08.03.01

2/13.00.00

M-075

08 03 01 Comment Number 1

The Department of Energy acknowledges the commentor's support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

13 00 00 Comment Number 2

Comment noted. Prior to implementation of the Proposed Action, a well-thought-out security plan that meets international standards would be in place. Facilities would be inspected by IAEA, as appropriate.

BOHLANDER, CECIL, PAMPA, TX
PAGE 2 OF 2

*I am 71 yrs old, Retired
had my own Companies for many yrs
Contribory building gas & oil related plants
setting heavy equipment throughout the
central U.S.*

M-075

Comment Form
 This comment applies to the following document:
 Storage and Disposition of Spent Fuel
 Storage, Stewardship, and Management Draft PEIS
 Analysis of Spent Fuel PEIS

United States Department of Energy

NAME: (Optional) JAMES E. BOLEN
 ADDRESS: P.O. BOX A, AIKEN, SC 29801-3
 TELEPHONE: 803 729 1920

THE POSITION THE UNITED STATES HAS BEEN TAKING REGARDING THE RECYCLING & REPROCESSING OF SPECIAL NUCLEAR MATERIALS IS EARLY OUTDATED. THE WORLD HAS DEMONSTRATED ITSELF TO BE AN ANGRY, HOSTILE PLACE, HOWEVER IT IS ALSO A PLACE WHERE TECHNOLOGICAL IDEAS ARE OFTEN GIVEN OPPORTUNITIES TO DEVELOP. OTHER NATIONS ~~HAVE~~ ^{WILL} CONTINUE TO DEVELOP & PRODUCE NUCLEAR MATERIALS AND PRODUCTION CAPABILITIES OF MANY KINDS, REGARDLESS OF ANY STANDING U.S. POLICIES ON THESE ISSUES. EUROPE AND ASIA HAVE SUCCESSFULLY DEMONSTRATED THEIR ENERGENCY TO REPROCESS/RECYCLE NUCLEAR MATERIALS.

THE UNITED STATES WILL CONTINUE TO FALL BEHIND IN THE AREA OF NUCLEAR POWER/PROCESSING AS LONG AS IT ERRANTLY BELIEVES THE PRETENSE THAT THE REMAINDER OF THE WORLD WILL SUBSCRIBE TO OUR QUESTIONABLE PHILOSOPHY AND POLICY OF NON-REPROCESSING/RECYCLING OF OUR ~~SPENT~~ URANIUM/PLUTONIUM.

THE UNITED STATES WILL BE THE ONLY LOSER SHOULD IT CONTINUE TO ADOPT POLICIES ~~WHICH~~ WHICH DISCOURAGE NUCLEAR FUEL REPROCESSING/RECYCLING. THE TIME FOR DISCONTINUING THIS 1970'S ERA ~~DECISION~~ DECISION IS NOW

1/15.00.00

2/01.00.00

SR-006

15 00 00 Comment Number 1

Comment noted.

01 00 00 Comment Number 2

While the PEIS discusses the generation of spent fuel as an indirect result of potential disposition actions, any subsequent reprocessing and extraction of Pu from that spent fuel is beyond the scope of the PEIS and the fundamental nonproliferation purpose of the disposition effort. Although the PEIS evaluates disposition of surplus weapons Pu through use in MOX fuel it does not further evaluate reprocessing of the spent fuel. This does not foreclose policy or technology options nor does it prejudice future decisions regarding the management or disposition of the spent fuel.

BONNER, PATRICK, SOUTH GATE, CA
PAGE 1 OF 2

9616 Deeble St Apt A
South Gate CA 90280
May 5, 1996

To the United States Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington DC 20026-3786

I am seriously concerned about the Programmatic Environmental Impact Statement prepared for the Department of Energy regarding Storage and Disposition of Weapons-Usable Fissile Materials.

Although I recognize the need to assure safe, secure, long-term storage and disposition of the significant quantities of surplus fissile materials, I believe this document fails to address very important issues. Additional alternative sites must be considered.

In reviewing the alternative for the possible future of the Pantex site in the Texas Panhandle, it becomes evident that all of the nation's weapons-usable plutonium not in active warheads would be stored at Pantex.

