



Department of Energy
Washington, DC 20585

October 30, 1998

Mr. D. J. Mowatt
Apache Tribe of Oklahoma
P.O. Box 1220
Anadarko OK

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Mr. Mowatt:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Apache Tribe of Oklahoma may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

The *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. DOE is producing the SPD EIS in compliance with the National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA, DOE's NEPA Implementing Regulations (10 CFR 1021), and other applicable federal and state environmental legislation.

The purpose and need for the proposed action is to reduce the threat of nuclear weapons proliferation worldwide by disposing of surplus plutonium in the United States in an environmentally safe and timely manner. The SPD Draft EIS, a copy of which is attached for your review, examines the potential environmental impacts for 24 alternatives for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion; mixed oxide (MOX) fuel fabrication; and plutonium conversion and immobilization.

Mr. D. J. Mowatt
Apache Tribe of Oklahoma
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If an alternative is selected that includes siting of surplus plutonium disposition facilities at the Pantex plant (e.g., Alternative 9A), a maximum of 16 hectares (39 acres) of land in or near Zone 4 would be impacted. Based on previous consultations, no traditional cultural properties have been identified in Zone 4 or immediately adjacent areas.

If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149.

You may also contact Vicki Battley, Pantex Environmental Protection Team Leader, at (806) 477-3189.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: Vicki Battley, DOE - Amarillo Area Office
Brandt Petrusek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy
Washington, DC 20585

October 30, 1998

Mr. Don Wauahdooh
Comanche Tribe of Oklahoma
HC32 P.O. Box 1720
Lawton OK 73502

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Mr. Wauahdooh:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Comanche Tribe of Oklahoma may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

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Mr. Don Wauahdooh
Comanche Tribe of Oklahoma
10/30/98
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U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149.

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Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: Vicki Battley, DOE – Amarillo Area Office
Brandt Petrsek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy

Washington, DC 20585

July 28, 1998

Mr. Robert Short
Field Supervisor
U.S. Department of Interior
Fish and Wildlife Service
Ecological Services Field Office
711 Stadium Drive East
Suite 352
Arlington, TX 76001

Dear Mr. Short:

INFORMAL CONSULTATION UNDER SECTION 7 OF THE ENDANGERED SPECIES ACT FOR SURPLUS PLUTONIUM DISPOSITION

The Department of Energy (DOE) published its Notice of Intent to prepare the *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) in the Federal Register (Vol. 92, No. 99) on May 22, 1997. This SPD EIS is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. To summarize, the purpose of the proposed action is to reduce the threat of nuclear weapons proliferation worldwide in an environmentally safe and timely manner by conducting disposition of surplus plutonium in the United States, thus setting a nonproliferation example for other nations.

The SPD Draft EIS, a copy of which is attached for your review, examines twenty-four alternatives and analyzes the potential environmental impacts for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion, mixed oxide (MOX) fuel fabrication, and plutonium conversion and immobilization. The Pantex Plant near Amarillo, Texas is a candidate site for receiving the pit conversion and MOX facilities. Alternatives 9A, 9B, and 10 propose locating both the pit conversion and MOX facilities in new construction in Zone 4 at Pantex. Although there are other alternatives that would locate only the pit conversion facility at Pantex, the alternatives that include both facilities have the greater potential for impacts on ecological resources. The candidate sites and alternatives are shown in Table 2-1 of the SPD Draft EIS. Please note that where practical, the modification of existing buildings is being considered.

Preliminary analyses suggest that overall impacts on ecological resources from constructing and operating the proposed surplus plutonium disposition facilities would be limited because the land area required (16 hectares [39 acres]) is relatively small in comparison to regionally available habitat; habitat disturbance would be minimized because construction would take place in previously disturbed or developed areas; and operational impacts would be minimized because



facility releases of airborne and aqueous effluents would be controlled and permitted. Section 4.26.3.3 of the SPD Draft EIS presents the ecological resources analysis for Pantex.

Although sources indicate that no critical habitat for any threatened and endangered species exists at Pantex, three special status species (ferruginous hawk, western burrowing owl, and Texas horned lizard) may potentially be found within the areas surrounding Zone 4. Noise disturbance is probably the most important impact affecting local wildlife populations.

Consistent with the Endangered Species Act, DOE requests that the Fish and Wildlife Service provide any additional information on the presence of threatened and endangered animal and plant species; both listed and proposed, in the vicinity of Zone 4 at Pantex. Information on the habitats of these species would also be appreciated. DOE also requests information on any other species of concern that are known to occur or potentially occur in the vicinity of Zone 4.

As part of DOE's National Environmental Policy Act process, DOE encourages the Fish and Wildlife Service to identify any concerns or issues that it believes should be addressed in the SPD EIS. To facilitate incorporation of your input into the SPD Final EIS, please provide a written response by September 16, 1998.

Please mail your response to:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

If you have any questions, please contact me at (202) 586-0149.

Sincerely,



Marcus Jones
SPD EIS Document Manager

cc: Tim Greene, Battelle
Vicky Loucks, DOE



Department of Energy

Washington, DC 20585

July 28, 1998

Ms. Pat Martin
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, TX 78744

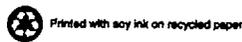
Dear Ms. Martin:

The Department of Energy (DOE) published its Notice of Intent to prepare the *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) in the Federal Register (Vol. 92, No. 99) on May 22, 1997. This SPD EIS is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. To summarize, the purpose of the proposed action is to reduce the threat of nuclear weapons proliferation worldwide in an environmentally safe and timely manner by conducting disposition of surplus plutonium in the United States, thus setting a nonproliferation example for other nations.

The SPD Draft EIS, a copy of which is attached for your review, examines twenty-four alternatives and analyzes the potential environmental impacts for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion, mixed oxide (MOX) fuel fabrication, and plutonium conversion and immobilization. The Pantex Plant near Amarillo, Texas is a candidate site for receiving the pit conversion and MOX facilities. Alternatives 9A, 9B, and 10 propose locating both the pit conversion and MOX facilities in new construction in Zone 4 at Pantex. Although there are other alternatives that would locate only the pit conversion facility at Pantex, the alternatives that include both facilities have the greater potential for impacts on ecological resources. The candidate sites and alternatives are shown in Table 2-1 of the SPD Draft EIS. Please note that where practical, the modification of existing buildings is being considered.

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Although sources indicate that no critical habitat for any threatened and endangered species exists at Pantex, three special status species (ferruginous hawk, western burrowing owl, and Texas horned lizard) may potentially be found within the areas surrounding Zone 4. Noise disturbance is probably the most important impact affecting local wildlife populations.



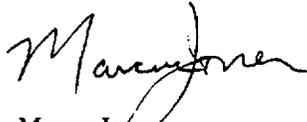
As part of DOE's National Environmental Policy Act process, DOE encourages the Texas Parks and Wildlife Department to identify any concerns or issues that it believes should be addressed in the SPD EIS. To facilitate incorporation of your input into the SPD Final EIS, please provide a written response by September 16, 1998.

Please mail your response to:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

If you have any questions, please contact me at (202) 586-0149.

Sincerely,



Marcus Jones
SPD EIS Document Manager

cc: Tim Greene, Battelle
Vicky Loucks, DOE



March 22, 1999

Marcus Jones
SPD EIS Document Manager
U.S. Department of the Interior
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

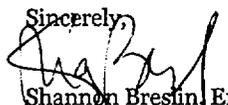
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FT. WORTH
ANDREW SANSON
EXECUTIVE DIRECTOR

Dear Mr. Jones:

Many, many apologies for the delay, but this letter is in response to your request for information on rare species with regard to the July 1998 Surplus Plutonium Disposition Draft Environmental Impact Statement. Although rare species have been mostly addressed, I am concerned about potential impacts to a few more species than I found indicated in the relevant sections and tables in the SPD EIS. To that end, I have enclosed an annotated list of rare species for Carson County and printouts for known nearby occurrence records. I must stress that protection of playa lake quality in this area is imperative to resident and migratory birds, dependent on these diminishing resources. In addition, please minimize disturbance to the numerous prairie dog towns in the immediate vicinity (see enclosed printouts).

The information included is based on the best data available to the state regarding rare species. However, these data do not provide a definite statement as to the presence or absence of rare species within your project area, nor can these data substitute for an on-site evaluation by qualified biologists. This information is intended to assist you in avoiding harm to species that may occur on your site. **Please do not include species occurrence printouts in your draft or final documents. Because some species are especially sensitive to collection or harassment, these records are for reference only.**

Thank you for the opportunity to comment on this project. Again, many apologies for the delay. Please contact me if you have any questions or need additional assistance (512/912-7021 or shannon.breslin@tpwd.state.tx.us).

Sincerely,

Shannon Breslin, Environmental Review Coordinator
Wildlife Diversity Program, Wildlife Division

SLB:sb

enclosures

4200 SMITH SCHOOL ROAD
AUSTIN, TEXAS 78744-3291
512-389-4800
www.tpwd.state.tx.us

CELEBRATING THE 75TH ANNIVERSARY OF TEXAS STATE PARKS IN 1980



Department of Energy

Washington, DC 20585

October 30, 1998

Dr. Rodger Stroup
State Historic Preservation Officer
8301 Parklane Road
Columbia, South Carolina 29223

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process

Dear Dr. Stroup:

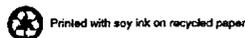
The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the South Carolina State Historic Preservation Office may have about the proposal. This consultation is in accordance with National Environmental Policy Act and Section 106 of the National Historic Preservation Act.

The *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. DOE is producing the SPD EIS in compliance with the National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA, DOE's NEPA Implementing Regulations (10 CFR 1021), and other applicable federal and state environmental legislation.

The purpose and need for the proposed action is to reduce the threat of nuclear weapons proliferation worldwide by disposing of surplus plutonium in the United States in an environmentally safe and timely manner. The SPD Draft EIS, a copy of which is attached for your review, examines the potential environmental impacts for 24 alternatives for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion; mixed oxide (MOX) fuel fabrication; and plutonium conversion and immobilization.

If an alternative is selected that includes siting of surplus plutonium disposition facilities at the Savannah River site (e.g., Alternatives 3A or 3B), a maximum of about 31 hectares (77 acres) of land adjacent to the Actinide Packaging and Storage Facility (APSF) in F-Area, would be impacted. Not all areas within the proposed construction



Mr. Rodger Stroup
State Historic Preservation Officer
10/30/98
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area have been completely surveyed for cultural resources, and this area has a high potential to yield subsurface deposits with cultural material. Based on previous archaeological investigations, four archaeological sites have been recorded in or near the proposed construction areas. One of these sites (38AK546) has been recommended as eligible for nomination to the National Register. All compliance activities, including survey, testing, and impact mitigation would be conducted in accordance with *Programmatic Memorandum of Agreement for the Savannah River Site* (1989).

If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149.

You may also contact Mark Brooks, the Cultural Resources Manager at Savannah River Site, at (803) 725-3724.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: Mark Brooks, Archaeological Program Manager, SRS
Lois Thompson, Federal Preservation Officer, DOE HQ

SPD EIS enclosure



November 12, 1998

Mr. Marcus Jones
SPD EIS Document Manager
Department of Energy
Washington, DC 20585

Re: Consultation for Surplus Plutonium Disposition Environmental Impact
Analysis Process
Savannah River Site, Aiken County

Dear Mr. Jones:

Thank you for providing the draft Environmental Impact Statement for the disposition of surplus plutonium.

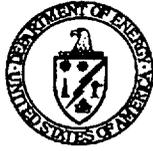
We note that Alternatives 3A and 3B, if selected, will affect the Savannah River Site. If these alternatives are selected, we further note that cultural resources survey, testing, and impact mitigation will be conducted. These measures will be conducted in accordance with the stipulations of the existing Programmatic Memorandum of Agreement for the Savannah River Site.

We look forward to further consultation if Alternatives 3A and 3B are selected. If you have questions, please don't hesitate to call me (803-896-6169) or Staff Archaeologist Bill Green (803/896-6181).

Sincerely,

Nancy Brock
Nancy Brock, Coordinator
Review and Compliance Programs
State Historic Preservation Office

Cc: Mr. Mark Brooks, Archaeological Program Manager, SRS



Department of Energy

Washington, DC 20585

October 30, 1998

Mr. Tom Berryhill, Council Member
National Council of the Muskogee Creek
P.O. Box 158
Okmulgee, OK 74447

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Mr. Berryhill:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the National Council of the Muskogee Creek may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

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Printed with soy ink on recycled paper

Mr. Tom Berryhill, Council Member
National Council of the Muskogee Creek
10/30/98
Page 2

If an alternative is selected that includes siting of surplus plutonium disposition facilities at the Savannah River Site (e.g., Alternatives 3A or 3B), a maximum of about 31 hectares (77 acres) of land adjacent to the Actinide Packaging and Storage Facility (APSF) in F-Area, would be impacted. No Native American cultural sites are known to exist within the proposed construction area.

If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149

You may also contact A. Ben Gould, Savannah River Site Indian Liaison Officer, at:
(803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrasek, EM-20, DOE/HQ

SPD EIS enclosure



Department of Energy
Washington, DC 20585

October 30, 1998

Ms. Nancy Carnley, Secretary
Ma Chis Lower Alabama Creek Indian Tribe
Route 1
708 S. John Street
New Brockton, Alabama 36351

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Ms. Carnley:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Ma Chis Lower Alabama Creek Indian Tribe may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

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Ms. Nancy Carnley, Secretary
Ma Chis Lower Alabama Creek Indian Tribe
10/30/98
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If an alternative is selected that includes siting of surplus plutonium disposition facilities at the Savannah River Site (e.g., Alternatives 3A or 3B), a maximum of about 31 hectares (77 acres) of land adjacent to the Actinide Packaging and Storage Facility (APSF) in F-Area, would be impacted. No Native American cultural sites are known to exist within the proposed construction area.

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U.S. Department of Energy
Office of Fissile Materials Disposition
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(803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrasek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy

Washington, DC 20585

October 30, 1998

Miko Tony Hill
Indian People's Muskogee Tribal Town Confederacy
P.O. Box 14
Okemah, OK 74859

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Miko Hill:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Indian People's Muskogee Tribal Town Confederacy may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

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Miko Tony Hill
Indian People's Muskogee Tribal Town Confederacy
10/30/98
Page 2

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P.O. Box 23786
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(202) 586-0149

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(803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrusek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy

Washington, DC 20585

October 30, 1998

Ms. Virginia Montoya
Pee Dee Indian Association
101 E. Tatum Avenue
McColl, South Carolina 29570

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

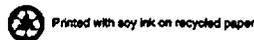
Dear Ms. Montoya:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Pee Dee Indian Association may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

The *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. DOE is producing the SPD EIS in compliance with the National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA, DOE's NEPA Implementing Regulations (10 CFR 1021), and other applicable federal and state environmental legislation.

The purpose and need for the proposed action is to reduce the threat of nuclear weapons proliferation worldwide by disposing of surplus plutonium in the United States in an environmentally safe and timely manner. The SPD Draft EIS, a copy of which is attached for your review, examines the potential environmental impacts for 24 alternatives for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion; mixed oxide (MOX) fuel fabrication; and plutonium conversion and immobilization.



Ms. Virginia Montoya
Pee Dee Indian Association
10/30/98
Page 2

If an alternative is selected that includes siting of surplus plutonium disposition facilities at the Savannah River Site (e.g., Alternatives 3A or 3B), a maximum of about 31 hectares (77 acres) of land adjacent to the Actinide Packaging and Storage Facility (APSF) in F-Area, would be impacted. No Native American cultural sites are known to exist within the proposed construction area.

If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition,
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149

You may also contact A. Ben Gould, Savannah River Site Indian Liaison Officer, at:
(803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrasek, EM-20, DQE HQ

SPD EIS enclosure



Department of Energy

Washington, DC 20585

October 30, 1998

Mr. Al Rolland, Project Director
Yuchi Tribal Organization, Inc.
P.O. Box 1990
Sapulpa, OK 74067

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Mr. Rolland:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the Yuchi Tribal Organization may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

The *Surplus Plutonium Disposition Environmental Impact Statement (SPD EIS)* is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS (DOE/EIS-0229)*, issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. DOE is producing the SPD EIS in compliance with the National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA, DOE's NEPA Implementing Regulations (10 CFR 1021), and other applicable federal and state environmental legislation.

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Mr. Al Rolland, Project Director
Yuchi Tribal Organization, Inc.
10/30/98
Page 2

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If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149.

You may also contact A. Ben Gould, Savanna River Site Indian Liaison Officer, at (803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrusek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy
Washington, DC 20585

October 30, 1998

Mr. John Ross, Chief Elect
United Keetoowah Band
2450 S. Muskogee
Tahlequah, Oklahoma 74464

Subject: Consultation for Surplus Plutonium Disposition Environmental Impact Analysis Process, Under Executive Memorandum Concerning Government-to-Government Relations with Native American Tribal Governments

Dear Mr. Ross:

The purpose of this letter is to notify you that the United States Department of Energy (DOE) is in the process of conducting an Environmental Impact Analysis concerning the disposition of surplus plutonium.

With this letter we are soliciting specific concerns the United Keetoowah Band may have about the proposal. This consultation is in accordance with the Executive Memorandum (29 April 1994) entitled, "Government-to-Government Relations with Native American Tribal Governments", and DOE Order 1230.2. It also follows prior consultation initiated for compliance with the American Indian Religious Freedom Act (AIRFA) (PL 95-341) and the Native American Graves Protection and Repatriation Act (NAGPRA) (PL 101-601).

The *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. DOE is producing the SPD EIS in compliance with the National Environmental Policy Act (NEPA) and Council on Environmental Quality regulations implementing NEPA, DOE's NEPA Implementing Regulations (10 CFR 1021), and other applicable federal and state environmental legislation.

The purpose and need for the proposed action is to reduce the threat of nuclear weapons proliferation worldwide by disposing of surplus plutonium in the United States in an environmentally safe and timely manner. The SPD Draft EIS, a copy of which is attached for your review, examines the potential environmental impacts for 24 alternatives for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion; mixed oxide (MOX) fuel fabrication; and plutonium conversion and immobilization.

Mr. John Ross, Chief Elect
United Keetoowah Band
10/30/98
Page 2

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If you have any specific concerns about the SPD EIS proposal, we would like to hear from you. Please contact me with your concerns or questions at:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
P.O. Box 23786
Washington, DC 20026-3786
(202) 586-0149

You may also contact A. Ben Gould, Savannah River Site Indian Liaison Officer, at:
(803) 725-3969.

Sincerely,

Marcus Jones
SPD EIS Document Manager

cc: A. Ben Gould, SRS
Brandt Petrusek, EM-20, DOE HQ

SPD EIS enclosure



Department of Energy

Washington, DC 20585

July 28, 1998

Mr. Roger Banks
Field Supervisor
U.S. Department of the Interior
Fish and Wildlife Service
Post Office Box 12559
217 Fort Johnson Road
Charleston, SC 29422-2559

Dear Mr. Banks:

INFORMAL CONSULTATION UNDER SECTION 7 OF THE ENDANGERED SPECIES ACT FOR SURPLUS PLUTONIUM DISPOSITION

The Department of Energy (DOE) published its Notice of Intent to prepare the *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) in the Federal Register (Vol. 92, No. 99) on May 22, 1997. This SPD EIS is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. To summarize, the purpose of the proposed action is to reduce the threat of nuclear weapons proliferation worldwide in an environmentally safe and timely manner by conducting disposition of surplus plutonium in the United States, thus setting a nonproliferation example for other nations.