Before 1989, plutonium pits were never stored at Pantex. But with the closing of Rocky Flats, Pantex has become the interim storage site for at least 12,000 pits. Now this document proposes storing not only plutonium pits, but other more undesirable forms of plutonium.

Pantex is being considered for a plutonium pit disassembly/conversion facility to cut the pits and process them into metal or oxide, a plutonium conversion facility to process other types of Plutonium, a facility to mix plutonium with uranium, nuclear power reactors, and storage of spent fuel from the reactors, and storage of all mixed waste generated from these processes.

The document fails to address the impact on agricultural products produced in the Texas Panhandle. And it fails to address the location of Pantex above the Ogallala aquifer, which provides groundwater for the plains of Texas and seven other Midwestern food producing states. Pantex has already contaminated the fine-grained layer of water-bearing sands above the Ogallala aquifer with high explosives, chemicals, solvents, and radionuclides. With the downward migration of the recharging waters, how long will it be before the Ogallala is contaminated?

Food is our nation's most important product and must be protected.

1/01.04.00

2/09.09.04

3/09.04.04

M-163

01 04 00 Comment Number 1

Comment noted.

09 09 04 Comment Number 2

The PEIS considers and analyzes the impacts to prime farmlands potentially caused by air emissions and radiation releases to determine any effects on agricultural products. Statements can be made that part of a region's economy (for example, agriculture) would be adversely impacted by a release of nuclear material.

09 04 04 Comment Number 3

Current and future operations at Pantex are not expected to affect the water quality of the Ogallala Aquifer. However, since this aquifer is being depleted (that is, the current withdrawal is exceeding the current recharge), Pantex operations contribute to the depletion of the Ogallala Aquifer and are analyzed in the PEIS.

The Texas Panhandle is too valuable an agricultural area to be jeopardized by using it for plutonium storage, processing and waste.

4/08.03.01

Sincerely



Patrick Bonner

M-163

08 03 01

Comment Number 4

The Department of Energy acknowledges the commentor's opposition to new missions at Pantex. Decisions on storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

BRECHIN, VERNON J., MOUNTAIN VIEW, CA
PAGE 1 OF 6

June 7, 1996

Vernon J. Brechin
 255 S. Rengstorff Ave. #49
 Mountain View, CA
 (415) 961-5123

DOE-Office of Fissile Materials Disposition
 c/o SAIC-PEIS
 P.O. Box 23786
 Washington, DC 20026-3786

Dear Sir:

What follows are my:

Public Comments on the
 "Storage and Disposition of Weapons-Usable Fissile Materials
 Draft Programmatic Environmental Impact Statement" - February 1996
 (DOE/EIS-0229-D).

Henceforth, the document, upon which I am commenting upon, will be referred to as "S&D DPEIS." This document was a product of the U.S. Department of Energy's Office of Fissile Materials Disposition.

General comments:

This S&D DPEIS document did a better job of presenting and analyzing the numerous alternatives than did some of the other EISs that I have reviewed. I counted 16 alternatives in this draft document and found that to be excessive. If one adds in the site options, the number of overlapping and interacting alternatives climbs to over a hundred. This does not help the public or other agencies to analyze the options. I was glad to see that the Department had dropped the accelerator based transmutation scheme as being too uncertain.

I hope the final S&D DPEIS drops all the alternatives that do not lead directly to very near-term stabilization and storage. The chosen storage form should be ready for disposal in a High Level Nuclear Waste Repository or be ready for conversion to such a form. All the alternatives, that lead to the production of MOX fuel for use in a wide variety of reactors, should be dropped. These schemes are clearly designed to prop-up nuclear power advocates despite the clear economic uncertainty of future nuclear power development. The department's biggest environmental headaches resulted from the feeding of fissile materials into reactors. Until, the department is actually engaged in the final disposition of reactor produced wastes, they should not be suggesting the deliberate production of more reactor produced wastes.

I favor the long-term storage alternative that involves the "collocation of plutonium and highly enriched uranium at a single site." I suggest that you reconsider a site which you apparently

1/01.04.00

2/01.04.00

3/08.03.01

4/08.03.01

5/01.04.00

M-266

01 04 00 Comment Number 1

Comment noted. While the PEIS evaluates a significant number of technical alternatives and sites, DOE feels this is not an excessive number since two proposed actions are being evaluated: long-term storage and disposition of weapons-usable fissile materials. Furthermore, the same six DOE sites are evaluated for both storage and disposition.

01 04 00 Comment Number 2

Comment noted.

08 03 01 Comment Number 3

The Department of Energy acknowledges the commentator's opposition to the Reactor Alternative using MOX fuel. Decisions on disposition of weapons-usable fissile materials will be made based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 4

The Department of Energy acknowledges the commentator's support for the Collocation Alternative. Decisions on storage alternatives will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

01 04 00 Comment Number 5

Combined storage of pits and non-pit Pu at the Manzano WSA was originally eliminated as a reasonable alternative in the Draft PEIS. After considering separate storage of pits from non-pit Pu, the option to store these pits at the Manzano WSA no longer appears unreasonable. The Manzano WSA was evaluated in the Pantex EIS and Section 2.1.3 of the Final PEIS. The Final PEIS was revised to clarify the consideration of the Manzano WSA for combined storage, and a description of the WSA was included in Appendix P.

dropped with little explanation. This site is at Kirtland Air Force Base's Manzano Weapons Storage Area. This site could quickly accommodate pit storage, and the construction of new storage facilities could be performed quickly and economically due to the existing infrastructure that surrounds the base.

5/01.04.00
cont.

In the "Disposition" options, I favor the "vitrification" alternative in the "immobilization" category. My second choice is for "Ceramic Immobilization" either in the "Immobilization Category" or in the "Deep Borehole Category." The processing site should be located at the single site where the surplus fissile materials are stored.

6/08.03.01
7/08.03.01
8/08.03.01
9/08.03.01

Upon close examination, of the four thick volumes that constitute the S&D DPEIS, it became clear to me that many of the proposals were highly conceptual in nature. It seems that little thought has gone into the cost and the interrelatedness of most of the numerous proposals. This makes it difficult for the public and other agencies to evaluate the merits of the various proposals. The DOE should reduce the alternatives down to five or less, provide an end depth analysis, and then reissue another draft S&D DPEIS document.

1/01.04.00
cont.

I will now comment on specific problems I have found in this 14 pound stack of documents. All 18 Figures which show the outline or the boundaries of the Nevada Test Site need to be corrected. The portion of the test site, withdrawn under Public Land Order 1662 is not shown on your maps. This portion of the test site extends to the east and lies next to the northeast corner of Area 15. A depiction of this area can be found on page 4-10 in Part A of Volume 1 in the "Draft Environmental Impact Statement for the Nevada Test Site and Off-site Locations in the State of Nevada" - January 1996 (DOE/EIS 0243). All the other maps in this document are also in error. This is due to a deliberate attempt to hide the existence of this area which was once known as Area 51. For 38 years this deception has been propagated throughout all levels of DOE HQ including the Inspector Generals office. The deception has made its way into documents that are presented to Presidential and Congressional oversight committees. DOE has issued hundreds of tons of documents, containing these deceptive maps, which are now found in government repository libraries all across this country. The Cold War has ended and its about time this deception was ended. Please correct the map drawings in the following figures.

10/09.01.02

S&D DPEIS
Volume I

p. 2-18	Figure 2.2.2-1.	2935-NTS/S&D
p. 2-19	Figure 2.2.2-2.	2936-NTS/S&D
p. 2-35	Figure 2.2-2.	2958-NTS/S&D
p. 2-62	Figure 2.3.2.2-3	3175/S&D
p. 2-63	Figure 2.3.2.2-4	3176/S&D
p. 2-71	Figure 2.3.3.2-3.	3139/S&D
p. 2-72	Figure 2.3.3.2-4.	3138/S&D
p. 2-78	Figure 2.4-2.	2940-NTS/S&D
p. 3-68	Figure 3.3.1-1.	2468-NTS/S&D
p. 3-69	Figure 3.3.1-2.	2574-NTS/S&D

M-266

08 03 01 **Comment Number 6**

The Department of Energy acknowledges the commentor's support for the Immobilization Alternative. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 7**

The Department of Energy acknowledges the commentor's support for the Ceramic Immobilization Alternative. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 8**

The Department of Energy acknowledges the commentor's support for borehole disposition using the Immobilization Alternative. Decisions on disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 **Comment Number 9**

Comment noted.