The SPD Draft EIS, a copy of which is attached for your review, examines twenty-four alternatives and analyzes the potential environmental impacts for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion, mixed oxide (MOX) fuel fabrication, and plutonium conversion and immobilization. The Savannah River Site (SRS) near Aiken, South Carolina is a candidate site for all three facilities. The candidate sites and alternatives are shown in Table 2-1 of the SPD Draft EIS. Please note that where practical, the modification of existing buildings is being considered.

Alternative 3A proposes locating the three surplus plutonium disposition facilities in new construction adjacent to the Actinide Packaging and Storage Facility in F-Area at SRS. In addition, the canister receipt area at the Defense Waste Processing Facility in S-Area would be modified to accommodate the receipt and processing of the canisters from the plutonium conversion and immobilization facility. Although several alternatives include locating facilities at SRS, Alternative 3A has the greatest potential for impacts on ecological resources.

Preliminary analyses suggest that overall impacts on ecological resources from constructing and operating the proposed surplus plutonium disposition facilities would be limited because the land area required (31 hectares [77 acres]) is relatively small in comparison to regionally available habitat; habitat disturbance would be minimized because construction would take place in



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previously disturbed or developed areas; and operational impacts would be minimized because facility releases of airborne and aqueous effluents would be controlled and permitted. Section 4.26.4.3 of the SPD Draft EIS presents the ecological resources analysis for SRS.

Although sources indicate that no critical habitat for any threatened and endangered species exists at SRS, there may be Federal or State-classified special status species in the environs surrounding F-Area. These species include American alligator, bald eagle, Oconee azalea, red-cockaded woodpecker, smooth purple coneflower, and wood stork. Noise disturbance is probably the most important impact affecting local wildlife populations.

Consistent with the Endangered Species Act, DOE requests that the Fish and Wildlife Service provide any additional information on the presence of threatened and endangered animal and plant species, both listed and proposed, in the vicinity of F- and S-Areas at SRS. Information on the habitats of these species would also be appreciated. DOE also requests information on any other species of concern that are known to occur or potentially occur in the vicinity of F- and S-Areas.

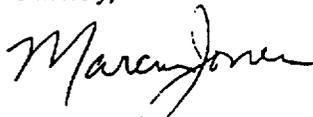
As part of DOE's National Environmental Policy Act process, DOE encourages the Fish and Wildlife Service to identify any concerns or issues it believes should be addressed in the SPD EIS. To facilitate incorporation of your input into the SPD Final EIS, please provide a written response by September 16, 1998.

Please mail your response to:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

If you have any questions, please contact me at (202) 586-0149.

Sincerely,



Marcus Jones
SPD EIS Document Manager

cc: John B. Gladden, WSRC
David P. Roberts, DOE



United States Department of the Interior

FISH AND WILDLIFE SERVICE
P.O. Box 12559
217 Fort Johnson Road
Charleston, South Carolina 29422-2559

September 8, 1998

Mr. Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

Re: FWS Log No. 4-6-98-364, Surplus Plutonium Disposition, Savannah River Site (SRS),
Aiken County, South Carolina

Dear Mr. Jones:

We have reviewed the information received August 4, 1998 concerning the above-referenced project in Aiken County, South Carolina. The following comments are provided in accordance with the Fish and Wildlife Coordination Act, as amended (16 U.S.C. 661-667e), and Section 7 of the Endangered Species Act, as amended (16 U.S.C. 1531-1543), as well as, general comments from the review of the Draft Environmental Impact Statement (DEIS).

As indicated in your August 4 letter there is potential habitat for federally protected species within the action area of your proposed project. Therefore, we are providing you with the list of the federally endangered (E) and threatened (T) species which potentially occur in Aiken South Carolina (Table 1) and the habitat information you requested (Table 2). The list also includes species of concern under review by the Service. Species of concern (SC) are not legally protected under the Endangered Species Act, and are not subject to any of its provisions, including Section 7, until they are formally proposed or listed as endangered/threatened. We are including these species in our response for the purpose of giving you advance notification. These species may be listed in the future, at which time they will be protected under the Endangered Species Act. Therefore, it would be prudent for you to consider these species early in project planning to avoid any adverse effects.

TABLE 1. SOUTH CAROLINA COUNTY DISTRIBUTION RECORDS OF ENDANGERED, THREATENED, AND CANDIDATE SPECIES FOR AIKEN COUNTY.
Updated July 18, 1999

These lists should be used only as a guideline. The lists include known occurrences and areas where the species has a high possibility of occurring. Records are updated continually and may be different from the following.

Aiken County		
Bald eagle (<i>Haliaeetus leucocephalus</i>)	T	Known
Wood stork (<i>Mycteria americana</i>)	E	Known
Red-cockaded woodpecker (<i>Picoides borealis</i>)	E	Known
Shortnose sturgeon (<i>Acipenser brevirostrum</i>)*	O	Known
Relict trillium (<i>Trillium reliquum</i>)	E	Known
Piedmont bishop-weed (<i>Ptilimnium nodosum</i>)	E	Known
Smooth coneflower (<i>Echinacea laevigata</i>)	E	Known
Rafinesque's big-eared bat (<i>Corynorhinus rafinesquii</i>)	SC	Possible
Southeastern myotis (<i>Myotis austroriparius</i>)	SC	Possible
Loggerhead shrike (<i>Lanius ludovicianus</i>)	SC	Possible
Painted bunting (<i>Passerina ciris</i>)	SC	Known
Gopher tortoise (<i>Gopherus polyphemus</i>)	SC	Known
Gopher frog (<i>Rana areolata capito</i>)	SC	Known
Aphodius tortoise commensal scarab (<i>Aphodius troglodytes</i>)	SC	Possible
Onthophagus tortoise commensal scarab (<i>Onthophagus polyphemi</i>)	SC	Possible
Georgia aster (<i>Aster georgianus</i>)	SC	Possible
Sandhills milk-vetch (<i>Astragalus michauxii</i>)	SC	Possible
Chapman's sedge (<i>Carex chapmanii</i>)	SC	Possible
Burhead (<i>Echinodorus tenellus</i> var. <i>parvulus</i>)	SC	Known
Stream-bank spider-lily (<i>Hymenocallis coronaria</i>)	SC	Known
Bog spicebush (<i>Lindera subcoriacea</i>)	SC	Known
Boykin's lobelia (<i>Lobelia boykinii</i>)	SC	Possible
Carolina birds-in-a nest (<i>Macbridea caroliniana</i>)	SC	Known
Loose watermilfoil (<i>Myriophyllum laxum</i>)	SC	Known
Pickering's morning-glory (<i>Stylisma pickeringii</i>)	SC	Known
Meadow rue (<i>Thalictrum subrotundum</i>)	SC	Known
American sandfiltering mayfly (<i>Dolania americana</i>)		SC
Arogos Skipper (<i>Atrytone Arogos Arogos</i>)	SC	Known

E=Endangered; T=Threatened; SC=Service has on file limited evidence to support proposals for listing these species; O=Contact National Marine Fisheries Service.

TABLE 2. HABITAT, FRUITING/FLOWERING PERIOD & COUNTY OCCURRENCES

Scientific Name	Common Name	Federal Status
<i>Haliaeetus leucocephalus</i>	Bald eagle	E
Associated with coasts, rivers, lakes, usually nesting near bodies of water where it feeds. Aiken, Barnwell, Beaufort, Berkeley, Calhoun, Charleston, Chesterfield, Clarendon, Colleton, Dorchester, Fairfield, Georgetown, Jasper, Kershaw, Lexington, Marion, McCormick, Newberry, Oconee, Orangeburg, Pickens, Richland, Sumter, Williamsburg.		
<i>Mycteria americana</i>	Wood stork	E
Freshwater and brackish wetlands, primarily nesting in cypress or mangrove swamps. Feeding in freshwater marshes, flooded pastures, flooded ditches. Aiken, Allendale, Barnwell, Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper, Marion, Williamsburg.		
<i>Picoides borealis</i>	Red-cockaded woodpecker	E
Open stands of pines 60+ years old provide roosting/nesting habitat. Foraging habitat is pine and pine/hardwood stands 30+ year old. Aiken, Allendale, Bamberg, Barnwell, Beaufort, Berkeley, Calhoun, Charleston, Chesterfield, Clarendon, Colleton, Darlington, Dillon, Dorchester, Edgefield, Florence, Georgetown, Hampton, Horry, Jasper, Kershaw, Laurens, Lee, Lexington, Marion, Marlboro, McCormick, Orangeburg, Richland, Saluda, Sumter, Williamsburg.		
<i>Alligator mississippiensis</i>	American alligator	T(S/A)
Rivers systems, canals, lakes, swamps.		
<i>Echinacea laevigata</i>	Smooth coneflower	E
Piedmont- mountains. Basic or circumneutral soils (Hayesville, Cecil, Porter, Madison) of meadows and woodlands. Successful colonies are almost always at sites featuring open, bare soil, a fairly high soil pH, and exposures allowing optimal sunshines. Late May-July. Aiken, Allendale, Anderson, Barnwell, Lancaster, Lexington, Oconee, Pickens, Richland.		

From review of the DEIS for this project, it does not appear that the proposed siting or construction of the proposed facilities represent a substantial risk to federally listed or proposed endangered or threatened plant or animal species. In view of this, we believe that the requirements of Section 7 of the Endangered Species Act have been satisfied. However, obligations under Section 7 of the Act must be reconsidered if (1) new information reveals

impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered, (2) this action is subsequently modified in a manner which was not considered in this assessment, or (3) a new species is listed or critical habitat determined that may be affected by the identified action.

In addition, the operation of these facilities and the subsequent disposition of large quantities of immobilized plutonium in geologic repositories at the SRS, may impact the future quality of the environment at the site. The DEIS does not fully address the issues associated with geological disposition and therefore they are not a part of this consultation. Once the issue of disposition in geologic repositories is addressed we would be glad to consult with DOE and provide any information necessary for the assessment of potential impacts to the environment.

Also, the DEIS does not present an adequate analysis of potential environmental impacts to the non-human environment. While human health is considered throughout the document, ecological health is rarely discussed. This presumably occurred due to the assumption that environmental receptors are not present within the action area. This assumption does suggest that substantial environmental impacts are improbable in the action area, but does not justify the exclusion of this analysis as a part of the environmental impact assessment. We suggest that the final Environmental Impact Statement (EIS) reflect that appropriate consideration was given not only to the human environment, but the ecological environment as well.

Your interest in ensuring the protection of endangered and threatened species and our nation's valuable wetland resources is appreciated. We hope this letter and the accompanying information on endangered and threatened species will be useful in project development. If you require further assistance please contact Mr. Rusty Jeffers of my staff at (803) 727-4707 ext. 20. In future correspondence concerning the project, please reference FWS Log No. 4-6-98-364.

Sincerely yours,


Edwin M. EuDaly
Acting Field Supervisor

EME/RDJ/km



Department of Energy

Washington, DC 20585

July 28, 1998

Mr. Tom Murphy
South Carolina Department of Natural Resources
Lower Coastal Wildlife Diversity
585 Donnelley Drive
Green Pond, SC 29446

Dear Mr. Murphy:

The Department of Energy (DOE) published its Notice of Intent to prepare the *Surplus Plutonium Disposition Environmental Impact Statement* (SPD EIS) in the Federal Register (Vol. 92, No. 99) on May 22, 1997. This SPD EIS is tiered from the *Storage and Disposition of Weapons-Usable Fissile Materials Programmatic EIS* (DOE/EIS-0229), issued in December 1996, and the associated Record of Decision (62 FR 3014), issued on January 14, 1997. To summarize, the purpose of the proposed action is to reduce the threat of nuclear weapons proliferation worldwide in an environmentally safe and timely manner by conducting disposition of surplus plutonium in the United States, thus setting a nonproliferation example for other nations.

The SPD Draft EIS, a copy of which is attached for your review, examines twenty-four alternatives and analyzes the potential environmental impacts for the proposed siting, construction, and operation of three types of facilities: pit disassembly and conversion, mixed oxide (MOX) fuel fabrication, and plutonium conversion and immobilization. The Savannah River Site (SRS) near Aiken, South Carolina is a candidate site for all three facilities. The candidate sites and alternatives are shown in Table 2-1 of the SPD Draft EIS. Please note that where practical, the modification of existing buildings is being considered.

Alternative 3A proposes locating the three surplus plutonium disposition facilities in new construction adjacent to the Actinide Packaging and Storage Facility in F-Area at SRS. In addition, the canister receipt area at the Defense Waste Processing Facility in S-Area would be modified to accommodate the receipt and processing of the canisters from the plutonium conversion and immobilization facility. Although several alternatives include locating facilities at SRS, Alternative 3A has the greatest potential for impacts on ecological resources.

Preliminary analyses suggest that overall impacts on ecological resources from constructing and operating the proposed surplus plutonium disposition facilities would be limited because the land area required (31 hectares [77 acres]) is relatively small in comparison to regionally available habitat; habitat disturbance would be minimized because construction would take place in previously disturbed or developed areas; and operational impacts would be minimized because facility releases of airborne and aqueous effluents would be controlled and permitted. Section 4.26.4.3 of the SPD Draft EIS presents the ecological resources analysis for SRS.



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As part of DOE's National Environmental Policy Act process, DOE encourages the South Carolina Department of Natural Resources to identify any concerns or issues it believes should be addressed in the SPD EIS. To facilitate incorporation of your input into the SPD Final EIS, please provide a written response by September 16, 1998.

Please mail your response to:

Marcus Jones
SPD EIS Document Manager
U.S. Department of Energy
Office of Fissile Materials Disposition
1000 Independence Avenue, SW
Washington, DC 20585

If you have any questions, please contact me at (202) 586-0149.

Sincerely,



Marcus Jones
SPD EIS Document Manager

cc: John B. Gladden, WSRC
David P. Roberts, DOE

Appendix P
Environmental Synopsis

**ENVIRONMENTAL SYNOPSIS
OF INFORMATION PROVIDED IN RESPONSE TO
THE REQUEST FOR PROPOSALS FOR
MOX FUEL FABRICATION AND REACTOR IRRADIATION SERVICES**

April 1999

1.0 INTRODUCTION

In the aftermath of the Cold War, significant quantities of weapons-usable fissile materials (primarily plutonium and highly enriched uranium) have become surplus to national defense needs both in the United States and Russia. President Clinton announced, on September 27, 1993, the establishment of a framework for United States efforts to prevent the proliferation of weapons of mass destruction. As key elements of the President's policy, the United States will:

- X Seek to eliminate, where possible, accumulation of stockpiles of highly enriched uranium and plutonium,
- X Ensure that where these materials already exist, they are subject to the highest standards of safety, security, and international accountability, and
- X Initiate a comprehensive review of long-term options for plutonium disposition, taking into account technical, nonproliferation, environmental, budgetary, and economic considerations.

In January 1994, President Clinton and Russian President Yeltsin agreed that the proliferation of weapons of mass destruction and their delivery systems represent an acute threat to international security. They declared that both Nations would cooperate actively and closely with each other, and also with other interested nations, for the purpose of preventing and reducing this threat.

The Secretary of Energy and the Congress took action in October 1994 to create a permanent Office of Fissile Materials Disposition (MD) within the Department of Energy (DOE) to focus on the important national security objective of eliminating surplus weapons-usable fissile materials. As one of its major responsibilities, MD is tasked with determining how to disposition surplus weapons-usable plutonium. In January 1997, DOE issued a Record of Decision (ROD) for the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic Environmental Impact Statement (S&D PEIS)*¹. In that decision document, DOE decided to pursue a strategy that would allow for the possibility of both the immobilization of surplus plutonium and the use of surplus plutonium as mixed oxide (MOX) fuel in existing domestic, commercial reactors. In July, 1998, DOE issued the *Draft Surplus Plutonium Disposition Environmental Impact Statement (SPD Draft EIS)*² which analyzes sites for plutonium disposition activities and plutonium disposition technologies to support this strategy.

To support the timely undertaking of the surplus plutonium disposition program, DOE initiated a procurement action to contract for fuel fabrication and reactor irradiation services. On May 19, 1998, DOE issued a Request for Proposals (RFP) for these services (Solicitation Number DE-RP02-

¹ DOE/EIS-0229; December 1996

² DOE/EIS-0283D; July 1998

98CH10888). The services requested in this procurement process include design, licensing, construction, operation, and eventual decontamination and decommissioning of a MOX facility as well as irradiation of the MOX fuel in existing domestic, commercial reactors should the decision be made by DOE in the SPD EIS ROD to go forward with the MOX program.

In accordance with DOE's National Environmental Policy Act (NEPA) regulations (10 CFR 1021.216), DOE required offerors to submit reasonably available environmental data and analyses as a part of their proposals. DOE independently evaluated and verified the accuracy of the data provided by the offeror in the competitive range, and prepared and considered an Environmental Critique before the procurement selection was made.

As required by Section 216, the Environmental Critique included a discussion of the purpose of the procurement; the salient characteristics of the offeror's proposal; any licenses, permits or approvals needed to support the program; and an evaluation of the potential environmental impacts of the offer. In March 1999, after considering the Environmental Critique, DOE awarded a contract for MOX fuel fabrication and reactor irradiation services. Under this contract, MOX fuel would be fabricated at a DOE site to be selected in the SPD EIS ROD and then irradiated in six domestic commercial nuclear reactors at three commercial reactor sites. Additionally, under the contract only limited activities may be performed prior to issuance of the SPD EIS ROD. These activities include non-site-specific work primarily associated with the development of the initial conceptual design for the fuel fabrication facility, and plans (paper studies) for outreach, long lead-time procurements, regulatory management, facility quality assurance, safeguards, security, fuel qualifications, and deactivation. There would be no construction started on a MOX fuel fabrication facility until the SPD EIS ROD is issued. The MOX facility, if built, would be government-owned, licensed by the Nuclear Regulatory Commission (NRC), and located at one of four candidate DOE sites.

This Synopsis is based on the Environmental Critique and provides a publicly available assessment of the potential environmental impacts associated with the proposal based on an independent review of the representations and data contained in the proposal. The Synopsis serves as a record that DOE has considered the environmental factors and potential consequences of the reasonable alternatives analyzed during the selection process. The Synopsis will be filed with the U.S. Environmental Protection Agency and made publicly available. The Synopsis will also be incorporated into a Supplement to the SPD Draft EIS, which is to be issued in the near future.

2.0 ASSESSMENT METHODS

The analyses in this Synopsis (and in the Environmental Critique) were performed using information submitted by the offeror in the competitive range, independently developed information, publicly available information, and standard computer models and techniques.

In order to evaluate the reasonableness of the offeror's projected environmental impacts compared to those projected by DOE, the offeror's data for the MOX facility was compared to information in the SPD Draft EIS; for the use of MOX fuel in domestic commercial reactors, the offeror's data was compared to

information in the S&D PEIS.³

Data developed independently to support these analyses include the projection of populations around the proposed reactor sites⁴ and information related to the topography surrounding the proposed reactor sites for evaluating air dispersal patterns. Information was also provided by Oak Ridge National Laboratory (ORNL) on the expected ratio of radionuclide activities in MOX fuel compared to that in low enriched uranium (LEU) fuel for use in reactor accident analyses. Standard models for determining radiation doses from normal operations and accident scenarios, and air pollutant concentrations at the proposed disposition facility sites and reactors were run using data provided by the offeror. Reactor accident analyses assumed a 40 percent MOX core because this is a conservative estimate of the amount of MOX fuel that would be used in each of the reactors. The environmental analyses were prepared using the following computer models: GENII for estimating radiation doses to the public from normal operation of the MOX fuel fabrication facility and the proposed reactors; MACCS2 for design-basis and beyond-design-basis accident analyses at the proposed reactors; and ISC3 and SCREEN3 for estimated air pollutant concentrations as a result of normal MOX facility and reactor operations.

3.0 DESCRIPTION OF THE OFFER

The offeror has proposed to build a MOX facility on a DOE site⁵ with subsequent irradiation services being provided in six existing reactors at three commercial nuclear power plants in the Eastern United States.

The proposed MOX facility design, which is based on an existing MOX facility in France, will be modified to meet U.S. regulations. Under the proposed design, plutonium dioxide powder would be received from DOE's proposed pit disassembly and conversion facility. The plutonium dioxide would be aqueously processed (polished) to ensure that it meets the agreed-to fuel specification for MOX fuel. Following the polishing step, the plutonium in solution would then be converted back into plutonium dioxide. At that point, the process proposed by the offeror would be similar to that described in Chapter 2 of the SPD Draft EIS⁶. The plutonium dioxide would be mixed with uranium dioxide and formed into MOX fuel pellets.

³ Such information is also summarized in the SPD Draft EIS.

⁴ Population projections for the area encompassed in a 50-mile radius around the proposed reactor sites were projected to 2015 to approximate the mid-point of the irradiation services program. By 2015, the MOX program would be firmly established at all of the proposed reactor sites and would be expected to remain stable through the end of the program. Using 1990 census data as the base year and state-provided population increase factors for all counties included in this analysis, the population around the sites was projected for 2015. Baseline projections were needed for two of the reactor sites because the population information provided in the proposal was based on 1970 census data. Recent (i.e., 1990) census data were provided for the other proposed site and projected by the offeror to the years 2010 and 2020. From these data points, 2015 projections were interpolated.

⁵ This site would be selected in the SPD EIS ROD. As explained in the SPD Draft EIS, DOE's preference is to locate the MOX fuel fabrication plant at DOE's Savannah River site.

⁶ The SPD Draft EIS also included evaluation of an aqueous processing facility in Appendix N, that could be added to either the pit conversion or the MOX facility. Based on public comments received and information presented by the offeror subsequent to the release of the SPD Draft EIS, DOE is now considering whether to add the aqueous polishing process to the front end of the MOX facility. The environmental impacts associated with this option will be presented in Chapter 4 of the SPD Final EIS.

These pellets would be baked at high temperature, ground to exact dimensions, then loaded into fuel rods. The MOX fuel rods would then be bundled with standard LEU fuel rods to form MOX fuel assemblies. The MOX fuel assemblies would be shipped to the proposed reactor sites in DOE-provided safe, secure transport vehicles on a near just-in-time basis to minimize the amount of time the fresh MOX fuel would be stored at a reactor site prior to loading into the reactor.

Three sites, each with two operating pressurized light water reactors (PWRs), have been proposed for MOX fuel irradiation. The proposed sites are: the Catawba nuclear generation station near York, South Carolina; the McGuire nuclear generation station near Huntersville, North Carolina; and the North Anna nuclear generation station near Mineral, Virginia. All of these sites have been operating safely for a number of years. Table 1 provides some general information about each of the proposed plants.

Table 1. Reactor Plant Operating Information

Plant	Operator	Capacity (net MWe)	Date of First Operation (mo/yr)
Catawba No. 1	Duke Power Co.	1,129	01/85
Catawba No. 2	Duke Power Co.	1,129	05/86
McGuire No. 1	Duke Power Co.	1,129	07/81
McGuire No. 2	Duke Power Co.	1,129	05/83
North Anna No. 1	Virginia Power Co.	900	04/78
North Anna No. 2	Virginia Power Co.	887	08/80

Table 2 shows the results of the most recent Systematic Assessment of Licensee Performance performed by NRC for each of the proposed reactors. As can be seen in this table, all the proposed reactors have been operated and maintained in a safe manner.

Table 2. Systematic Assessment of Licensee Performance Results

	Catawba	McGuire	North Anna
Date of Latest SALP	06/97	04/97	02/97
Operations	Superior	Superior	Superior
Maintenance	Good	Good	Superior
Engineering	Superior	Good	Good
Plant Support	Superior	Superior	Superior

As proposed by the offeror, both MOX and LEU fuel assemblies would be loaded into the reactor. The MOX fuel assemblies are scheduled to remain in the core for two 18-month cycles and the LEU assemblies for either two or three cycles. After completing a normal (full) fuel cycle, the spent MOX fuel assemblies would be removed from the reactor in accordance with the plant's standard refueling procedures and placed in the plant's spent fuel pool for cooling along with other spent fuel. The offeror has stated that no changes are expected in the plant's spent fuel storage plans to accommodate the spent MOX fuel. Eventually, the fuel would be shipped to a potential geologic repository to be developed by DOE for permanent disposal of commercial spent fuel.

4.0 ENVIRONMENTAL IMPACTS

Human health risk, waste management, land use, infrastructure requirements, accidents, air quality, water quality, and socioeconomics have been evaluated in this Synopsis. Cultural, paleontological and ecological resources, and transportation requirements are not expected to be impacted other than as discussed in the SPD Draft EIS and were not evaluated in this Synopsis. Although four sites are being considered by DOE for the proposed MOX facility, this Environmental Synopsis focuses primarily on environmental impacts at DOE's Savannah River Site (SRS) for the potential MOX facility because, as stated in Section 1.6 of the SPD Draft EIS, it is DOE's preferred location for the MOX facility. However, this Synopsis also discusses non-radiological impacts at other potential MOX facility sites, where appropriate. Unless otherwise noted, impacts would likely be similar at other sites.

4.1 MOX Fuel Fabrication Facility

4.1.1 Human Health Risk

The annual radiological dose from normal operations to the general population residing within 50 miles of the proposed MOX facility at the preferred site, SRS, was calculated based on radiological emissions estimated by the offeror. The major contributor to this dose would be attributable to the offeror's estimated annual release of 0.25 mg of plutonium.⁷ In contrast to the "atmospheric release only" assumption presented in the SPD Draft EIS, the MOX facility data provided by the offeror includes both liquid and airborne releases because the proposed process includes some aqueous processing. Table 3 shows the projected radiological dose that would be received by the general population as a result of normal operations of the MOX facility proposed by the offeror.

The average individual living within 50 miles of the SRS site would be expected to receive an annual dose of 2.3×10^{-4} mrem/yr from normal operation of the MOX facility. The maximally exposed individual (MEI) would be expected to receive an annual dose of 3.7×10^{-3} mrem/yr from operation of the MOX facility at SRS. This dose is well below regulatory limits, which require doses resulting from DOE operations to be below 10 mrem/yr from airborne pathways, 4 mrem/yr from drinking water pathways, and 100 mrem/yr from all pathways combined. The additional dose to the general population would also be small in comparison with the average dose received from other SRS activities. For example, in 1997, the average individual living within 50 miles of SRS received a dose of 1.4×10^{-2} mrem/yr from site activities. (SPD Draft EIS, pg. 3-141)

⁷The isotopic distribution of the potential plutonium releases were modeled based on the isotopic distribution developed by Los Alamos National Laboratory for use in the SPD Draft EIS.

Table 3. Estimated Radiological Impacts on the Public from Operations of the MOX Facility at SRS

	Maximally Exposed Ind. (mrem/yr)	Latent Fatal Cancer Risk from 10 Year Operating Life	Est. Dose to Pop. within 50 mi. radius (person-rem/yr)	Latent Fatal Cancers from 10 Year Operating Life	Avg. Dose to Ind. within 50 mi. radius (mrem/yr)	Latent Fatal Cancer Risk from 10 Year Operating Life
Offeror	3.7×10^{-3}	1.9×10^{-8}	0.181	9.1×10^{-4}	2.3×10^{-4}	1.2×10^{-9}
SPD Draft EIS*	3.1×10^{-4}	1.6×10^{-9}	0.029	1.5×10^{-4}	3.7×10^{-5}	1.9×10^{-10}
SRS Base**	0.2	1.0×10^{-6}	8.6	4.3×10^{-2}	1.4×10^{-2}	7.0×10^{-8}

* Includes contributions from polishing process discussed in Appendix N in addition to those shown in Chapter 4.

** SPD Draft EIS pg. 3-141

Table 4 shows the potential radiological impacts on involved workers at the proposed MOX facility conservatively calculated from 1997 data from the offeror's European operating facility. As shown in Table 4, the average radiation worker at the offeror's proposed MOX facility would receive an annual dose of 65 mrem/yr from normal operations. The offeror has stated that in 1997 the maximum dose to an individual worker at the offeror's MOX facility was 885 mrem, well below the DOE administrative control level of 2,000 mrem/yr and the Federal regulatory limit of 5,000 mrem/yr. The offeror also estimates that fewer radiation workers would be needed to operate the MOX facility than indicated in the SPD Draft EIS. The offeror estimates that approximately 330 radiation workers would be required, rather than the 410 estimated in the SPD Draft EIS.⁸

Table 4. Potential Radiological Impacts on Involved Workers from Operations of the MOX Facility

	No. of Radiation Workers	Average Worker Dose (mrem/yr)	Latent Fatal Cancer Risk from 10 Years of Operation	Total Dose to Workers (person-rem/yr)	Latent Fatal Cancers from 10 Years of Operations
Offeror	330	65	2.6×10^{-4}	22	0.088
SPD Draft EIS*	410	500	2.0×10^{-3}	205	0.82
SRS Base**	12,500	19	7.6×10^{-5}	237	0.95

* Includes contributions from polishing process discussed in Appendix N in addition to the doses shown in Chapter 4.

** SPD Draft EIS pg. 3-142.

4.1.2 Accidents

Design-basis and beyond-design-basis accidents were evaluated in the SPD Draft EIS for the MOX facility and the aqueous plutonium polishing process. Accidents evaluated for the MOX facility included a criticality, fires, and earthquakes. A spill, an uncontrolled reaction resulting in an explosion, a criticality, and an earthquake were evaluated for the plutonium polishing process. Any of these accidents could occur

⁸ Although it is estimated that about 385 personnel would be required to operate the facility, only about 330 of the 385 would be considered radiation workers.

in the proposed MOX facility since it would use similar processes.

Including the plutonium polishing process in the MOX facility as proposed by the offeror would make a criticality the bounding design-basis accident for the facility. As shown in Table 5, no major radiological impacts to the general population would be expected from design-basis accidents at the proposed MOX facility. The frequency of this accident, a criticality in solution, is estimated to be between 1 in 10,000 and 1 in 1,000,000 per year.

The bounding beyond-design-basis accident would be an earthquake of sufficient magnitude to collapse the MOX facility. An earthquake of this magnitude would be expected to result in major radiological impacts. However, an earthquake of this magnitude would also be expected to result in widespread damage across the site and throughout the surrounding area. The frequency of an earthquake of this magnitude is estimated to be between 1 in 100,000 and 1 in 10,000,000 per year. Table 5 shows the impact of this accident on SRS. At the other candidate sites, the estimated dose to the general population from this accident would range from $2.0H10^3$ to $5.7H10^4$ with the corresponding number of LCFs expected to range from 1.0 to 28 LCFs. The maximum dose to a person at the site boundary at the time of the accident would be expected to range from 16 to 25 rem with a corresponding risk of latent cancer fatality of $8.0H10^{-3}$ to $1.2H10^{-2}$. A noninvolved worker would be exposed to a dose in the range of $2.2H10^2$ to $6.4H10^2$ rem with a corresponding risk of latent cancer fatality of $8.8H10^{-2}$ to $2.3H10^{-1}$.

Table 5. Bounding Accidents for the Proposed MOX Facility

	Noninvolved Worker (rem)	Probability of Cancer Fatality per Accident	Estimated Dose at Site Boundary (rem)	Probability of Cancer Fatality per Accident	Estimated Dose to Pop. Within 50 mi. radius (person-rem)	Latent Cancer Fatalities per Accident
Criticality at SRS*	3.0×10^{-1}	1.2×10^{-4}	1.6×10^{-2}	8.0×10^{-6}	1.6×10^1	8.0×10^{-3}
Beyond-design-basis earthquake**	2.2×10^2	8.8×10^{-2}	8.9	4.5×10^{-3}	2.1×10^4	10.6

*SPD Draft EIS pg. N-15

**SPD Draft EIS pgs. K-50 and N-15

No major consequences for the maximally exposed involved worker would be expected from leaks, spills, and smaller fires. These accidents are such that involved workers would be able to evacuate immediately or would not be affected by the events. However, explosions could result in immediate injuries from flying debris, as well as the uptake of plutonium and uranium particulates through inhalation. If a criticality were to occur, workers within tens of meters could receive very high to fatal radiation exposures from the initial neutron burst. The dose would strongly depend on the magnitude of the criticality (number of fissions), the distance from the criticality, and the amount of shielding provided by the structures and equipment between the workers and the criticality. Earthquakes could also result in substantial consequences to workers, ranging from workers being killed by collapsing equipment and structures to high radiation exposures and uptakes of radionuclides. For all but the most severe accidents, immediate emergency response actions should reduce the magnitude of the consequences to workers near the accident.

4.1.3 Waste Management

The MOX facility would be expected to produce TRU waste, low-level radioactive waste (LLW), mixed LLW, hazardous waste and sanitary waste in the course of its normal operations. As shown in Table 6, the offeror's estimated generation rates for radioactive wastes are consistent with those estimated in the SPD Draft EIS. None of these estimates is expected to impact the proposed sites in terms of their ability to handle these wastes. The ability to store, treat, and/or dispose of radioactive waste is limited at Pantex. If Pantex were chosen as the site for the MOX facility, the wastes would presumably be handled as discussed in the SPD Draft EIS. TRU waste would have to be stored in the MOX facility until it could be shipped to the Waste Isolation Pilot Plant (WIPP) for permanent disposal. Mixed LLW would be handled in the same manner as current mixed waste that is shipped offsite for treatment and disposal. LLW would be treated and stored onsite until shipped to the Nevada Test Site or a commercial facility for disposal.⁹

Table 6. Estimated Annual Waste Generation Rates

	TRU Waste	Mixed LLW	LLW	Hazardous Waste	Sanitary Waste
Offeror					
Liquid (l/yr)	500	0	300	1,200	11 million
Solid (m ³ /yr)	~67	3	94	0.1	150
SPD Draft EIS*					
Liquid (l/yr)	0.5	0.11	0.3	1,740	18 million
Solid (m ³ /yr)	~67	3	94	1.2	440
SRS Generation Rate**					
Liquid (l/yr)	na	na	na	Na	416 million
Solid (m ³ /yr)	431	1,135	10,043	74	6,670

na – not available

*Includes contributions from the polishing process discussed in Appendix N of the SPD Draft EIS, in addition to the wastes shown in Chapter 4.

**SPD Draft EIS pg. 3-130.

4.1.4 Land Use

It is estimated that a total of 6.2 hectares (15.3 acres) would be needed for the MOX facility. This estimate includes 1.0 hectares (2.5 acres) for the process building, 0.2 hectares (0.58 acres) for support facilities, and 5 hectares (12.4 acres) for parking and a security buffer. This is very close to the 6.0 hectares (14.9 acres) estimated in the SPD Draft EIS (pg. E-10). As indicated in the SPD Draft EIS, there is sufficient space available to accommodate the proposed MOX facility at any of the candidate sites.

⁹ DOE would ensure that any such disposal would be consistent with the RODs for the *Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste*, DOE/EIS-0200F, May 1997.

4.1.5 Infrastructure Requirements

The proposed MOX facility would use electricity, natural gas, water, and fuel oil. As shown in Table 7, the offeror's proposed facility would use more of these materials than estimated in the SPD Draft EIS.

Table 7. Estimated MOX Facility Infrastructure Requirements

	Electricity (MWh/yr)	Natural Gas (m ³ /yr)	Water (10 ⁶ l/yr)	Fuel Oil (l/yr)
Offeror	30,000	1,070,000	68	63,000
SPD Draft EIS*	17,520	920,000	44	43,000
SRS F-Area Available Capacity**	482,700	na***	1,216	na****

*Includes contributions from the polishing process as discussed in Appendix N in addition to the infrastructure requirements shown in Chapter 4.

**SPD Draft EIS pg. 3-165.

***Heat in F-Area provided by steam.

****Fuel oil trucked in as needed and stored at MOX facility.

4.1.5 Air Quality

Operation of the proposed MOX facility would result in the release of a small amount of nonradiological air pollutants that would be expected to slightly increase the ambient air pollutant concentrations at the selected site. The majority of these pollutants would be associated with routine maintenance and testing runs of the facility's emergency diesel generator and emissions from facility heating. Table 8 shows the estimated increases in ambient air pollutant concentrations for the proposed facility and the national standards for these pollutants. The projected emissions are a very small fraction of the national standards. Although some small radionuclide discharges are expected from the proposed MOX facility, these discharges are not expected to have a major impact on air quality. As explained in Section 4.1.1, these discharges would result in a very small dose to the general public.

Table 8. Estimated Nonradiological Ambient Air Pollutant Concentrations from the Proposed MOX Facility

	Carbon Monoxide 8 hour 1 hour	Nitrogen Dioxide Annual	PM ₁₀ Annual 24 hour	Sulfur Dioxide Annual 24 hour 3 hour
National Ambient Air Quality Standards ($\mu\text{g}/\text{m}^3$)	10,000 40,000	100	50 150	80 365 1,300
Offeror ($\mu\text{g}/\text{m}^3$)	0.123 0.371	0.011	0.001 0.011	0.039 0.531 1.39
SPD Draft EIS* ($\mu\text{g}/\text{m}^3$)	0.109 0.345	0.011	0.001 0.010	0.031 0.420 1.11
SRS Base** ($\mu\text{g}/\text{m}^3$)	64 279	9.3	4.14 56.4	15.1 219 962

*Includes contributions from the polishing process discussed in Appendix N in addition to the pollutant concentrations shown in Chapter 4.

**SPD Draft EIS pg. 4-6

4.1.6 Water Quality

Table 9 shows a comparison of water resources information described in the SPD Draft EIS to that provided by the offeror. Although the proposed water use is higher than that analyzed in the SPD Draft EIS, the amount of water needed is estimated to be from 0.9 to 6.0 percent of the site's estimated annual water requirements. Therefore, the additional water use is not expected to have a major impact on water resources. Although some small radionuclide discharges are expected from the proposed MOX facility, these discharges are not expected to have a major impact on water quality. As explained in Section 4.1.1, these discharges would result in a very small dose to the general public.

Table 9. Comparison of Water Resources Information for the MOX Facility

	Water Use (10 ⁶ liters/yr)	Sanitary Wastewater Discharged (10 ⁶ liters/yr)	Radionuclide Emissions to Water (Ci)
SPD Draft EIS	44	18	0
Offeror	68	11	0.0025

4.1.7 Socioeconomics

The proposed MOX facility would employ about 385 workers, somewhat fewer than the 435 workers estimated in the SPD Draft EIS. An increase of 385 workers would not be expected to have a major impact on any of the candidate sites. At three of the four candidate sites (i.e., INEEL, Pantex, and SRS), the workforce is projected to be falling at the same time the proposed MOX facility would begin operations. The additional MOX facility workers would help mitigate the negative socioeconomic impacts

associated with such reductions. The SPD Draft EIS concluded that, at Hanford, although the increase in workforce requirements for proposed surplus plutonium disposition facilities (including MOX) would coincide with an increase in the site's overall workforce (as a result of the planned tank waste remediation system), the projected changes would not have a major impact on the level of community services currently offered in the region of influence. (SPD Draft EIS pg. 4-37)

4.2 Proposed Reactor Sites

The offeror is proposing to use a partial MOX core (up to approximately 40 percent of the fuel in the core at equilibrium) in each of the proposed reactors. The S&D PEIS analyzed a full MOX core at a generic reactor site.