09 01 02 **Comment Number 10**

On June 20, 1958, *Public Land Order 1662* reserved approximately 15,540 hectares (ha) (38,400 acres) for use by the Atomic Energy Commission (AEC) in connection with NTS. The lands described under this Public Land Order are not considered for any storage and disposition alternative. Therefore, the figures in the PEIS do not depict the land area withdrawn under *Public Land Order 1662*.

BRECHIN, VERNON J., MOUNTAIN VIEW, CA
PAGE 3 OF 6

p.3-76	Figure 3.3.4-1.	2404-NTS/S&D	
p.3-77	Figure 3.3.4-2.	2405-NTS/S&D	
p.3-81	Figure 3.3.5-1.	2406-NTS/S&D	
p.3-83	Figure 3.3.6-1.	5125-NTS/S&D	
p.3-86	Figure 3.3.6-2.	2408-NTS/S&D	10/09.01.02
Volume II			cont.
p.4-792	Figure 4.5.1-3	2994-NTS/S&D	
p.4-793	Figure 4.5.1-4	2995-NTS/S&D	
Volume III			
p.M-32	Figure M.2.5-1	2957-NTS/S&D	
Summary Volume			
After the "METRIC CONVERSION CHART" a fact sheet should be provided that briefly describes the characteristics of Pu-239 including its half-life and why it needs to be isolated from the human environment for over a quarter million years. I suggest that you obtain the fact sheet from the Institute for Energy and Environmental Research in Takoma Park, Maryland.			11/08.02.00
Page S-1, Box that describes what constitutes "Weapons-Usable Fissile Materials" It states "All isotopes of Pu..." As such, the Summary Volume and Volume I should state clearly on the "COVER SHEET" and in the "TABLE OF CONTENTS" that a classified appendix has been prepared which involves the separation of plutonium-242, at Savannah River Site's F-Canyon reprocessing facility, for use in the DOE weapons program. The reasons for this classified appendix needs to be explained and all aspects of this project, that have environmental consequences, need to be declassified.			12/10.03.00
Page S-4, "SCOPE OF THE PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT" Third paragraph. This should mention the many metric tons of Pu-239 that lie below the 11 underground nuclear explosion testing sites in the U.S.			13/01.00.00
page S-6, "Development of Disposition Alternatives" "(7)Euratom mixed oxide (MOX) fuel fabrication/reactor burning." It appears that the various MOX options could only be justified if, in the short-term, we paid a premium for Euratom to process our fuel. This alone, should have disqualified all the MOX options. This MOX option, including the need to utilize European facilities, is also mentioned on page S-15 and on the last few lines under "Reactor Category" on pages-23. Since the Europeans cannot support our long-term program we would have to build our own MOX fuel fabrication plant. In the second to the last paragraph on page S-32 it is suggested that a MOX fabrication plant would have virtually no environmental impact on DOE sites. If this is so, then why does such a plant have to go through a gauntlet of licensing procedures that could prevent the plant from ever going into operation?			14/06.01.09
Page S-7, Middle of second paragraph. It should be made clear that while all the MOX fuel will be consumed, most of the Pu-239 will remain in the wastes that is discharged from the reactors.			15/09.11.08
M-266			

08 02 00 **Comment Number 11**

Based on the comment, the half-life of Pu-239 has been included in the text of the PEIS (Chapter 7, *Glossary*).

10 03 00 **Comment Number 12**

The foreword acknowledges the Classified Appendix and includes a brief description of its content. The appendix cannot be declassified at this time.

01 00 00 **Comment Number 13**

These materials are not considered weapons-usable and, therefore, are not included in the scope of this PEIS.

06 01 09 **Comment Number 14**

Comment noted. DOE is evaluating various sites in the United States for MOX fuel fabrication using surplus weapons-usable Pu. DOE is also considering some initial MOX fuel fabrication in Europe (for example, Lead Test Assemblies and core loads). Initial fabrication in Europe could accelerate the start date by a few years.