4.2.1 Human Health Risk

Risk to human health was assessed for the proposed reactor sites based on information provided by the offeror and compared to the generic reactor information in the S&D PEIS. The offeror stated that there would be no difference in dose to the general public from normal operations based on the use of MOX fuel versus LEU fuel in the proposed reactors. This is consistent with findings in the S&D PEIS that showed a very small range in the expected difference (-1.1×10^{-2} to 2×10^{-2} person-rem, S&D PEIS pg. 4-729). The doses shown in this section reflect the projected dose in the year 2015.

The annual radiological dose from normal operations to the general population residing within 50 miles of the proposed reactor sites was estimated based on radiological emissions estimated by the offeror. As shown in Table 10, the average individual living within 50 miles of one of the proposed reactor sites could expect to receive an annual dose of between 2.7×10^{-3} to 9.9×10^{-3} mrem/yr from normal operation of these reactors regardless of whether the reactors were using MOX fuel or LEU fuel.

Table 10. Estimated Dose to the General Population from Normal Operations of the Proposed Reactors in the Year 2015 (Partial MOX or LEU Core)

	Maximally Exposed Individual (mrem/yr)	Latent Fatal Cancer Risk	Est. Dose to Pop. within 50 mi. radius (person-rem/yr)	Annual Number of Latent Cancer Fatalities	Avg. Dose to Ind. within 50 mi. radius (mrem/yr)
Catawba ^a	0.73	3.7×10^{-7}	6.1	3.1×10^{-3}	2.7×10^{-3}
McGuire ^b	0.31	1.6×10^{-7}	10.7	5.4×10^{-3}	4.2×10^{-3}
North Anna ^c	0.37	1.9×10^{-7}	20.3	1.0×10^{-2}	9.9×10^{-3}
S&D PEIS (high)*	0.17	8.5×10^{-8}	2.0	1.0×10^{-3}	7.8×10^{-4}

*S&D PEIS pg. 4-729

^a The population for the year 2015 is estimated to be 2,265,000.

^b The population for the year 2015 is estimated to be 2,575,000.

^c The population for the year 2015 is estimated to be 2,042,000.

The offeror also stated that the workers at the proposed reactor sites would be expected to receive about the same amount of radiation dose as a result of their job activities regardless of the plant's decision to use

MOX fuel. As shown in Table 11, the average radiation worker at the proposed reactor sites could expect to receive an annual dose of between 46 and 123 mrem/yr from normal operations. This is lower than the worker dose range estimated in the S&D PEIS (281 to 543 mrem/yr). The offeror's statement that the use of MOX fuel would not change the estimated worker dose is consistent with data presented in the S&D PEIS that showed an incremental increase in worker dose of less than 0.1 percent due to the use of MOX fuel. (S&D PEIS pg. 4-730)

Table 11. Estimated Dose to Workers from Normal Operations of the Proposed Reactors with MOX Fuel

	No. of Radiation Workers*	Total Dose to Workers (person-rem/year)	Annual Number of Latent Cancer Fatalities	Average Worker Dose (mrem/yr)	Annual Latent Fatal Cancer Risk
Catawba	3,400	265	0.11	78	3.1×10^{-5}
McGuire	4,000	492	0.20	123	4.9×10^{-5}
North Anna	2,240	103	0.041	46	1.8×10^{-5}
S&D PEIS (high)**	2,220	1,204	0.48	543	2.2×10^{-4}

*The number of radiation workers at the proposed reactor sites was estimated based on the total dose to workers given by the offeror divided by the average worker dose, also supplied by the offeror.

**S&D PEIS pg. 4-730; adjusted to reflect a two reactor site for comparison to the proposed reactor sites.

4.2.2 Accidents

Two design-basis accidents, a large break loss-of-coolant accident (LOCA) and a fuel handling accident (FHA), were evaluated for the Environmental Critique and are reflected in this Synopsis. These accidents were chosen because they are the limiting reactor and non-reactor design-basis accidents at the proposed facilities. As shown in Tables 12 through 14, only small increases in the estimated impacts would be expected from a LOCA at the proposed reactor sites due to the use of MOX fuel. In a FHA, the consequences (defined as latent cancer fatalities) would decrease as a result of using MOX fuel rather than LEU fuel. This is because the end-of-cycle krypton inventory is less in MOX fuel than in LEU fuel and krypton is one of the greatest contributors to radiation dose from a FHA.

Beyond-design-basis accidents, if they were to occur, would be expected to result in major impacts to workers, the surrounding communities, and the environment regardless of whether the reactor was using a LEU or a partial MOX core. As shown in Tables 15 through 17, the probability of a beyond-design-basis accident happening and the risk to an individual living within 50 miles of the proposed reactors is very low.

The largest estimated risk of a latent cancer fatality for the maximally exposed individual (MEI) at any of the proposed reactors is estimated to be 2.86×10^{-5} for a steam generator tube rupture at one of the North Anna reactors when using a partial MOX core. If this same accident were to happen at the reactor when it was using a LEU core, the estimated risk would be 2.46×10^{-5} . In either case, the risk of a latent cancer fatality is estimated to be less than 3 in 100,000 over the 16 year period the reactors would be using MOX fuel.

For beyond-design-basis accidents, the scenarios that lead to containment bypass or failure were evaluated because these are the accidents with the greatest potential consequences. The public and environmental consequences would be significantly less for accident scenarios that do not lead to containment bypass or failure. A steam generator tube rupture, early containment failure, late containment failure, and an interfacing systems loss-of-coolant accident (ISLOCA) were chosen as the representative set of beyond-design-basis accidents.

Commercial reactors, licensed by the NRC are required to complete Individual Plant Examinations (IPE) to assess plant vulnerabilities to severe accidents. An acceptable method of completing the IPEs is to perform a probabilistic risk assessment (PRA). A PRA analysis evaluates, in full detail (quantitatively), the consequences of all potential events caused by the operating disturbances (known as internal initiating events) within each plant. The PRA uses realistic criteria and assumptions in evaluating the accident progression and the systems required to mitigate each accident. The PRAs for the proposed reactors provided the required data to evaluate beyond-design-basis accidents.

As shown in Table 18, the difference in accident consequences for reactors using MOX fuel versus LEU fuel is generally very small. For beyond-design-basis accidents, the consequences would be expected to be slightly higher, with the largest increase associated with an ISLOCA. This is because the MOX fuel will release a higher actinide inventory in a severe accident. The impacts of an ISLOCA are estimated to be about 10 to 15 percent (an average of about 13 percent) greater to the general population living within 50 miles of the reactor operating with a partial MOX core instead of a LEU core. It should be noted that this accident has a very low estimated frequency of occurrence, an average of 1 in 3.2 million per year of reactor operation for the reactors being proposed.

Table 12. Design-Basis Accident Impacts for Catawba with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Noninvolved Worker			Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose to Noninvolved Worker ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Loss-of-Coolant Accident	7.50×10 ⁻⁶	LEU	3.78	1.51×10 ⁻³	1.81×10 ⁻⁷	1.44	7.20×10 ⁻⁴	8.64×10 ⁻⁸	3.64×10 ⁺³	1.82	2.19×10 ⁻⁴
		MOX	3.85	1.54×10 ⁻³	1.86×10 ⁻⁷	1.48	7.40×10 ⁻⁴	8.88×10 ⁻⁸	3.75×10 ⁺³	1.88	2.26×10 ⁻⁴
Spent Fuel Handling Accident ⁵	1.00×10 ⁻⁴	LEU	0.275	1.10×10 ⁻⁴	1.78×10 ⁻⁷	0.138	6.90×10 ⁻⁵	1.10×10 ⁻⁷	1.12×10 ⁺²	5.61×10 ⁻²	8.98×10 ⁻⁵
		MOX	0.262	1.05×10 ⁻⁴	1.68×10 ⁻⁷	0.131	6.55×10 ⁻⁵	1.05×10 ⁻⁷	1.10×10 ⁺²	5.48×10 ⁻²	8.77×10 ⁻⁵

¹ Increased likelihood (probability) of cancer fatality to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

⁵ Accident scenario frequency estimated in lieu of plant specific data.

Table 13. Design-Basis Accident Impacts for McGuire with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Noninvolved Worker			Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose to Noninvolved Worker ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Loss-of-Coolant Accident	1.50x10 ⁻⁵	LEU	5.31	2.12x10 ⁻³	5.10x10 ⁻⁷	2.28	1.14x10 ⁻³	2.74x10 ⁻⁷	3.37x10 ⁺³	1.68	4.03x10 ⁻⁴
		MOX	5.46	2.18x10 ⁻³	5.25x10 ⁻⁷	2.34	1.17x10 ⁻³	2.82x10 ⁻⁷	3.47x10 ⁺³	1.73	4.16x10 ⁻⁴
Spent Fuel Handling Accident ⁵	1.00x10 ⁻⁴	LEU	0.392	1.57x10 ⁻⁴	2.51x10 ⁻⁷	0.212	1.06x10 ⁻⁴	1.70x10 ⁻⁷	99.1	4.96x10 ⁻²	7.94x10 ⁻⁵
		MOX	0.373	1.49x10 ⁻⁴	2.38x10 ⁻⁷	0.201	1.01x10 ⁻⁴	1.62x10 ⁻⁷	97.3	4.87x10 ⁻²	7.79x10 ⁻⁵

¹ Increased likelihood (probability) of cancer fatality to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

⁵ Accident scenario frequency estimated in lieu of plant specific data.

Table 14. Design-Basis Accident Impacts for North Anna with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Noninvolved Worker			Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose to Noninvolved Worker ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Loss-of-Coolant Accident	2.10x10 ⁻⁵	LEU	0.114	4.56x10 ⁻⁵	1.53x10 ⁻⁸	3.18x10 ⁻²	1.59x10 ⁻⁵	5.34x10 ⁻⁹	39.4	1.97x10 ⁻²	6.62x10 ⁻⁶
		MOX	0.115	4.60x10 ⁻⁵	1.55x10 ⁻⁸	3.20x10 ⁻²	1.60x10 ⁻⁵	5.38x10 ⁻⁹	40.3	2.02x10 ⁻²	6.78x10 ⁻⁶
Spent Fuel Handling Accident ⁵	1.00x10 ⁻⁴	LEU	0.261	1.04x10 ⁻⁴	1.66x10 ⁻⁷	9.54x10 ⁻²	4.77x10 ⁻⁵	7.63x10 ⁻⁸	29.4	1.47x10 ⁻²	2.35x10 ⁻⁵
		MOX	0.239	9.56x10 ⁻⁵	1.53x10 ⁻⁷	8.61x10 ⁻²	4.31x10 ⁻⁵	6.90x10 ⁻⁸	27.5	1.38x10 ⁻²	2.21x10 ⁻⁵

¹ Increased likelihood (probability) of cancer fatality to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (1349 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (1349 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

⁵ Accident scenario frequency estimated in lieu of plant specific data.

Table 15. Beyond-Design-Basis Accident Impacts for Catawba with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Steam Generator Tube Rupture ⁵	6.31×10 ⁻¹⁰	LEU	3.46×10 ⁺²	0.346	3.49×10 ⁻⁹	5.71×10 ⁺⁶	2.86×10 ⁺³	2.88×10 ⁻⁵
		MOX	3.67×10 ⁺²	0.367	3.71×10 ⁻⁹	5.93×10 ⁺⁶	2.96×10 ⁺³	2.99×10 ⁻⁵
Early Containment Failure	3.42×10 ⁻⁸	LEU	5.97	2.99×10 ⁻³	1.63×10 ⁻⁹	7.70×10 ⁺⁵	3.85×10 ⁺²	2.11×10 ⁻⁴
		MOX	6.01	3.01×10 ⁻³	1.65×10 ⁻⁹	8.07×10 ⁺⁵	4.04×10 ⁺²	2.21×10 ⁻⁴
Late Containment Failure	1.21×10 ⁻⁵	LEU	3.25	1.63×10 ⁻³	3.15×10 ⁻⁷	3.93×10 ⁺⁵	1.96×10 ⁺²	3.79×10 ⁻²
		MOX	3.48	1.74×10 ⁻³	3.38×10 ⁻⁷	3.78×10 ⁺⁵	1.89×10 ⁺²	3.66×10 ⁻²
Interfacing System Loss of Cooling Accident	6.90×10 ⁻⁸	LEU	1.40×10 ⁺⁴	1	1.10×10 ⁻⁶	2.64×10 ⁺⁷	1.32×10 ⁺⁴	1.46×10 ⁻²
		MOX	1.60×10 ⁺⁴	1	1.10×10 ⁻⁶	2.96×10 ⁺⁷	1.48×10 ⁺⁴	1.63×10 ⁻²

¹ Increased likelihood (probability) of cancer fatality to the maximally exposed offsite individual located at the site boundary (762 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

⁵ McGuire timing and release fractions were used to compare like scenarios.

Table 16. Beyond-Design-Basis Accident Impacts for McGuire with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Steam Generator Tube Rupture	5.81×10 ⁻⁹	LEU	6.10×10 ⁺²	0.610	5.66×10 ⁻⁸	5.08×10 ⁺⁶	2.54×10 ⁺³	2.37×10 ⁻⁴
		MOX	6.47×10 ⁺²	0.647	6.02×10 ⁻⁸	5.28×10 ⁺⁶	2.64×10 ⁺³	2.45×10 ⁻⁴
Early Containment Failure	9.89×10 ⁻⁸	LEU	12.2	6.10×10 ⁻³	9.65×10 ⁻⁹	7.90×10 ⁺⁵	3.95×10 ⁺²	6.26×10 ⁻⁴
		MOX	12.6	6.30×10 ⁻³	9.97×10 ⁻⁹	8.04×10 ⁺⁵	4.02×10 ⁺²	6.37×10 ⁻⁴
Late Containment Failure	7.21×10 ⁻⁶	LEU	2.18	1.09×10 ⁻³	1.26×10 ⁻⁷	3.04×10 ⁺⁵	1.52×10 ⁺²	1.76×10 ⁻²
		MOX	2.21	1.11×10 ⁻³	1.28×10 ⁻⁷	2.96×10 ⁺⁵	1.48×10 ⁺²	1.71×10 ⁻²
Interfacing System Loss of Cooling Accident	6.35×10 ⁻⁷	LEU	1.95×10 ⁺⁴	1	1.02×10 ⁻⁵	1.79×10 ⁺⁷	8.93×10 ⁺³	0.091
		MOX	2.19×10 ⁺⁴	1	1.02×10 ⁻⁵	1.97×10 ⁺⁷	9.85×10 ⁺³	0.10

¹ Increased likelihood (probability) of cancer fatality to the maximally exposed offsite individual located at the site boundary (762 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (762 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

Table 17. Beyond-Design-Basis Accident Impacts for North Anna with LEU and Mixed Oxide Fuels

Accident Release Scenario	Accident Scenario Frequency (per year)	LEU or MOX Core	Maximally Exposed Offsite Individual			Population		
			Dose (rem)	Probability of Latent Cancer Fatality Given Dose at Site Boundary ¹	Risk of Latent Cancer Fatality (over campaign) ²	Dose (person-rem)	Number of Latent Cancer Fatalities in the Population within 80 km ³	Risk of Latent Cancer Fatalities (over campaign) ⁴
Steam Generator Tube Rupture ⁵	7.38×10 ⁻⁶	LEU	2.09×10 ⁺²	0.209	2.46×10 ⁻⁵	1.73×10 ⁺⁶	8.63×10 ⁺²	0.102
		MOX	2.43×10 ⁺²	0.243	2.86×10 ⁻⁵	1.84×10 ⁺⁶	9.20×10 ⁺²	0.109
Early Containment Failure ⁵	1.60×10 ⁻⁷	LEU	19.6	1.96×10 ⁻²	5.02×10 ⁻⁸	8.33×10 ⁺⁵	4.17×10 ⁺²	1.07×10 ⁻³
		MOX	21.6	2.16×10 ⁻²	5.54×10 ⁻⁸	8.42×10 ⁺⁵	4.21×10 ⁺²	1.08×10 ⁻³
Late Containment Failure ⁵	2.46×10 ⁻⁶	LEU	1.12	5.60×10 ⁻⁴	2.21×10 ⁻⁸	4.04×10 ⁺⁴	20.2	7.95×10 ⁻⁴
		MOX	1.15	5.75×10 ⁻⁴	2.26×10 ⁻⁸	4.43×10 ⁺⁴	22.1	8.70×10 ⁻⁴
Interfacing System Loss of Cooling Accident ⁵	2.40×10 ⁻⁷	LEU	1.00×10 ⁺⁴	1	3.84×10 ⁻⁶	4.68×10 ⁺⁶	2.34×10 ⁺³	8.99×10 ⁻³
		MOX	1.22×10 ⁺⁴	1	3.84×10 ⁻⁶	5.41×10 ⁺⁶	2.70×10 ⁺³	1.04×10 ⁻²

¹ Increased likelihood (probability) of cancer fatality to the maximally exposed offsite individual located at the site boundary (1349 m) - if exposed to the indicated dose.

² Increased likelihood (probability) of cancer fatality over the estimated 16 year campaign (frequency weighted) to a hypothetical individual - a noninvolved worker at a distance of 640 meters or the maximally exposed offsite individual located at the site boundary (1349 m).

³ Estimated number of cancer fatalities in the entire offsite population out to a distance of 80 kilometers (50 miles) if exposed to the indicated dose.

⁴ Estimated number of cancer fatalities over the estimated 16 year campaign (frequency weighted) in the entire offsite population out to a distance of 80 kilometers (50 miles).

⁵ McGuire release durations and warning times were used in lieu of site specific data.

Table 18. Ratio of Accident Impacts for Mixed Oxide Fueled and Uranium Fueled Reactors (Mixed Oxide Impacts/LEU Impacts)

Accident Scenario	Catawba		McGuire		North Anna		S&D PEIS	
	MEI	Population	MEI	Population	MEI	Population	MEI	Population
Design-Basis Accidents								
Loss-of-Coolant Accident	1.03	1.03	1.01	1.03	1.03	1.03	NA	NA
Fuel Handling Accident	0.95	0.98	0.90	0.94	0.95	0.98	NA	NA
Beyond-Design-Basis Accidents								
Steam Generator Tube Rupture	1.06	1.04	1.16	1.07	1.06	1.04	0.94	0.94
Early Containment Failure	1.01	1.05	1.10	1.01	1.03	1.02	0.96	0.97
Late Containment Failure	1.07	0.96	1.03	1.09	1.01	0.97	1.07	1.08
Interfacing System Loss of Cooling Accident	1.14	1.12	1.22	1.15	1.12	1.10	0.92	0.93

Key: MEI – Maximally Exposed Individual; NA – not available

Note: The number 1 represents the consequences equal to the accident occurring in the proposed reactors with an LEU core

Table 19 shows the number of prompt fatalities estimated from a postulated ISLOCA and a beyond-design-basis steam generator tube rupture. As shown in this table, the differences due to the use of MOX fuel rather than LEU are small. None of the other accidents evaluated in this Synopsis are expected to result in prompt fatalities.

Table 19. Estimated Prompt Fatalities from Beyond-Design-Basis Reactor Accidents

Reactor Site	LEU Core	MOX Core
Steam Generator Tube Rupture		
Catawba	1	1
McGuire	1	1
North Anna	0	0
Interfacing System Loss of Cooling Accident		
Catawba	815	843
McGuire	398	421
North Anna	54	60

4.2.3 Waste Management

The proposed reactors would be expected to continue to produce mixed LLW, LLW, hazardous waste, and nonhazardous waste as part of their normal operations. According to the offeror, the volume of waste generated is not expected to increase as a result of the reactors using MOX fuel. This is consistent with information presented in the S&D PEIS that stated the use of MOX fuel is not expected to increase the amount or change the content of the waste being generated. (S&D PEIS, pg. 4-734) Table 20 shows the annual waste volume that would be generated during operation of the proposed reactors.

Table 20. Estimated Waste Generation Rates

Reactor Site	Mixed LLW (m ³ /yr)	LLW (m ³ /yr)	Hazardous Waste (m ³ /yr)	Nonhazardous Waste Solid (m ³ /yr)
Catawba (per unit)	0.3	25	15	455
McGuire (per unit)	0.1	21	14	568
North Anna (per unit)	0.0	118	6	5,200
S&D PEIS*	na	178	na	na

na - not available.

*S&D PEIS pg. 4-734.

As shown in Table 20, the estimated LLW generation for each of the proposed reactors is less than the amount estimated in the S&D PEIS. None of these waste estimates are expected to impact the proposed reactor sites in terms of their ability to handle these wastes. The wastes would continue to be handled in the same manner as they are today with no change required due to the use of MOX fuel at the reactors.

4.2.4 Spent Fuel

As shown in Table 21, it is likely that some additional spent fuel would be generated by using a partial MOX core in the proposed reactors. The amount of additional spent nuclear fuel generated is estimated to range from approximately 2 to 16 percent of the total amount of spent fuel that would be generated by the proposed reactors during the time period MOX fuel would be used. The offeror intends to manage the spent MOX fuel the same as its spent LEU fuel, by storing it in the reactor's spent fuel pool or in dry storage. According to the offeror, the amount of additional spent fuel is not expected to impact spent fuel management at the reactor sites.

Table 21. Total Additional Spent Fuel Assemblies Generated for the MOX Fuel Option

	Number of Spent Fuel Assemblies Generated with no MOX Fuel	Number of Additional Spent Fuel Assemblies with MOX Fuel	Percent Increase
<i>S&D PEIS (based on a shorter fuel cycle)</i>			
Typical PWR*	48/yr	32/yr	66.7%
<i>Offeror's Reactors</i>			
Total Over MOX Campaign	3,732	199	5.3%

*S&D PEIS pg. 4-734

For the four units at Catawba and McGuire, all of the additional spent nuclear fuel assemblies would be generated during the transition cycles from LEU to MOX fuel. Additional assemblies help to maintain peaking below design and regulatory limits, and compensate for the greater end-of-cycle reactivity. Once equilibrium is reached in the partial MOX core, additional fuel assemblies would not be required.

Like Catawba and McGuire, the North Anna units are expected to require additional LEU assemblies during the first transition cores. However, additional assemblies will also be required during equilibrium cycles because the smaller North Anna cores (157 fuel assemblies compared to 193 each for the McGuire and Catawba units) are more prone to neutron leakage and provide less flexibility with respect to meeting power peaking limits.

As designs are finalized and optimized for MOX fuel it may be possible to reduce MOX fuel assembly peaking and thereby reduce the number of additional assemblies required (and spent fuel generated) at the proposed reactors. As it currently stands, the North Anna site could generate approximately 16 percent more spent fuel by using MOX fuel than if the plants continued to use LEU fuel. The total amount of additional spent fuel generated by all six proposed reactors is estimated to be approximately 92 metric tons heavy metal. However, such MOX spent fuel is included in the inventory for the potential Nuclear Waste Policy Act geologic repository being studied by DOE. DOE is in the process of completing an environmental impact statement for a geologic repository.

4.2.5 Land Use

The offeror has stated that the proposed reactor sites would not require any additional land to support the use of MOX fuel in their reactors. This statement is consistent with information presented in the S&D PEIS. (S&D PEIS, pg. 4-720)

4.2.6 Infrastructure Requirements

The offeror has stated that the proposed reactor sites would not require any additional infrastructure to support the use of MOX fuel in their reactors. This statement is consistent with information presented in the S&D PEIS. (S&D PEIS, pg. 4-721)

4.2.7 Air Quality

Continued operation of the proposed reactor sites would result in a small amount of nonradiological air pollutants being released to the atmosphere, mainly due to the requirement to periodically test emergency diesel generators. The estimated air pollutants resulting from operation of the proposed reactors would not be expected to increase due to the use of MOX fuel in these reactors. Table 22 shows the estimated air pollutant concentrations and the national standards for these pollutants at the proposed sites. The impact of radiological releases is included in Section 4.2.1.

Table 22. Nonradiological Ambient Air Pollutant Concentrations with or without MOX Fuel from the Continued Operation of the Proposed Reactors

	Carbon Monoxide 8 hour 1 hour	Nitrogen Dioxide Annual	PM ₁₀ Annual 24 hour	Sulfur Dioxide Annual 24 hour 3 hour
National Ambient Air Quality Standards ($\mu\text{g}/\text{m}^3$)	10,000 40,000	100	50 150	80 365 1,300
Catawba ($\mu\text{g}/\text{m}^3$)	978 1400	3.26	0.102 65.4	0.0418 26.9 60.4
McGuire ($\mu\text{g}/\text{m}^3$)	1060 1510	2.6	0.08 71.2	0.03 29.9 67.4
North Anna ($\mu\text{g}/\text{m}^3$)	416 594	0.01	0.004 15.4	0.02 63 142

4.2.8 Water Quality

The offeror stated that there would be no change in water usage or discharge of nonradiological pollutants resulting from use of MOX fuel in the proposed reactors. Each of the reactor sites discharges nonradiological wastewater in accordance with a National Pollutant Discharge Elimination System

(NPDES) Permit, or an analogous state-issued permit. Permitted outfalls discharge conventional and priority pollutants from the reactor and ancillary processes that are similar to discharges from most reactor sites. Discharge Monitoring Reports (DMRs) for North Anna (May 1994 through April 1998) and Catawba (calendar years 1995 through 1997) showed that for the most part, there were only occasional noncompliances with permit limitations, only one of which occurred at an outfall receiving reactor process discharges. (The offeror did not provide DMRs for McGuire.) During the period reviewed, Catawba experienced four noncompliances, two in 1995 and two in early 1996. North Anna has exceeded the chlorine limitation at its sewage treatment facility, but this would neither affect nor be affected by, the use of MOX fuel. The impact of radiological releases is included in Section 4.2.1.

4.2.9 Socioeconomics

The offeror has stated that the proposed reactor sites would not need to employ any additional workers to support the use of MOX fuel in their reactors so there would not be any expected socioeconomic impacts. This statement is consistent with information presented in the S&D PEIS which concluded that the use of MOX fuel could result in small increases in the worker population at the reactor sites (between 40 and 105), but that any increase would be filled from the area's existing workforce. Therefore, there would be little impact on the local economy and communities (S&D PEIS, pgs. 4-727).

5.0 REQUIRED PERMITS AND LICENSES

Both the MOX fabrication facility and the selected reactors will require permitting and licensing activities to support the proposed fabrication and use of MOX fuel. The MOX fabrication facility will be constructed and operated at an existing DOE-owned site, but will be licensed by the NRC. The selected reactors are all U.S. operating, commercial PWRs, licensed by the NRC. The MOX facility, in particular, has special licensing considerations apart from most facilities that are built and operated in the United States today. This section discusses the particular licensing and permitting requirements of both facilities.

Both DOE and NRC have their origins in the Atomic Energy Act (AEA). The AEA first established their predecessor agency, the Atomic Energy Commission (AEC) to promote and regulate the use of atomic energy in the United States. The AEC was subsequently split into two organizations that have since become DOE and NRC. DOE was authorized to manage defense-related nuclear activities, while NRC was given the responsibility of regulating civilian uses of nuclear materials. Both DOE and NRC publish their regulations in Title 10 of the *Code of Federal Regulations* (10 CFR), with NRC publishing in Parts 0–199, and DOE, Parts 200–1099. DOE supplements its regulations with a series of Orders, while NRC uses Regulatory Guides to further establish specific methods of implementation of its regulations. The proposed actions that are the subject of this Synopsis are unique in that DOE and NRC each have regulatory responsibility for certain parts of the activities.

The AEA authorizes DOE to establish standards to protect health or minimize dangers to life or property for activities under DOE's jurisdiction. Through a series of DOE orders and regulations, an extensive system of standards and requirements has been established to ensure safe operation of facilities. The DOE orders have been revised and reorganized to reduce duplication and eliminate obsolete provisions (though some older orders remain in effect during the transition). For DOE orders, the new organization is by Series and is generally intended to include all DOE policies, manuals, requirements documents, notices,

guides, and orders. For proposed actions involving fuel qualification, relevant DOE regulations include 10 CFR 820, Procedural Rules for DOE Nuclear Activities; 10 CFR 830, Nuclear Safety Management; 10 CFR.834, Radiation Protection of the Public and the Environment (Draft); 10 CFR 835, Occupational Radiation Protection; 10 CFR 1021, Compliance with the National Environmental Policy Act; and 10 CFR 1022, Compliance with Floodplains/Wetlands Environmental Review Requirements. DOE orders include those in new Series 400, which deals with Work Process; and within this Series, DOE Order 420.1 addresses Facility Safety; 425.1 addresses Startup and Restart of Nuclear Facilities; 452.1A addresses Nuclear Explosive and Weapons Surety Programs; 452.2A addresses the Safety of Nuclear Explosives Operations; 452.4 addresses the Security and Control of Nuclear Explosives; 460.1A addresses Packaging and Transportation Safety; 470.1 addresses the Safeguards and Security Program; and 474.1 addresses the Control and Accountability of Nuclear Materials. In addition, DOE (older number) Series 5400 addresses environmental, safety, and health programs for DOE operations. Not all of these DOE regulations and orders would apply to operation of the proposed MOX fuel fabrication facility, and most would not apply to use of the proposed reactors.

There are a number of Federal environmental statutes dealing with environmental protection, compliance, or consultation. In addition, certain environmental requirements have been delegated to state authorities for enforcement and implementation. Certain statutes and regulations require DOE to consult with Federal, State, and local agencies and federally recognized Native American groups. Most of these consultations are related to biotic resources, cultural resources, and Native American resources. Biotic resources consultations generally pertain to the potential for activities to disturb sensitive species or habitats. Cultural resources consultations relate to the potential for disruption of important cultural resources and archaeological sites. Finally, Native American consultations are concerned with the potential for disturbance of Native American sites and resources. DOE has conducted appropriate consultations at the candidate sites and will report the results of these consultations in the SPD Final EIS.

It is DOE policy to conduct its operations in an environmentally safe manner in compliance with all applicable statutes, regulations, and standards. Although this chapter does not address pending or future regulations, DOE recognizes that the regulatory environment is subject to change, and that the construction, operation, and decommissioning of any surplus plutonium disposition facility must be conducted in compliance with all applicable regulations and standards.

5.1 Regulatory Activities

It is likely that new or modified permits will be needed before the proposed surplus plutonium disposition facilities may be constructed or operated. Permits regulate many aspects of facility construction and operations, including the quality of construction, treatment and storage of hazardous waste, and discharges of effluents to the environment. These permits will be obtained from appropriate Federal, state, and local agencies. NRC issues operating licenses for major facilities such as commercial nuclear power reactors and fuel fabrication facilities, although the regulations under which these two facilities would be licensed are different.

5.1.1 The MOX Facility

The MOX facility would be licensed to operate by NRC under its regulations at 10 CFR 70, *Domestic Licensing of Special Nuclear Materials*. Because the facility would be located at a DOE site, however,

certain DOE requirements affecting site interfaces and infrastructure will also be applicable. In addition, as would be the case regardless of where the facility were built, Federal or state regulations implementing certain provisions of the Clean Water Act, Clean Air Act, and Resource Conservation and Recovery Act would be applicable. These regulations are implemented through permits. Evaluation would be required to determine whether MOX facility emissions and activities would necessitate modification of any of these permits. Analyses in the SPD Draft EIS have shown that there would be minimal impact from construction and operation of the MOX facility.

MOX facility design and operating parameters will be imposed by requirements of 10 CFR 70. Facility robustness, worker health and safety, and material and personnel security are all specified by 10 CFR 70. This regulation incorporates and refers the licensee to provisions of other NRC regulations such as those found at 10 CFR 20, *Radiation Protection Standards*. Safety and environmental analyses will be required to support the license application for the MOX facility.

Integral to the NEPA process is consideration of how the proposed action might affect biotic, cultural, and Native American resources, and the need for mitigation of any potential impacts. Required consultations with agencies and recognized Native American groups have been conducted.

5.1.2 Reactors

Nuclear power reactors undergo a lengthy licensing process under 10 CFR 50, *Domestic Licensing of Production and Utilization Facilities*, beginning before facility construction commences. This process includes preparation of safety analysis and environmental reports. The safety analysis report remains a living document that serves as the licensing basis for the plant, and is updated throughout the life of the plant. Public hearings before a licensing board are conducted prior to a license being issued. Once issued, operating licenses may be amended only with proper evaluation, review and approval as specified in 10 CFR 50.90. This prescriptive process requires demonstration that a proposed change does not involve an unreviewed environmental or safety question and provides for public notice and opportunity to comment prior to issuance of the license amendment. Minor license amendments can be processed fairly expeditiously, but more involved amendments can require multiple submittals before the NRC is assured that the proposed action will not reduce the margin of safety of the plant. All submittals, except portions that contain proprietary information, are available to the public.

The regulatory process for requesting reactor license amendments to use MOX fuel will be the same as for any 10 CFR 50 Operating License amendment request. The reactor licensee submitting an operating license amendment request in accordance with 10 CFR 50.90 initiates this process. Safety and environmental analyses commensurate with the level of potential impact are submitted in support, and as part, of the amendment request. NRC reviews the submitted information and denies or approves the request. The review process can involve submittal of additional information and face-to-face meetings between the licensee and NRC, and can result in modified license amendment requests. NRC provides notice in the *Federal Register* for certain steps in the process. The notice for the amendment request initially appears in the *Federal Register* with a Notice of Opportunity for Public Hearing. *Federal Register* notices are also required for the Proposed No Significant Hazards Determination, associated environmental documents, Consideration of Issuance of the License Amendment, and issuance of the final amendment. Certain of these notices allow for the opportunity to provide written comments, and for potentially affected parties to petition to intervene or request public hearings.

The six reactors proposed to use MOX fuel have been operating for a number of years. Revisions to each of their operating licenses will be required prior to MOX fuel being brought to the reactor sites and loaded into the reactors. The license amendment request will need to include a discussion of all potential impacts and changes in reactor operation that could be important to safety or the environment. This will include fresh and spent fuel handling, security and operational changes, as well as complete core load analysis and safety analyses, including potential changes to the severe accident analyses. Because the offeror has indicated that no new construction would be required to accommodate the use of MOX fuel, it is unlikely that any biotic, cultural or Native American resources would be impacted by the proposed action. The analyses performed for the Environmental Critique have demonstrated very little difference between the impacts from using a partial MOX core over a LEU core.

The need for modifications to site permits will be evaluated by the individual plants as part of their licensing activities. The offeror has indicated, and the analyses and reviews performed for the Environmental Critique, support the assertion, that there would be minimal or no change in effluents, emissions, and wastes (both radiological and nonradiological). Therefore, it is expected that few, if any, environmental permits or agreements will require modification for use of MOX fuel.

6.0 CONCLUSION

No major impacts to the environment surrounding the proposed MOX facility or reactor sites are expected to result from normal operation of these facilities. Environmental impacts from operation of the proposed reactors are not expected to change appreciably due to the use of MOX fuel. Impacts from construction and operation of the MOX facility are expected to be generally consistent with those presented in the SPD Draft EIS, and impacts at the reactor sites are expected to be generally consistent with those in the S&D PEIS.



Office of Fissile Materials Disposition

United States Department of Energy

Surplus Plutonium Disposition Final Environmental Impact Statement

Comment Response Document

Volume III - Part A

November 1999

For Further Information Contact:
U.S. Department of Energy

Office of Fissile Materials Disposition, P.O. Box 23786, Washington, DC 20026-3786

Cover Sheet

Responsible Agency: United States Department of Energy (DOE)

Title: *Surplus Plutonium Disposition Final Environmental Impact Statement* (SPD EIS) (DOE/EIS-0283)

Locations of Candidate Sites: California, Idaho, New Mexico, North Carolina, South Carolina, Tennessee, Texas, Virginia, and Washington

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Abstract: On May 22, 1997, DOE published a Notice of Intent in the Federal Register (62 Federal Register 28009) announcing its decision to prepare an environmental impact statement (EIS) that would tier from the analysis and decisions reached in connection with the *Storage and Disposition of Weapons-Usable Fissile Materials Final Programmatic EIS*. At that time, the U.S. Environmental Protection Agency decided to be a cooperating agency. The *Surplus Plutonium Disposition Draft Environmental Impact Statement* (SPD Draft EIS) (DOE/EIS-0283-D) was prepared in accordance with NEPA and issued in July 1998. It identified the potential environmental impacts of reasonable alternatives for the proposed siting, construction, and operation of three facilities for the disposition of up to 50 metric tons (55 tons) of surplus plutonium, as well as a No Action Alternative. These three facilities would accomplish pit disassembly and conversion, plutonium conversion and immobilization, and mixed oxide (MOX) fuel fabrication.

For the alternatives that included MOX fuel fabrication, the SPD Draft EIS described the potential environmental impacts of using from three to eight commercial nuclear reactors to irradiate MOX fuel. The potential impacts were based on a generic reactor analysis that used actual reactor data and a range of potential site conditions. In May 1998, DOE initiated a procurement process to obtain MOX fuel fabrication and reactor irradiation services. In March 1999, DOE awarded a contract to Duke Engineering & Services, COGEMA Inc., and Stone & Webster (known as DCS) to provide the requested services. A *Supplement to the SPD Draft EIS* was issued in April 1999, which analyzed the potential environmental impacts of using MOX fuel in six specific reactors named in the DCS proposal. Those reactors are Catawba Nuclear Station Units 1 and 2 in South Carolina, McGuire Nuclear Station Units 1 and 2 in North Carolina, and North Anna Power Station Units 1 and 2 in Virginia.

DOE has identified the hybrid approach as its Preferred Alternative for the disposition of surplus plutonium. This approach allows for the immobilization of 17 metric tons (19 tons) of surplus plutonium and the use of 33 metric tons (36 tons) as MOX fuel. DOE has identified the Savannah River Site near Aiken, South Carolina, as the preferred site for all three disposition facilities (Alternative 3). DOE has also identified Los Alamos National

Laboratory in New Mexico as the preferred site for lead assembly fabrication, and Oak Ridge National Laboratory in Tennessee as the preferred site for postirradiation examination of lead assemblies.

Public Involvement: In preparing the SPD Final EIS, DOE considered comments on the SPD Draft EIS and the *Supplement to the SPD Draft EIS* received via mail, fax, and email, and comments recorded by phone and transcribed from videotapes. In addition, comments were captured by notetakers during interactive public meetings held on the SPD Draft EIS in August 1998 in Amarillo, Texas; Idaho Falls, Idaho; North Augusta, South Carolina; Portland, Oregon; and Richland, Washington, as well as during a public meeting on the *Supplement to the SPD Draft EIS* held in June 1999 in Washington, D.C. Comments received and DOE's responses to these comments are found in Volume III, the Comment Response Document, of the SPD Final EIS. Information on the surplus plutonium disposition program can be obtained by visiting the Office of Fissile Materials Disposition Web site at <http://www.doe-md.com>.