09 11 08 **Comment Number 15**

The Summary of the Draft PEIS was revised to state that MOX fuel is not actually consumed through irradiation, but Pu-239 is fissioned. The MOX fuel would be used in the reactor until it meets the Spent Fuel Standard or is no longer usable for generation of electric power. Upon removal, the spent MOX fuel assemblies would still have some Pu-239 similar to spent conventional uranium fuel assemblies.

<p>Page 5-34, "Partially Completed Light Water Reactor Alternative" First line of the third paragraph. "Use of a partially completed LWR where construction of the reactor, turbine and auxiliary buildings, and cooling towers and ponds has been halted would involve the completion of these facilities with the implementation of this alternative." The use of the U.S. DOE to prop up a severely failed private project is not an appropriate use of tax dollars.</p>	16/08.03.01
<p>Volume I</p> <p>Page 2-110, "Transportation." The second line indicates that High Level Waste (HLW) would be transported "... (via pipeline)." There was no further description or analysis of this option. It was also not clear how the cesium-137 capsules would be transported and I did not see any analysis of this issue.</p>	17/10.00.00
<p>Page 3-67, First line. Change 350,000 ha to 322,195 ha and change 864,000 acres to 796,160 acres. The later values are the legal values.</p>	18/09.01.02
<p>Page 3-227, Second paragraph, sixth line. "However, some stored nuclear materials will require additional processing or conversion into forms suitable for continued safe storage, use or transportation to other DOE sites." If this statement is in reference to the plutonium-242 at Savannah River Site's F-Canyon reprocessing facility, then the PEIS should make this clear. If the reference is to some classified activity then this fact should be clearly stated in the PEIS.</p>	19/09.00.06
<p>Volume II</p> <p>Page 4-443, First paragraph, first line. "During the post-closure period, the borehole array area of 25 ha (60 acres will be declared a limited access area indefinitely...." The S&D PEIS should explain, in detail, what is meant by the term "indefinitely." At the end of the paragraph, the term "perpetuity" is used. Again, the reader deserves to know what is meant by the use of this term. The last line then states that "Such restrictions could be institutionalized by constructing drilling barriers and installing a variety of permanent markers." Just how permanent would these markers need to be? Should we expect the institutionalized DOE bureaucrats to maintain these barriers long after our federal government has collapsed? Could this provide job security for the next quarter million years?</p>	20/09.02.08
<p>I suggest that the terms indefinitely, institutionalized, Perpetually and Perpetuity be added to the Glossary.</p>	21/16.00.00
<p>And a final note: In Volume III, on page G-23 there is "Figure G.4-4. AT-400A Packaging for the Transport of Plutonium Pits." The plutonium-239 pit is the heart of a nuclear weapon and I do realize why the pit sphere in the center is not drawn to scale. In any case, there has been a mix-up in the labeling of the shipping container parts</p>	22/10.00.00
	M-266

08 03 01 **Comment Number 16**

The Department of Energy acknowledges the commentor's concern about the disposition of Pu using the partially completed LWR (commercial). Decisions on the disposition of weapons-usable fissile materials will be based on environmental analyses, technical and economic studies, national policy considerations, and public input.

10 00 00 **Comment Number 17**

Further information concerning this statement regarding the Vitrification Alternative can be found in Section 4.4 and Appendix G of the PEIS. Data summaries regarding the transport of high-level waste (HLW) as well as Cs pellets are located in Table 4.4.2.2-1.

09 01 02 **Comment Number 18**

The NTS land area as presented in the PEIS is identical to that in the *Nevada Test Site Development Plan* and the *Final Environmental Impact Statement for NTS and Offsite Locations in the State of Nevada, Volume I, Chapters 1-9, Part A, January 1996*. Section 4.2.2.1 of the Final PEIS was revised to reference these documents.

09 00 06 **Comment Number 19**

The information presented in Chapter 3 of the PEIS depicts the "Affected Environment" for the various storage and disposition sites analyzed in the document. The affected environment descriptions provide the context for understanding the environmental changes that may be brought about by implementation of the Proposed Action and alternatives.

Consequently, Section 3.7 describes environmental conditions as they currently exist at SRS. This includes some material which was identified in the *Plutonium Working Group Report on Environmental, Safety and Health (ES&H) Vulnerabilities Associated with DOE's Plutonium Storage* as requiring corrective actions to ensure compliance with high-priority ES&H requirements. These corrective actions are assumed to have been completed as part of the No Action

BRECHIN, VERNON J., MOUNTAIN VIEW, CA
PAGE 5 OF 6

diagram. The labels "Stainless Steel/Foam Insert Cover (Lower)" and "Containment Vessel Lower Shell" have been interchanged. I suggest that this be corrected.

22/10.00.00
 cont.

-END-of comments

Sincerely,

Vernon J. Brechin
 Vernon J. Brechin

cc. Kathleen A. McGinty - Council on Environmental Quality
 William D. Dickerson - EPA
 Christopher Paine - Natural Resources Defense Council (NRDC)
 Arjun Makhijani - Institute for Energy and Environmental
 Research (IEER)
 Joan Glickman - Public Accountability (HQ DOE)
 Dan W. Reicher - PDAS for Policy (HQ DOE)
 Robert Alvarez - DAS for Natl Sec & Env Rest Pol (HQ DOE)
 Senator John Glenn - (Ohio)
 Senator Harry Reid - (Nevada)
 Senator Richard H. Bryan - (Nevada)
 Stephen I. Schwartz - Nuclear Weapons Cost Study Group
 The Brookings Institution, Wash., DC

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Alternative, and, prior to transportation to any storage or disposition site, analyzed in the PEIS. A brief description of the corrective actions planned under the No Action Alternative for SRS are presented in Section 2.2.6 of the PEIS.

09 02 08

Comment Number 20

Words such as "indefinitely" and "in perpetuity" are used in this case because the fissile materials emplaced at the Deep Borehole Disposal Facility would be required to remain safe, secure, and monitored by national means of detection for a very long time. Since the half-lives of Pu-239 (24,500 years) and its fissile decay product, U-235 (7.1×10^8 years) are so long, the intended use of these two words is essentially the same.

An important criteria every reasonable disposition alternative must meet is "to provide resistance to retrieval, extraction, and reuse by the host nation." To satisfy this criteria, the borehole complex will be made as visible as possible to domestic and international means of detection. One way this can be done is to make the borehole array a limited access area (LAA) and restrict surface activities around the array "indefinitely." Installing highly visible permanent markers makes the deep borehole array easier, for means of detection, to locate and observe during the post-closure period. Thus, this action will allow any monitoring agency to determine if the area is being entered on a regular basis. By installing barriers to drilling, any attempt by the host or other nation, to extract the material from the deep borehole array would take more time than if the barriers were not there. The additional retrieval time will ensure that any interested, monitoring agency would be able to detect and react to the excavation attempt long before the material could actually be extracted.

The Department of Energy expects that if a Deep Borehole Alternative is selected, these or similar actions would be put in place and used until such time that meeting this criteria was no longer important to our national interests.

16 00 00 **Comment Number 21**

These terms are used in a manner consistent with common usage, and therefore, not included in the Glossary.

10 00 00 **Comment Number 22**

The commentor is correct, and the change was made to Figure G.4-4.

BREEDING, PAULA
PAGE 1 OF 2

I don't live by Pantex, but I do own land across from Pantex. I am
Some people try to blame us as being tree huggers.
 considered an environmentalist ~~although~~ I have never hugged a tree

in my life. I am very concerned about the water in our area. It
 looks like our City Fathers would be, since they are pumping our
 water from underneath Pantex, and it can hurt them as much as
 any one. However they bragged about drinking water at Rocky
 Flats, so I guess we can't expect much from them.

I don't want PU stored here. However we are doing it now, and I
 expect Pantex to be the dumping ground for PU. I am not a NMBE
 person. I don't want it here but I don't think someone else should
 have the problem. It is also too dangerous to transport.

We are asking for disaster if PU processing comes to Pantex. We
 will be another Rocky Flats, and probably worse.