DOE/EIS-0283

Surplus Plutonium Disposition Final Environmental Impact Statement

Comment Response Document

Volume III - Part A

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

November 1999

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List of Acronyms

AEA	Atomic Energy Act of 1954	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
AECL	Atomic Energy of Canada Limited		
AED	aerodynamic equivalent diameter	CFA	Central Facilities Area
AIRFA	American Indian Religious Freedom Act	CFR	Code of Federal Regulations
		CPP	Chemical Processing Plant
ALARA	as low as is reasonably achievable	CWA	Clean Water Act of 1972, 1987
AMWTP	Advanced Mixed Waste Treatment Project	D&D	decontamination and decommissioning
ANL-W	Argonne National Laboratory-West	DBA	design basis accident
		DCS	Duke Engineering & Services, COGEMA Inc., and Stone & Webster
APSF	Actinide Packaging and Storage Facility		
AQCR	Air Quality Control Region	DNFSB	Defense Nuclear Facilities Safety Board
ARF	airborne release fraction		
ARIES	Advanced Recovery Integrated Extraction System	DOC	U.S. Department of Commerce
		DoD	U.S. Department of Defense
AVLIS	Atomic Vapor Laser Isotope Separation	DOE	U.S. Department of Energy
		DOL	U.S. Department of Labor
		DOT	U.S. Department of Transportation
BEA	Bureau of Economic Analysis		
BEIR V	Report V of the Committee on the Biological Effects of Ionizing Radiations	DR	damage ratio
		DU PEIS	<i>Final Programmatic Environmental Impact Statement for Alternative Strategies for Long-Term Management and Use of Depleted Uranium Hexafluoride</i>
BIO	Basis for Interim Operation		
BLM	Bureau of Land Management		
BNFL	British Nuclear Fuels		
BWR	boiling water reactor	DWPF	Defense Waste Processing Facility
CAA	Clean Air Act		
CAB	Citizens Advisory Board		
CANDU	Canadian Deuterium Uranium (reactors)	EA	environmental assessment
		EBR	Experimental Breeder Reactor (I or II)
CEQ	Council on Environmental Quality	EIS	environmental impact statement
		EPA	Environmental Protection

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	Agency	HFEF	Hot Fuel Examination Facility
ES&H	environment, safety, and health	HHS	Department of Health and Human Services
ESTEEM	Education in Science, Technology, Energy, Engineering, and Math	HIGHWAY	(computer code for distances and populations along U.S. highways)
ETB	Engineering Test Bay	HLW	high-level waste
ETTP	East Tennessee Technology Park	HLWVF	high-level-waste vitrification facility
FAA	Federal Aviation Administration	HMIS	Hazardous Materials Information System
FDP	fluorinel dissolution process	HWTPF	Hazardous Waste Treatment and Processing Facility
FEMA	Federal Emergency Management Agency	HYDOX	hydride oxidation
FFCA	Federal Facility Compliance Agreement	IAEA	International Atomic Energy Agency
FFF	Uranium Fuel Fabrication Facility	ICPP	Idaho Chemical Processing Plant
FFTF	Fast Flux Test Facility	ICRP	International Commission on Radiological Protection
FI	field investigation	ID DHW	Idaho Department of Health and Welfare
FM	Farm-to-Market (road)	INEEL	Idaho National Engineering and Environmental Laboratory
FMF	Fuel Manufacturing Facility	INRAD	Intrinsic Radiation
FMEA	failure modes and effects analysis	INTEC	Idaho Nuclear Technology and Engineering Center
FMEF	Fuels and Materials Examination Facility	IPE	Individual Plant Examination
FONSI	finding of no significant impact	ISC	Industrial Source Complex Model
FPF	Fuel Processing Facility	ISC3	Industrial Source Complex Model, Version 3
FPPA	Farmland Protection Policy Act	ISCST3	Industrial Source Complex Model, Short-Term, Version 3
FR	Federal Register	ISLOCA	interfacing systems
GAO	General Accounting Office	ITP	loss-of-coolant accident In-Tank Precipitation Process
GDP	gaseous diffusion plant	LANL	Los Alamos National Laboratory
GE	General Electric Company		
GENII	Generation II, Hanford environmental radiation dosimetry software system		
GPS	global positioning satellite		
HE	high explosive		
HEPA	high-efficiency particulate air (filter)		
HEU	highly enriched uranium		

LCF	latent cancer fatality	NOI	Notice of Intent
LDR	Land Disposal Restrictions	NPDES	National Pollutant Discharge Elimination System
LEU	low-enriched uranium		
LLNL	Lawrence Livermore National Laboratory	NPH	natural phenomena hazard
		NPS	National Park Service
LLW	low-level waste	NRC	U.S. Nuclear Regulatory Commission
LOCA	loss-of-coolant accident		
LPF	leak path factor	NRU	National Research Universal
LWR	light water reactor	NTS	Nevada Test Site
		NWCF	New Waste Calcining Facility
M&H	Mason & Hanger Corporation	NWPA	Nuclear Waste Policy Act
MACCS2	Melcor Accident Consequence Code System (computer code)	NWS	National Weather Service
MAR	material at risk	ORIGEN	ORNL Isotope Generation and Depletion Code
MD	Office of Fissile Materials Disposition		
		ORNL	Oak Ridge National Laboratory
MEI	maximally exposed individual	ORR	Oak Ridge Reservation
MIMAS	Micronized Master	OSHA	Occupational Safety and Health Administration
MMI	Modified Mercalli Intensity		
MOX	mixed oxide		
		PBF	Power Burst Facility
		PEIS	programmatic environmental impact statement
NAAQS	National Ambient Air Quality Standards		
		PFP	Plutonium Finishing Plant
NAGPRA	Native American Graves Protection and Repatriation Act	PIE	postirradiation examination
NAS	National Academy of Science	PM _{2.5}	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
NCRP	National Council on Radiation Protection and Measurements		
		PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to 10 microns
NDA	nondestructive analysis		
NEPA	National Environmental Policy Act of 1969		
		PNNL	Pacific Northwest National Laboratory
NESHAPs	National Emissions Standards for Hazardous Air Pollutants		
		PRA	probabilistic risk assessment
NIOSH	National Institute of Occupational Safety and Health	PSD	prevention of significant deterioration
NOA	Notice of Availability		
		PUREX	Plutonium-Uranium Extraction (Facility)
NOAA	National Oceanic and Atmospheric Administration	PWR	pressurized water reactor

R&D	research and development		Control
RADTRAN 4	(computer code: risks and consequences of radiological materials transport)	SCE&G	South Carolina Electric & Gas Company
RANT	Radioactive Assay and Nondestructive Test	SCSHPO	South Carolina State Historic Preservation Officer
RAMROD	Radioactive Materials Research, Operations and Demonstration	SDWA	Safe Drinking Water Act, as amended
RCRA	Resource Conservation and Recovery Act, as amended	SEIS	supplemental environmental impact statement
REA	regional economic area	SHPO	State Historic Preservation Officer
RF	respirable fraction	SI	sealed insert
RfC	reference concentration	SMC	Specific Manufacturing Complex
RfD	reference dose	SNF	spent nuclear fuel
RFETS	Rocky Flats Environmental Technology Site	SNM	special nuclear material
RFP	Request for Proposal	SPD	surplus plutonium disposition
RIA	Reactivity Insertion Accidents	SPD EIS	<i>Surplus Plutonium Disposition Environmental Impact Statement</i>
RIMS II	Regional Input-Output Modeling System II (computer code)	SPERT	Special Power Excursion Reactor Test
RISKIND	(computer code: risks and consequences of radiological materials transport)	SRS	Savannah River Site
ROD	Record of Decision	SSM PEIS	<i>Final Programmatic Environmental Impact Statement for Stockpile Stewardship and Management</i>
ROI	region of influence		
RMF	Radiation Measurements Facility	SST/SGT	safe, secure trailer/SafeGuards
RWMC	Radioactive Waste Management Complex		Transport
		SWMU	solid waste management unit
		SWP 1	Service Waste Percolation Pond 1
S/A	Similarity of Appearance (provision of Endangered Species Act)	TA	Technical Area
SAR	safety analysis report	TCE	trichloroethylene
SARA	Superfund Amendments and Reauthorization Act of 1986	TNRCC	Texas Natural Resource Conservation Commission
SCDHEC	South Carolina Department of Health and Environmental	TPBAR-LTA	tritium-producing burnable absorber rod lead test assembly
		TRA	technical risk assessment

TRANSCOM	transportation tracking and communications system	WNP-2	Washington Nuclear Plant-2
		WPPSS	Washington Public Power Supply System
TRU	transuranic		
TRUPACT	TRU waste package transporter	WROC	Waste Reduction Operations Complex
TSCA	Toxic Substances Control Act		
TSP	total suspended particulates	WSRC	Westinghouse Savannah River Company
TVA	Tennessee Valley Authority		
TWRS	tank waste remediation system		
TWRS EIS	<i>Tank Waste Remediation System Final Environmental Impact Statement</i>	ZPPR	Zero Power Physics Reactor
UC	Regents of the University of California		
UFSAR	updated final safety analysis report		
USACE	U.S. Army Corps of Engineers		
USC	United States Code		
USEC	United States Enrichment Corporation		
USFWS	U.S. Fish and Wildlife Service		
UV	ultraviolet		
VOC	volatile organic compounds		
VORTAC	very high frequency omnidirectional range/tactical air navigation (facility)		
VRM	Visual Resource Management		
WAG 3	Waste Area Grouping 3		
WERF	Waste Experimental Reduction Facility		
WIPP	Waste Isolation Pilot Plant		
WM PEIS	<i>Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste</i>		
WNP-1	Washington Nuclear Plant-1		

Chemicals and Units of Measure

°C	degrees Celsius (Centigrade)	min	minute
°F	degrees Fahrenheit	mph	miles per hour
μCi	microcurie	mrem	millirem
μg	microgram	MTHM	metric tons of heavy metal
μm	micrometer (micron)	MVA	megavolt-ampere
46°26'07"	46 degrees, 26 minutes, 7 seconds	MW	megawatt
		MWe	megawatt electric
Ci	curie	MWh	megawatt-hour
cm	centimeter	N ₂	nitrogen
CO	carbon monoxide	nCi	nanocurie
CO ₂	carbon dioxide	NO ₂	nitrogen dioxide
dB	decibel	pCi	picocurie
dBA	decibel, A-weighted	pcm/F	percent mille/per degree Fahrenheit
DUF ₆	depleted uranium hexafluoride		
eH	oxidation reduction potential	pH	hydrogen ion concentration
ft	foot	PM _{2.5}	particulate matter less than or equal to 2.5 μm in diameter
ft ²	square foot		
ft ³	cubic foot	PM ₁₀	particulate matter less than or equal to 10 μm in diameter
g	gram		
g	gravitational acceleration	ppm	parts per million
gal	gallon	PuO ₂	plutonium dioxide
GWD/t	gigawatt days (per ton)	rad	radiation absorbed dose
ha	hectare	rem	roentgen equivalent man
hr	hour (in compound units)	s	second
in	inch	SO ₂	sulfur dioxide
kg	kilogram	t	metric ton
km	kilometer	ton	short ton
km ²	square kilometers	UF ₆	uranium hexafluoride
kV	kilovolt	UO ₂	uranium dioxide
l	liter	yd	yard
lb	pound	yd ³	cubic yard
m	meter	yr	year (in compound units)
m ²	square meter	wt %	weight percent
m ³	cubic meter		
mg	milligram		
mi	mile		

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

Introduction

1.1 BACKGROUND

In July 1998, the U.S. Department of Energy (DOE) published the *Surplus Plutonium Disposition Draft Environmental Impact Statement* (SPD Draft EIS) (DOE/EIS-0283-D), which analyzed the direct, indirect, and cumulative environmental effects of reasonable alternatives for siting, constructing, and operating three facilities proposed for surplus plutonium disposition at four candidate DOE sites. In April 1999, DOE also published the *Supplement to the SPD Draft EIS (Supplement)* (DOE/EIS-0283-DS), which describes the potential environmental impacts of using mixed oxide (MOX) fuel in six specific reactors named in the proposal from Duke Engineering & Services, COGEMA Inc., and Stone & Webster (DCS), as well as program changes made since the SPD Draft EIS was published.

In accordance with Under the guidelines set forth in the National Environmental Policy Act (NEPA), DOE established a 60-day period for public review and comment on the SPD Draft EIS. The public comment period began on July 17, 1998, and closed on September 16, 1998. For the *Supplement*, DOE established a 45-day period for public review and comment beginning on May 14, 1999, and closing on June 28, 1999. DOE also considered all comments received after these closing dates.

In August 1998, DOE convened five public hearings, one near each of the candidate sites (Richland, Washington; Amarillo, Texas; North Augusta, South Carolina; and Idaho Falls, Idaho) and one at a regional location (Portland, Oregon) to obtain oral and written comments on the SPD Draft EIS. On June 15, 1999, a public hearing was convened by DOE in Washington, D.C., to obtain written and oral comments on the *Supplement*.

Figure 1-1 reflects the dates and locations of these public hearings. All hearings were moderated by a facilitator, and comments and concerns were recorded by trained notetakers. The public was also encouraged to provide comments on both the SPD Draft EIS and the *Supplement* by mail, on a toll-free telephone and fax line, or by email through the Web site of DOE's Office of Fissile Materials Disposition (MD).

Attendance at the public hearings and the number of unique oral comments recorded at each are presented in Table 1-1. Attendance statistics for the public hearings were based on the number of participants who completed registration forms. A number of the written comments submitted during the public hearings were also presented orally. As these were considered written comments, they were not recorded as part of the hearing minutes. The number of comments collected by the various methods of submission are shown in Table 1-2.

Each comment document received by email, fax, mail, or telephone and each written comment submitted at the public hearings was marked with the date it was processed and assigned a unique identification code consisting of a prefix designating the method of transmission and a sequential number. Oral comments collected at the public hearings were similarly identified: each comment was assigned a unique code comprising a prefix designating the hearing location and a sequential number. Postcards received as part of a campaign were the only exception to this procedure; regardless of how the postcard was submitted, it was automatically given a distinctive postcard designation.

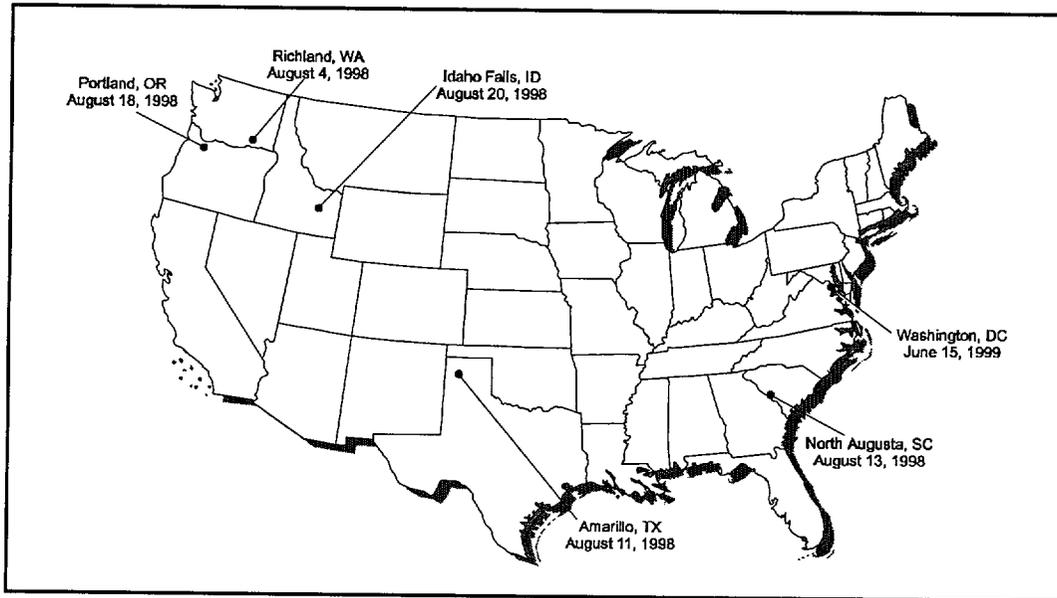


Figure 1-1. Dates and Locations of Public Hearings

Table 1-1. Hearing Attendance and Oral Comments

Public Hearings	Attendance	Oral Comments
Richland, WA	55	76
Amarillo, TX	450	145
North Augusta, SC	963	48
Portland, OR	69	113
Idaho Falls, ID	26	56
Washington, DC	54	82
Total	1,617	520

Table 1-2. Document Submission Summary

Method of Submission	Documents Received
Hand-ins at public hearings	434
Fax	358
Mail	358
Postcards	2,234
Telephone	71
MD Web site (email)	34
Total	3,489

All comment documents and oral comments were then processed through the comment analysis and response system for inclusion in this Comment Response Document. Over 3,400 comment documents were submitted by various individuals and organizations on the SPD Draft EIS and 77 were submitted on the *Supplement*. Analysis of these documents and unique oral comments resulted in the delineation of approximately 4,800 and 340 comments on the SPD Draft EIS and the *Supplement*, respectively. Each comment was then assigned to a

specific issue category. Responses developed for each delineated comment are identified by a response code that corresponds to the coding on the scanned comment document image.

Comments determined to be beyond the scope of the SPD Draft EIS and the *Supplement* were forwarded to the cognizant DOE office for consideration, as appropriate. Comments relating to the costs of the alternatives described in the SPD Draft EIS or specifically to the cost report, *Cost Analysis in Support of Site Selection for Surplus Weapons-Usable Plutonium Disposition* (DOE/MD-0009, July 1998), were forwarded to the MD cost analysis team. The cost report and the *Plutonium Disposition Life-Cycle Costs and Cost-Related Comment Resolution Document* (DOE/MD-0013, November 1999) are available on the MD Web site at <http://www.doe-md.com> and in the public reading rooms at the following locations: Hanford Site (Hanford), Idaho National Engineering and Environmental Laboratory (INEEL), Pantex Plant (Pantex), Savannah River Site (SRS), and Washington, D.C.

1.2 ORGANIZATION

This Comment Response Document is organized into four chapters. Chapter 1 describes the comment analysis and response process, and Chapter 2, the changes made to this SPD Final EIS in response to public input and updated information. Chapters 3 and 4 present the scanned images of original comment documents and transcribed oral comments received during the public comment period for the SPD Draft EIS and the *Supplement*, respectively. The left side of the page is an image of the comment document marked with numbered sidebars to identify specific issues. DOE's response to each issue appears, correspondingly numbered, on the right side of the page.

The accompanying tables (Tables 1-3 through 1-8 and Tables 1-10 through 1-15) are designed to allow commentors to locate their comments regarding the SPD Draft EIS and the *Supplement* and DOE's responses to these comments. Commentors are listed alphabetically by last name or organization and grouped by State, along with the page number on which the comment document image and responses appear. A guide for locating specific comments and DOE's response is presented as Figure 1-2.

Documents identical in content are presented only once. Campaigns likewise are presented and responded to only once. However, campaign documents with additional comments were responded to separately. Commentors wishing to view comments and responses for specific issue categories should refer to Tables 1-9 and 1-16 for the SPD Draft EIS and the *Supplement*, respectively.

Appendix A is a copy of the transcript of an informational public meeting regarding the proposed use of MOX fuel which was sponsored by a South Carolina State Senator. This meeting, which was attended by DOE, was held during the comment period on the *Supplement*.

HOW CAN I FIND MY COMMENT AND DOE'S RESPONSE?

Note: Comment documents were assigned to a State based on the address of the commentor, a telephone area code, or the public hearing location.

For comments by members of Congress and Federal agencies:

Refer to Tables 1-3 and 1-10 for the SPD Draft EIS and the *Supplement*, respectively. These tables are organized alphabetically and grouped by State.

For comments by private organizations from foreign countries:

Refer to Table 1-11 for the *Supplement*. The table is organized alphabetically and grouped by country.

For comments by State and local officials and agencies and private organizations:

Refer to Tables 1-4 and 1-12 for the SPD Draft EIS and the *Supplement*, respectively. These tables are organized alphabetically by organization and grouped by State.

For comments by individuals:

Refer to Tables 1-5 and 1-13 for the SPD Draft EIS and the *Supplement*, respectively. These tables are organized alphabetically by the individual's last name and grouped by State.

For comments on multiple-signatory documents:

Refer to Tables 1-6 and 1-14 for the SPD Draft EIS and the *Supplement*, respectively. These tables are organized with individuals and organizations integrated alphabetically and grouped by State. A multiple-signatory document is one that has been signed by at least two individuals with different last names, and et al. is reflected in the image document heading.

For comments made at public hearings:

Refer to Tables 1-7 and 1-15 for the SPD Draft EIS and the *Supplement*, respectively. If you submitted a completed registration form, you can find your name under the appropriate hearing location. If you orally presented your views, then those views were summarized and are presented in this document. Similar views appear only once. These tables are organized by hearing location, with individuals and organizations integrated alphabetically.

For comments submitted as part of a campaign:

Refer to Table 1-8. This table sets forth the campaign subject and is organized alphabetically, integrating individuals and organizations. Every effort was made to decipher signatures, and those portions that were legible are included in the table. Unreadable names are accounted for under an "illegible" heading within the table. If you provided an additional, unique comment on a campaign document, that campaign document was treated as a separate comment and can be located in Tables 1-4 or 1-5. Signatories of the Statement of Nongovernmental Organizations on Plutonium Disposition submitted on the *Supplement* can be found attached to that statement.

Figure 1-2. Comment and Response Location Guide

Table 1–3. Members of Congress and Federal Agency Commentors by State

Commentors	Page
Georgia	
United States Senate, Honorable Max Cleland	3–3
United States Senate, Honorable Paul D. Coverdell	3–4
United States Senate, Honorable Paul D. Coverdell	3–5
United States House of Representatives, Honorable Charlie Norwood	3–6
United States House of Representatives, Honorable Charlie Norwood	3–9
Oregon	
United States House of Representatives, Honorable Peter DeFazio	3–10
United States House of Representatives, Honorable Elizabeth Furse	3–11
South Carolina	
United States Senate, Honorable Strom Thurmond and Honorable Ernest F. Hollings, United States House of Representatives, Honorable James E. Clyburn, Lindsey O. Graham, Bob Inglis, Mark Sanford, Floyd D. Spence, and John M. Spratt, Jr.	3–12
United States Senate, Honorable Strom Thurmond	3–15
United States Senate, Maury Lane for the Honorable Ernest F. Hollings	3–17
United States House of Representatives, Honorable Lindsey O. Graham	3–23
United States House of Representatives, Honorable Lindsey O. Graham	3–24
United States House of Representatives, Honorable Floyd D. Spence	3–25
United States House of Representatives, Honorable Floyd D. Spence	3–26
Texas	
United States Senate, Honorable Kay Bailey Hutchinson and Honorable Phil Gramm	3–29
United States House of Representatives, Honorable Mac Thornberry	3–31
United States House of Representatives, Honorable Mac Thornberry	3–34
Washington	
United States Senate, Honorable Slade Gorton	3–35
United States Senate, Honorable Slade Gorton, United States House of Representatives, Honorable Doc Hastings	3–36
Washington, D.C.	
United States Environmental Protection Agency, Richard E. Sanderson	3–38

Table 1-4. State and Local Officials and Agencies and Private Organization Commentors by State

Commentors	Page
Arizona	
GE Stockholders' Alliance, Patricia T. Birnie	3-54
Arkansas	
Arkansas Department of Finance and Administration, Tracy L. Copeland	3-61
California	
East Bay Peace Action, Dale Nesbitt	3-74
Colorado	
Rocky Mountain Peace and Justice Center, LeRoy Moore et al.	3-85
The Rocky Flats Local Impacts Initiative, Bob Dyer	3-90
Florida	
J.R. White Consulting, J.R. White	3-91
Florida Coastal Management Program, Chris McCay	3-92
Georgia	
Augusta Commission, Honorable Larry Sconyers	3-102
Augusta-Richmond County Legislative Delegation, Honorable Ben Allen et al.	3-110
Augusta-Richmond County Legislative Delegation, Honorable Jack Connell	3-111
Campaign for a Prosperous Georgia, Rita Kilpatrick	3-116
Citizens for Environmental Justice, Mildred McClain	3-119
Citizens for Environmental Justice, Mildred McClain	3-120
Georgia-Carolina Courier, Patricia C. McCracken	3-130
Georgia-Carolina Courier, Patricia McCracken	3-138
Georgia-Carolina Courier, Patricia McCracken	3-142
Georgia Department of Natural Resources, James L. Setser	3-148
Georgia State Senate, Honorable Charles Walker	3-177
Georgia State Senate, Honorable Charles W. Walker	3-178
Hyde Park and Aragon Park Improvement Committee, Inc., Charles N. Utley	3-189
International Brotherhood of Electrical Workers, T. S. Yarbrough	3-192
Lower Savannah Council of Governments, Honorable W. H. Burkhalter et al.	3-195
Lower Savannah Council of Governments, Honorable S. J. Robinson et al.	3-196
NSC Discovery Center, Inc, Phyllis H. Hendry	3-204
Sun Trust Bank, Bill Thompson	3-207
Idaho	
Brady's, C.A. Brady II	3-215
Citizens Advisory Board, INEEL, Charles M. Rice	3-216
Coalition 21, Lowell A. Jobe	3-227
Coalition 21, Lowell Jobe	3-229
Coalition 21, Richard Kenney	3-230
Illinois	
Peace Farm, Mary J. Nicholson	3-249

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Maryland	
Gary Research Operations Research, Robert Gary	3–257
Gary Research Operations Research, Robert Gary	3–262
Gary Research Operations Research, Robert Gary	3–265
Gary Research Operations Research, Robert Gary	3–268
Gary Research Operations Research, Robert Gary	3–271
Gary Research Operations Research, Robert Gary	3–276
Institute for Energy and Environmental Research, Anita Seth et al.	3–279
Maryland Department of the Environment, Steven Bieber	3–304
Massachusetts	
Massachusetts Citizens for Safe Energy, Mary Elizabeth Lampert	3–305
Michigan	
Algonac, Rose Ann Perricone	3–307
Berlin, Thomas R. Blouslh et al.	3–308
Brockway, Carl Vermeesch et al.	3–310
China, Julie Ann Wallace	3–311
Citizens For a Healthy Planet, Kathryn Cumbow	3–313
Citizens Resistance, Infirmy II, Michael Keagan	3–315
Clay, Jon E. Manos et al.	3–316
Clyde, Rebecca Yarr	3–318
Columbus Township Board of Trustees	3–319
East China, Sandra A. Smith	3–321
Emmett, Owen Kean et al.	3–323
Ira, John F. Jones	3–325
Marine City, Honorable Robert F. Beattie	3–327
Marine City, David Richards	3–328
Marysville, Sharon L. Schess	3–329
Memphis, Mary I. Brusca	3–330
Michigan House of Representatives, Honorable Karen Willard	3–331
Port Huron, Honorable Gerald “Ajax” Ackerman	3–333
Sisters, Servant of the Immaculant Heart of Mary, Martha Rabaut	3–335
St. Clair, Honorable Bernard E. Kuhn	3–336
St. Clair County, Lee Masters et al.	3–338
St. Clair Township, Joyce A. Skonieczny	3–339
Statewide Public Advisory Council, Kathy Evans	3–340
New Jersey	
New Jersey Department of Environmental Protection, Lawrence Schmidt	3–350
New Mexico	
New Mexico Environment Department, Gedi Cibas	3–354
New Mexico Uranium Workers, Paul Hicks	3–356
North Carolina	
Blue Ridge Environmental Defense League, Louis Zeller et al.	3–359
Blue Ridge Environmental Defense League, Louis Zeller	3–362

Table 1-4. State and Local Officials and Agencies and Private Organization Commentors by State (Continued)

Commentors	Page
North Carolina (Continued)	
Duke COGEMA Stone & Webster, Robert H. Ihde	3-366
Duke Power Company, K. S. Canady	3-372
Ohio	
STAND of Amarillo, Inc., Harriet Martin	3-388
Oregon	
Demain Inc. Investment Club, Rian T. Smith	3-402
Don't Waste Oregon Caucus, Lynn Sims	3-408
Don't Waste Oregon Caucus, Lynn Sims	3-420
Hanford Watch, Paige Knight	3-430
Oregon Health Sciences University, Martin Donahoe	3-444
Oregon Office of Energy, Mary Lou Blazek	3-445
Oregon Office of Energy, Michael Grainey	3-459
Public Safety Resources Agency, W.P. Mead	3-465
Woman's International League for Peace and Freedom, Barbara Drageaux	3-496
Pennsylvania	
Environmental Coalition on Nuclear Power, Judith Johnsrud	3-501
Women's International League for Peace and Freedom, Patricia T. Birnie	3-503
South Carolina	
Aiken, Honorable Fred B. Cavanaugh et al.	3-508
Aiken, Honorable Fred B. Cavanaugh	3-509
Aiken Chamber of Commerce, Teresa H. Haas	3-515
Aiken Chamber of Commerce, June Murff et al.	3-517
Aiken Chamber of Commerce, Jeff Spears	3-518
Aiken County Commission for Technical Education, Joe W. DeVore et al.	3-521
Aiken County Commission on Higher Education, Gasper L. Toole, III	3-522
Aiken County Council, Honorable Ronnie Young	3-523
Aiken County, South Carolina Legislative Delegation, Honorable Thomas Beck et al.	3-525
Aiken Regional Medical Centers, Richard H. Satcher	3-526
Allendale County Council, Honorable J.W. Wall, Jr.	3-527
Allendale County Chamber of Commerce	3-528
American Nuclear Society-Savannah River Section, John Dewes	3-529
Bamberg County Council, Honorable Jasper Varn	3-533
Barnwell County Chamber of Commerce, Dennis Hutto	3-535
Barnwell County Council, Honorable Harold Buchman	3-537
Barnwell County Council, Honorable Clyde T. Reed	3-538
Barnwell School District 45, James E. Benson et al.	3-541
Citizens for Nuclear Technology Awareness, Michael Butler	3-544
Citizens for Nuclear Technology Awareness, Michael Butler	3-558
Citizens for Nuclear Technology Awareness, Fred C. Davison	3-562
Citizens for Nuclear Technology Awareness, William C. Reinig	3-564
Economic Development Partnership, Fred E. Humes	3-573
First Baptist Church of Aiken, Fred W. Andrea, III	3-579
Greater North Augusta Chamber of Commerce, Chuck Smith	3-603
Greater North Augusta Chamber of Commerce, Chuck Smith et al.	3-604

Table 1–4. State and Local Officials and Agencies and Private Organization Commentors by State (Continued)

Commentors	Page
South Carolina (Continued)	
League of Women Voters of South Carolina, Mary T. Kelly	3–611
Lower Savannah Private Industry Council, Leo Cardin	3–616
National Association for the Advancement of Colored People, James Gallman, Sr.	3–626
North Augusta , Honorable Thomas W. Greene	3–628
North Augusta , Honorable Lark W. Jones	3–629
Nuclear Information & Resource Service et al.	3–632
R&H Maxxon, Inc., Tim Dangerfield	3–637
RadChemCo, H. Perry Holcomb	3–638
Savannah River Regional Diversification Initiative, Thomas J. Stone et al.	3–647
Savannah River Site Retiree Association, Tom Greene	3–648
Snelling, Honorable Tim Moore	3–649
South Carolina, Office of the Governor, Honorable David M. Beasley	3–651
South Carolina, Office of the Governor, Honorable David M. Beasley	3–653
South Carolina, Office of the Governor, Honorable David M. Beasley	3–654
South Carolina Treasurer, Richard Eckstrom	3–655
South Carolina Department of Commerce, Robert V. Royall	3–660
South Carolina Progressive Network, Bret Bersie	3–661
South Carolina House of Representatives, Honorable T. Scott Beck	3–662
South Carolina House of Representatives, Honorable Rudy Mason	3–666
South Carolina Senate, Honorable Brad Hutto	3–668
South Carolina Senate, Honorable W. Greg Ryberg	3–672
South Carolina Senate, Honorable W. Greg Ryberg	3–674
South Carolina Universities Research and Education Foundation, Constantine Curris et al.	3–676
Southeast Environmental Management Association, Carl A. Mazzola	3–678
SRS Citizens Advisory Board	3–680
The Pritchard Group, Constance J. Pritchard	3–681
Tri-County Economic Development Alliance, J. Calvin Melton	3–682
Tri-County Economic Development Alliance, Calvin Melton	3–683
United Way of CSRA, Keith Benson	3–685
Westinghouse Savannah River Company, Donald L. Speed	3–689
Westinghouse Savannah River Company, Richard Tansky	3–690
Westinghouse Savannah River Company, Fran Williams	3–692
Tennessee	
Tennessee Governor’s Office, Justin P. Wilson	3–699
Texas	
Amarillo, Honorable Dianne Bosch	3–713
Amarillo, Honorable Robert Keys	3–715
Amarillo, Honorable Kevin Knapp	3–717
Amarillo, Honorable Kel Seliger	3–719
Amarillo, Honorable Trent Sisemore	3–723
Amarillo Association of Realtors, Inc., Randy Jeffers	3–725
Amarillo Chamber of Commerce, David Wilks et al.	3–726
Amarillo College, M. Karen Ruddy	3–727
Amarillo College, M. Karen Ruddy	3–728
Amarillo Economic Development Corporation, Debra Ballou	3–730

Table 1-4. State and Local Officials and Agencies and Private Organization Commentors by State (Continued)

Commentors	Page
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Amarillo Economic Development Corporation, Michael R. Bourn	3-731
Amarillo Economic Development Corporation, Gilbert Guzman	3-733
Amarillo Economic Development Corporation, Glenn McMennamy	3-734
Amarillo Economic Development Corporation, George Raffkind	3-736
Amarillo Globe-News, Garet von Netzer	3-738
Amarillo Hispanic Chamber of Commerce, Gilbert Guzman et al.	3-741
Amarillo National Resource Center for Plutonium, Richard Hartley	3-742
Amarillo National Resource Center for Plutonium, K. L. Peddicord	3-743
Amarillo National Resource Center for Plutonium, Angela L. Woods	3-745
Battelle Pacific Northwest National Laboratory, Kimberly Baker	3-755
C&B Printing, Dennis Clouch	3-760
Carpenters Union Local 665, James N. Brookes	3-763
Cattle Company, Jay O'Brien	3-764
General Services Commission, Roger Mulder	3-774
General Services Commission, Roger Mulder	3-781
International Guards Union of America, Local 38, Randall Skinner	3-836
Jefferson Street Family Practice, PA , Elliot J. Trester	3-837
Maryknoll Education Center, Patricia Ridgley	3-849
Mason & Hanger-Silas Mason Company, Inc., Charles Elsea	3-850
Mason & Hanger-Silas Mason Company, Inc., William R. Henry	3-851
Mason & Hanger-Silas Mason Company, Inc., Scott	3-854
Mason & Hanger-Silas Mason Company, Inc., Leon E. Tomlinson	3-855
MRD Investments, L.L.C., D. Edward and Melva M. Davis	3-862
NUNN Electric Supply Corporation, Joe D. Brewton	3-864
Panhandle 2000, Jerome W. Johnson et al.	3-867
Panhandle Area Neighbors and Landowners, Doris and Phillip Smith	3-870
Pantex, Tim Flowers	3-874
Pantex, Jim Harbin	3-875
Potter County, Honorable Arthur Ware et al.	3-880
STAND of Amarillo, Inc., Don Moniak	3-908
STAND of Amarillo, Inc., Don Moniak	3-926
STAND of Amarillo, Inc., Don Moniak	3-929
STAND of Amarillo, Inc., Don Moniak	3-930
STAND of Amarillo, Inc., Don Moniak	3-932
STAND of Amarillo, Inc., Don Moniak	3-935
STAND of Amarillo, Inc., Don Moniak	3-938
STAND of Amarillo, Inc., Don Moniak	3-941
STAND of Amarillo, Inc., Don Moniak	3-942
STAND of Amarillo, Inc., Don Moniak	3-945
STAND of Amarillo, Inc., Don Moniak	3-947
STAND of Amarillo, Inc., Don Moniak	3-977
Texas, Lieutenant Governor, Honorable Bob Bullock	3-991
Texas A&M University, John M. Sweeten	3-992
Texas AFL-CIO, Joe D. Gunn et al.	3-997
Texas Building and Construction Trades Council, Gale Van Hoy	3-1000
Texas House of Representatives, Honorable John Smithee	3-1002
Texas House of Representatives, Honorable David Swinford	3-1004
Texas Radiation Advisory Board, Michael S. Ford	3-1005

Table 1-4. State and Local Officials and Agencies and Private Organization Commentors by State (Continued)

Commentors	Page
Texas (Continued)	
Texas Senate, Honorable Tom Haywood	3-1008
Texas Senate, Honorable John Hirschi	3-1010
Texas State Republican Party Platform, Richard L. Geddes	3-1011
The Center for Legal and Social Justice, Tadeo Spike Zywiski	3-1014
The Metal Trades Council of Amarillo, Texas and Vicinity, Ronald W. Zerm	3-1017
U.S. Army, Stacy R. Rusk	3-1020
Underwood, Wilson, Berry, Stein & Johnson, P.C., James W. Wester	3-1021
Wonderland Amusements, Inc, Paul D. Borchardt	3-1025
Virginia	
Virginia Department of Environmental Quality, Michael P. Murphy	3-1027
Washington	
Benton County	3-1034
Hanford Atomic Metal Trades Council, Keith A. Smith, Jr.	3-1052
Hanford Communities, Honorable Larry Haler	3-1055
Hanford Communities Governing Board, Honorable Larry Haler	3-1059
Pacific Northwest National Laboratory, Walt Apley	3-1079
Richland, Pam Brown	3-1084
STMC Sisu Technical and Management Consulting, Ronald C. Liikala	3-1089
Tri-City Industrial Development Council	3-1095
Tri-City Industrial Development Council, Sam Volpentest	3-1101
WA Mfg. Services, WSU-TriCities, William T. Sellers	3-1105
Washington, Office of the Governor, Honorable Gary Locke	3-1106
West Richland, Honorable Ken Dobbin	3-1107
West Richland, Honorable Jerry A. Peltier	3-1108
Washington, D.C.	
Natural Resources Defense Council, Thomas B. Cochran	3-1119
Nuclear Control Institute, Steven Dolley	3-1129
Nuclear Energy Institute, Felix M. Killar	3-1135
Nuclear Information and Resource Service, Mary Olson	3-1139
Nuclear Information and Resource Service, Mary Olson	3-1147