There was an editorial in the paper today by a Pantex employee. He
 said in part "In the event that Pantex is chosen to do new types of
 work and a different mission, the work force will decide whether to
 proceed or not. All the approval from the DOE, the labs, Congress
 and the President himself will not persuade Pantexans to do

1/08.03.01

TX-058

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's opposition to new
 missions at Pantex. Decisions on storage and disposition of weapons-usable
 fissile materials will be based upon environmental analyses, technical and
 economic studies, national policy considerations, and public input.

Waste/hazardous material treatment/handling operations are regulated to
 minimize the potential for releases of hazardous substances to the soil or
 surface water which could then migrate to the groundwater.

something we think should not be done". I guess that is one of the most naive statements I have ever heard. This might happen on private business but I don't think an employee could tell DOE what to do. By the time he finds out how things are and how dangerous they are, it will be much too late. He will also find out he can't make as money as he does at Pantex.

I hope we can find some way to dispose of PU that is not hazardous to our land, water, and air. If we do, then I guess miracles do happen.

TX-058

To DOE:
I am native to Las Vegas and the idea of sending everyone else's garbage in my backyard rings a chord of deep anger.

I sense a spirit of great arrogance those in power have in dealing with our nuclear waste problem. They don't know the beauty of the desert the way I know it so they take our whole state as a waste land. It's easy for a New Yorker or Floridan to care less when our water is ~~ta~~ tainted with nuclear pollutant or an accident ruins the image of our city as a place of destination. I don't trust our government to be honest about these matters. They went honest to my family living in Southern Utah.

M-040

The State economy's that benefit
from Nuclear power should be the
the same states that live with
the risk of that benefit.

I am strongly against Nuclear
waste being stored in my backyard. | 1/08.03.01
I ask that all this bullying come
to an end and that idea of
States rights be brought to mind.
This State doesn't want your
garbage.

Brian Breesee

M-040

08 03 01

Comment Number 1

The Department of Energy acknowledges the commentor's opposition to new missions at NTS. Decisions on the storage and disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

BRIGHT, HORACE T., SPARTANBURG, SC
PAGE 1 OF 1

 Comment Form These comments apply to the following documents: <input checked="" type="checkbox"/> Storage and Disposition Draft PEIS <input checked="" type="checkbox"/> Stockpile Stewardship and Management Draft PEIS <input checked="" type="checkbox"/> Pantex Site-Wide Draft EIS	
United States Department of Energy	
NAME: (Optional)	HORACE T. BRIGHT
ADDRESS:	484 CAROLYN DR. SPARTANBURG, S.C.
TELEPHONE:	864-585-5557
	<p>The DOE should NOT consider the SAVANNAH RIVER SITE for continued operation of the PANTEX STORAGE or component work.</p> <p>The CONTRACTOR FOR SAV-RIVER has NO CONCERN OR VALUE FOR ENVIRONMENTAL, ITS PERSONNEL & THE PUBLIC -</p> <p>This past month a shipment to OAK RIDGE TENN - shows how concerned they are. The STATE OF TENN will NOT let SAV RIVER ship to OAK RIDGE</p> <p>The PANTEX STORAGE & DISPOSITION OF WEAPONS-USABLE FISSILE MAT- should STAY IN CARSON COUNTY TEXAS - CONVERSION TO (MOX) FUEL FOR REACTORS. That sale to the 109 COMMERCIAL LIGHT WATER REACTORS</p> <p>HORACE T. BRIGHT 5-3-76</p>
1/11.01.04	
2/08.03.01	
3/08.03.01	

M-157

11 01 04 Comment Number 1

The interim storage of Pantex pits and equipment at SRS was addressed in the Pantex EIS.

08 03 01 Comment Number 2

The Department of Energy acknowledges the comment in support of Pantex. Decisions related to future missions at Pantex will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 3

The Department of Energy acknowledges the commentator's support for the Reactor Alternative using MOX fuel. Decisions will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic
 Environmental Impact Statement (PEIS) Public Comment Form

Name (optional): Rosemary E. Brodie
 Address (optional): 1844 NE 40th
Seattle, WA 98115

Please write down your comments and drop this form in the marked boxes before you leave tonight. These forms will be submitted to the Department of Energy as part of the formal comment on this PEIS. If you are unable to complete this form tonight, written comments can be mailed to:

Department of Energy
 Office of Fissile Materials Disposition
 P.O. Box 23786
 Washington, D.C. 20026-3786

or, you can call this toll-free number to leave comments by phone: 1-800-820-5156. Comments must be submitted by May 7, 1996.

The Department of Energy has identified three types of technologies as options for disposing of weapons-usable fissile materials. The Department has also considered a "no action alternative" which would result in long-term storage of these materials. Please write down your comments on the following three types of options for disposal and the storage option.

1. Materials Immobilization/Vitrification - Immobilize fissile materials by mixing them with glass, glass bonded zeolites, or ceramics.

This must be done for all the radioactive waste. | 1/08.03.01

2. Deep borehole disposal - Materials would be disposed in boreholes at least 2.5 miles deep, in geologically stable formations. Materials could be disposed directly into the deep borehole, or materials could be immobilized first, and then deposited into the deep borehole.

No good | 2/08.03.01

3. Reactor Options - Surplus plutonium/highly enriched uranium would be made into MOX fuel for use in nuclear reactors, destroying by fission a major portion of the weapons grade materials

No good | 3/08.03.01

4. Storage Options - USDOE would continue existing storage practices for weapons-usable fissile materials at current locations and/or consolidate that storage at one or more of the designated sites.

No good | 4/08.03.01

M-248

08 03 01 Comment Number 1

The Department of Energy acknowledges the commentator's support for new missions at Hanford. Decisions on storage and disposition of weapon-usable fissile materials will be based on environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 2

The Department of Energy recognizes the commentator's concern with the Borehole Alternatives. Decisions on the disposition alternatives will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 3

The Department of Energy acknowledges the commentator's opposition to the Reactor Alternatives. However, NEPA requires that DOE look at all reasonable alternatives and, therefore, reactor burning must be considered. Decisions on the disposition of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

08 03 01 Comment Number 4

The Department of Energy acknowledges the commentator's opposition to long-term storage. Decisions on storage of weapons-usable fissile materials will be based upon environmental analyses, technical and economic studies, national policy considerations, and public input.

BRUNNENKANT, C., SEATTLE, WA
PAGE 1 OF 2

Storage and Disposition of Weapons-Usable Fissile Materials Draft Programmatic
Environmental Impact Statement (PEIS) Public Comment Form

Name (optional): C. BRUNNENKANT
Address (optional): 1234 7th Ave S
Seattle 98178

Please write down your comments and drop this form in the marked boxes before you leave tonight. These forms will be submitted to the Department of Energy as part of the formal comment on this PEIS. If you are unable to complete this form tonight, written comments can be mailed to:

Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, D.C. 20026-3786

or, you can call this toll-free number to leave comments by phone: 1-800-820-5156. Comments must be submitted by May 7, 1996.

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1. Materials Immobilization/Vitrification - Immobilize fissile materials by mixing them with glass, glass bonded zeolites, or ceramics.

2. Deep borehole disposal - Materials would be disposed in boreholes at least 2.5 miles deep, in geologically stable formations. Materials could be disposed directly into the deep borehole, or materials could be immobilized first, and then deposited into the deep borehole.

3. Reactor Options - Surplus plutonium/highly enriched uranium would be made into MOX fuel for use in nuclear reactors, destroying by fission a major portion of the weapons grade materials.

4. Storage Options - USDOE would continue existing storage practices for weapons-usable fissile materials at current locations and/or consolidate that storage at one or more of the designated sites

BRUNNENKANT, C., SEATTLE, WA
PAGE 2 OF 2

Please use this space to write down any additional comments on the Storage and Disposition of Weapons-Usable Flexible Materials Draft Programmatic Environmental Impact Statement.

My primary concern is to dispose of plutonium in a way that it is hard to retrieve it as bomb material.

I am interested in moving ahead with an encouraging the Russians to dispose of their P.V. material even if it takes some of my tax \$\$. Maybe a pilot abys would be to help the Russians refigure out weapons grade material.

Cost should be considered as well.

1/01.03.00

01 03 00 Comment Number 1

Comment noted.

M-228