Table 1-5. Individual Commentors by State

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Arizona	
Birnie, Patricia	3-53
California	
Coops, Melvin S.	3-69
Ferrigno, James	3-77
R., P.A.	3-78
Colorado	
Anonymous	3-79
Hatfield, Scott	3-80
Lockhart, Wade	3-84
Smith, Frank W.	3-89
Georgia	
Arnold, Ed	3-101
Booker, Sam	3-112
Buss, Nancy	3-114
Calhoun, Emily	3-115
Gilkison, Joseph	3-179
Hardeman, James C., Jr.	3-180
Harrison, J. Larry	3-185
Ingham, Robert	3-191
King, Joan	3-193
King, Joan O.	3-194
Lowry, Greg	3-197
Lowry, Nancy J.	3-198
Milton, Larry	3-199
Noah, Christopher	3-200
Seward, Blake	3-205
Sherer, Cameron	3-206
Wilcox, Robert H.	3-208
Idaho	
Anonymous	3-211
Bonner, Scott	3-213
Freund, George A.	3-239
Fritzen, Mary Jane	3-241
Hampson, Walter L.	3-242
Rickards, Peter	3-245
Sutter, Thomas J.	3-246
Watanabe, Theodore	3-247
Indiana	
O'Neill, John	3-253
Louisiana	
Hummert, Vic	3-255

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Dudus, Mat	3–320
Gunter, Keith	3–324
Zolae, Greg	3–341
Missouri	
Hobbs, Amy	3–343
Nevada	
Bush, Michele	3–345
Devlin Sally	3–347
New Jersey	
Goodman, Sidney J.	3–349
New Mexico	
Albrecht, Kathryn	3–351
Albrecht, Kathryn	3–353
New York	
Bradford, Krista	3–357
North Carolina	
Hamill, Lisa	3–378
Ohio	
Cahall, Diana I.	3–381
Cahall, Diana I.	3–384
Oregon	
Anonymous	3–391
Anonymous	3–393
Anonymous	3–395
Anttila, Everett	3–396
Black, Gloria	3–398
Bryant, Sylvia	3–399
Butts, Nathan	3–400
Butz, Andrew D.	3–401
Demaria, Gregg	3–404
Ennis, Sara	3–422
Fallingstead, Joyce	3–424
Fennell, Loren	3–425
Frazier, Bruce	3–427
Gerould, Steven	3–428
Hamilton, Jessica	3–429

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Joslin, Rose Mary	3-437
Juergens, Kathleen	3-440
McLoughlin, Maura	3-441
Metrick, Nancy	3-443
Peck, Gerri	3-463
Peterson, Don	3-464
Reif, David	3-480
Scott, Courtney	3-484
Spurgeon, Nick	3-485
Tracy, Nancy Lou	3-486
Tracy, Nancy Lou	3-487
Ward, Lee Ann	3-491
Ward, Rayner	3-492
Warner, Mona	3-493
Whitney, Holly	3-494
Wood, Jane	3-497
Yazzolino, Brad	3-498
Pennsylvania	
Lewis, Marvin	3-502
South Carolina	
Adams, W. Barry	3-507
Anonymous	3-530
Anonymous	3-531
Balser, Richard	3-537
Burt, Charles	3-543
Corbett, Susan	3-566
Corbett, Susan	3-569
Corbett, Susan	3-572
Fidds, W. Glenn	3-578
Geddes, Richard L.	3-580
Gilbert, Claude, Jr.	3-597
Goergen, Charles R.	3-599
Goetzman, Rudy	3-601
Goldman, James	3-602
Hardison, Karen G.	3-605
Helms, Lois	3-608
Johnson, Stephen A.	3-609
Jordal, Jim	3-610
Martin, William H.	3-617
Mason, Corry E.	3-618
Mathews, R. S.	3-619
Mathews, Suzanne	3-621
McWhorter, Don	3-622
Minerd, Leslie	3-623
Murray, Alice M.	3-624
Randall, Bill	3-642

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Rodrigues, George C.	3-646
Warshauer, Meira (Maxine)	3-687
Williams, David	3-696
Zachman, George	3-697
Tennessee	
Walton, Barbara A.	3-710
Texas	
Andrew, Michael	3-746
Anonymous	3-747
Anonymous	3-749
Anonymous	3-750
Anonymous	3-751
Anonymous	3-752
Anonymous	3-753
Baker, Robert D.	3-754
Benzinger, Danielle	3-756
Buckenal, George	3-758
Buckenal, Patty	3-759
Campbell, Charles A.	3-761
Campbell, Helen	3-762
Chavez, Robert	3-765
Clemens, Carlton	3-766
Conklin	3-768
Daniel, Louise	3-769
Day, Helen C. and Joe R.	3-771
Day, Helen Charlene	3-772
Day, Rick	3-773
Dodson, Don	3-775
Dworzack, Sarah	3-776
Emery, Mary	3-777
Erwin, Inez	3-778
Graves, Dorothy	3-828
Green, Charles E.	3-829
Hemphill, David H.	3-830
Hernon, Donald	3-831
Hickman, Joyce	3-832
Hopps, Harvey B.	3-833
Hughes, Tommy and Dad	3-834
Johnson, J. P.	3-838
Johnson, Mina Fields	3-839
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Karrh, Robert	3-842
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Kopke, Mark	3-846
Ladd, Keena	3-847
Martin, Jerome B.	3-848
Maxie, Donald	3-856
McKeen, Sherry	3-857
McMurtry, Leroy	3-858
McWilliams, Steve	3-859
Metcalf, Stacy	3-860
Mills, Robin	3-861
Muna, Darlene	3-863
Osborne, Jeri R.	3-866
Pedigrew, Hal	3-876
Pluhar, Darwin and Jennifer	3-877
Proffitt, Gary	3-882
Ray, Don	3-883
Ream, Joe	3-884
Ream, Oleta	3-885
Rogers, Erin	3-886
Rogers, Erin	3-889
Russell	3-895
Sadesky, Ray	3-896
Schultz, Margaret	3-897
Seewald, William H.	3-898
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Shennum, Mary	3-900
Smith, Carol	3-901
Smith, Chuck	3-902
Smith, Ernestine	3-903
Smith, Jim D.	3-906
Sottile, Sam J.	3-907
Stanford, Claudia	3-988
Steiert, Jim	3-989
Whaley, Jan	3-1022
Wheeler, Carolyn	3-1023
Wolfe, Bill K.	3-1024
Washington	
Anonymous	3-1031
Anonymous	3-1032
Anonymous	3-1033
Briehl, Susan	3-1036
Chantler, Joan	3-1037
Condon, M.B., et al.	3-1041
Davenport, Leslie C.	3-1047
Giddings, Rochelle	3-1049
Haus, Barry	3-1063

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Washington (Continued)	
Holtz, Ted	3-1064
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Mary Olson	
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August 4, 1998—Richland, Washington (Hanford Site).....		
Afternoon Session		
Associated Press Linda Ashton	Munn, Wanda Nesary, Marlene	U.S. Department of Energy Scott Puris
Eckard, Connie	Pasco	U.S. Department of Energy, Richland Operations Office
FFTF Technical Support Stan Scott	Honorable Charles Kilbury Richland	Rodney A. Almquist Douglas H. Chapin George Dragseth Paul Dunigan Jr.
Hagan, James	Honorable Larry Haler	
HGO Enterprises Gai Oglesbee	Siemens Power Corporation Dan Nauman	U.S. Environmental Protection Agency
Hildreth, Norton	Sisu Technical and Management Consulting	Craig Cameron Dennis Faulk
ICF Kaiser Greg Clark	Ronald Liikala	
Moore, Roberta	Supply System Joe Burn	U.S. House of Representatives, Honorable Doc Hastings' Office Joyce DeFlice
Moore, Robert	Tri-City Herald	
Moore, Victor	John Stang	
Evening Session		
B&W Hanford Company George Kulynych Jim Steffen	Fies, Carl Hoyt, Richard	Tri-City Industrial Development Council Harold Heacock
Ballard, Del	JAI Corpaoration Donald Clark	U.S. Department of Energy, Richland Operations Office
Battelle Pacific Northwest National Laboratory Walter J. Apley Jerry Ethridge	Los Alamos National Laboratory Dennis Padilla Roger Wishau	Peter Knollmeyer Shivaji Seth
Bechtel Les Davenport	Merrill, David Oregon Office of Energy Douglas Huston	U.S. Senate, Honorable Slade Gorton's Office Suzanne Heaston
Burk, Linda	Siemens Power Corporation Ronald Heiks	Venez, Ted
DE&S Ralph Brackett	Supply System Joe Burn	West Richland Honorable Ken Dobbin Honorable Jerry Peltier
DESH, Inc. Jack Kalia	Szempruch, Rich	Williams, Richard
Eastern Washington Section American Nuclear Society Gerald Woodcock	Talbert, Robert	Wooten, David
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Afternoon Session		
Alpha Pavement Technology Incorporated Glenn Braudt Scotty Knutson	Amarillo Honorable Dianne Bosch Honorable Robert Keys Honorable Kel Seliger	Honorable Trent Sisemore Amarillo Association of Realtors Richard James Randy Jeffers

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Amarillo Chamber of Commerce	Battelle Pantex	Bruce Campbell
Joanne Brown	Kimberly Baker	Linda Cauffman
Belle Gage	Jeff Flowers	Selina Chaires
Jim Henson	Robert Foulston	Joseph Clark
Stacy Knight	J. Gantos	Charles Clinton
Gary Molberg	Barbara Nava	Doug Connally
Larry Stalcup	Belisle, Mavis	Charles Dodd
Diane Vincent	Carnes, Roberta	James Dronigo
Amarillo Economic Development Corporation	Claughton, J.C.	Randy Enger
Michael Bourn	Conklin, Danny H.	Gilbert Fajardo
Gilbert Guzman	Crafts, Clarence Rashada	Billy D. Faubion
Bob Juba	Don Harrington Discovery Center	Charlene Ferguson
Glenn McMennamy	Thomas Halliday	Johnny (Rick) Flores
Amarillo Globe-News	Exell Cattle Company	Lyle Fussell
Jim McBride	Lee T. Bivins	Pam George
Garet von Netzer	First Bank Southwest	Cynthia Gilbreth
Amarillo National Bank	Don Dodson	Kenneth J. Gomez
Jud Simmons	Will Miller	Michael R. Grusson
Amarillo National Resource Center for Plutonium	Joe M. Stange	Debra Halliday
Sandy Alvarez	Tommy Tyler	Phillip Halsted
David Barnes	Gray, David	Mike Haywood
Carl Beard	H. Lichte and Associates	Perry Hoag
Lois Cook	H.W. Lichte	J. H. Honea
Cathy Dixon	Hickman, Joyce	Dennis Huddleston
Richard Edmondson	Ivy, Deloris	Havon Knighton
Shirley Floyd	Ivy, Gordon	John F. Lemming
Debbie Frymoyer	Kaczmarek, Doris	Jarrell Long
Effie Harle	Keep Amarillo Beautiful	Penny Lucero
Richard Hartley	Dusty McGuire	Wally Moulder
Mark Hendricks	KFDA	Michael O'Connell
Robin Hightower	Sarah Fisher	Jimmy Phillips
Linda Peirce	Kraft, Trudy	Fred B. Ramirez
Beth Perry	Lehigh University	Ray Rusk
Leah Dawn Storey	Kenneth Kraft	David Smith
Christina Vincent	Machinist Union Local Lodge 1255	Sam Sottile
David Watson	John Taylor	April Stotts
Yvonne Weeg	Mason and Hanger Corporation	Paul Teichmann
Angela Woods	James Angelo	Julie Terry
Elda Zounar	Donnell Asberry	Willie Watson
American Real Estate Services	Gary Ashlock	William Weinreich
Cristal Robinson	Larry Backus	H. Anthony Woltermann
Ames, John	Curtis Broadus	Robin Woolsey
Ana-Lab, Keri Brigham	J.R. Buchanan	David Yeager
Angelo, Chris	Douglas K. Burton	Metal Trades Council of Amarillo
Angelo, LaDonna		Frank W. George, Jr.
		John F. Meese
		Metal Trades Department, AFL-CIO
		Gordon Baxter

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New Century Energies Dean Metcalf	Texas AFL-CIO Walter Hinojosa	University of Texas at Austin Alan Dutton Michael McNerney
Panhandle Chris Coffman	Texas Building & Construction Trades Council Gale E. Van Hoy	University of Texas System Dale Klein
Panhandle 2000 Randy Erben Brian Yarbrough	Texas Department of Health Gary L. Froemsdorf Joseph A. Martillotti	U.S. Department of Energy, Amarillo Area Office Vicki Battley Mark Blackburn B. Hollowe Jerry S. Johnson Tom Walton
Pantex Plant Citizens Advisory Board Sidney D. Blankenship Becky Lopez	Texas Department of Public Safety Tom Castleman	U.S. Department of Energy, Defense Programs Tracey Bishop
Parkrut, R.H.	Texas District Council of Carpenters James N. Brookes	U.S. Department of Energy, Federal Energy Technology Center Steve Cooke
Peace Farm Paula Breeding	Texas House of Representatives Honorable John Smithee	U.S. House of Representatives, Mac Thornberry's Office Clay Sell
Petraglia, Jeffrey	Texas House of Representatives, David Swinford's Office Jenette Taylor	West Texas A&M University B.A. Stewart
Plains National Bank-Amarillo George Sell	Texas Senate, Honorable Teel Bivins' Office Sharon Miner	Westar Trade Resources Cindy Thyfault
PNC Washington Takeo Kitazawa David Kornhauser	Texas Natural Resource Conservation Commission Brad Broussard George FitzGerald David W. Hastings Judy Headlee Shawn Hess Joseph Panketh Janet Pichette	Westinghouse Savannah River Company Gerald Hardin Blake R. Seward
Potter County Honorable John Stradley	Texas Radiation Advisory Board Michael S. Ford	Wonderland Amusements, Inc. Paul Borchardt
Purcell, Charles Rekdal, Sheila	Texas State Energy Conservation Office Venessa L. Gonzalez Roger Mulder	
Rivas Environmental Consultants, Inc. Charlie Rivas Jr.		
Ruddy, Karen		
Southwestern Bell Lew Bradshaw		
Southwestern Public Service Company Hermilo Martinez Jr.		
STAND-PANAL Jeri Osborne James Osborne		

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Amarillo Association of Realtors	Britten, Clifton	Lemming, Sandy
Raymond T. Fajardo	Bull, Cristi	Lockwood, Jeannine
Cindy Whitfield	Burke, Suzanne	Los Alamos National Laboratory
Amarillo Claim Service, Inc.	Campbell, Betsy	John Heneage
Amarillo Globe-News	Campbell, Carol Ann	Mason and Hanger Corporation
Jim McBride	Castleberry, D.	Sherri Acker
Amarillo High School	Cizan, Clifford	Mathe Altman
Matthew Johnson	Collins, Bettye	B.J. Anderson
Amarillo Independent School	Coppinger, Loretta	Laura Bailey
District	Crall Products, Inc.	Robert D. Baker
Helen Campbell	Daniel R. Walsh	Ronald Barker
Charles A. Campbell	Crown of Texas Hospital	Herbert S. Berman
Helen Charlene Day	Brandee Backus	William Bingham
Melinda Nakayama	Crumley, Martha	Sheila Black
Leta Nixon	Dillaha, Bobby	Randy Boone
Hanley Reynolds	Don Harrington Discovery Center	Alan Booth
Amarillo National Bank	Thomas Halliday	Kathy Brack
Jayne MiFather	Duncan, Bob	Leigh Bratcher
Amarillo National Resource Center	Duncan, Bettie Ann	Steven Briley
for Plutonium	Frying Pan Ranch	Susan Britten
Sandy Alvarez	Hackett, M.E.	James Brown
David Barnes	Harvey's Precision Body Shop	Nolan Brown
Carl Beard	Paul Elms	Christie Brown
Cathy Dixon	Harvey Elms	Richard Burke
Richard Edmondson	Hatfield, Roger	Vicky Lynn Caffee
Bill Harris	Hatfield, Rusty	Ramon Camarillo
Richard Hartley	Hernon, Donald	Scott Campbell
Mark Hendricks	Hispanic Chamber of Commerce of	Leonard Castellano
Angela Woods	Amarillo	Selina Chaires
Elda Zounar	Demetrio A. Quezada	Jesus S. Chavez
Archer, Johnell	Houser, James M.	Roger D. Chumney
Battelle Pantex	Houser, Denise	Glenn Cockrell
Tony Biggs	Howard Smith Company Realtors	Gary Cockrell
Mickey Brown	Carol Smith	Edgar J. Collier
Larry Damron	Hulquist, Jo Ann	Larry Collins
Jerome B. Martin	International Guards Union of	Michael Coppinger
Dave McBride	America, Local 38	Deborah Daniel
Inge O'Brien	Roger Lucas	Marilyn Daves
Gloria Reynolds	Kelly, Carter	David Daves
Lisa Vickers		Rick Day
Biddle, John		Carolyn Demerson
Boy Scouts of America		Tammy Denton
Christopher Carter		Carey Dickerman
Darren Haley		Alan Egoodkin
J. Whiserhurt		Inez Erwin
		Maria Fajardo
		Gilbert Fajardo

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Mason and Hanger Corporation (Continued)	Steven Larsen
Sarah Fansler	Louie Lincoln
Robert Farley	Janelle Loftin
Monte Ferguson	DeAnn Long
Gerald Findley	Jarrell Long
Michael Foster	Brandy Lyles
Jack Francis	Chris Lyles
Michael L. Fureigh	Jeff Manspeaker
James D. Gallagher	Glenda Martin
Frank Garcia	Daniel Martin
Jose Garcia	Kay Mask
Dale Garner	Richard Maxey
Pam George	Shane McFather
Sandy Gilmore	Brian McKnight
Denis Glasscock	Forrest McLaughlon
Kenneth J. Gomez	David Meyer
Kathryn Griffin	Erma Mitchell
Steve Hallett	Stephen R. Moore
Debra Halliday	Cathie Nall
Jim Harbin	Roger Nance
Cathie Harris	Darlene Nunn
Donna Hatfield	Michael O'Connell
Chris Herring	Johnny R. Painter
Charles Hills	Dudley Parker
J.D. Hinton	Ronnie Payne
Walter A. Howard	Casey Phillips
Richard Hulquist	Jimmy Phillips
Dave Humbert	Maurice Pierson
David Irons	Jane Pinkston
Jerry Ithaca	Raul Pompa
Shirley Jackson	Ruben Pompa
James Jay	Gary Proffitt
Robert Johnson	Cathy Prosser
Connie Johnson	Paul Ptashne
John Johnson	Lola Ptashne
Paul Johnson	Don Ray
Bruce Johnston	Denver Redwine
Troy E. Jones	J. Blair Rhodes
Francis R. Jones	Jeff Rices
Robert Karrh	Erin Richardson
Scott Kennedy	Allen J. Roberts
George Kenney	Rene Rodrigez
Heidi Kenney	Elizabeth Rodrigez
Jerry King	Edward D. Sain
Pam Klahr	Elvis Sain
Michael Knight	Ramon Saldana
Mark Kopke	Patrick Sanchez
Tyfani Lanier	Glvira Sanchez
	Lavon Sauage
	Mike Schmidt
	Daniel Schmitt
	Mark Self
	Joe Sexton
	Randall Skinner
	Mark Smith
	Chester Smith
	Richard Kevin Smith
	Paul Sowle
	Terry Spangler
	Walter Starr
	Susan M. Steen
	James Stevens
	Don Stratton
	Herald Summers
	Annette Teter
	Kevin Teter
	David J. Toledo
	Leon E. Tomlinson
	Dennis Trent
	Lisa Trevino
	Billy Tucker
	Manuel Vallassor
	Clyde J. Vanarsdall
	Linda Vickers
	Patricia Walsh
	Bob Wells
	Jan Whaley
	Lawrence V. Whicker
	Jerry Williams
	Howard Willis
	Wilbur L. Willson
	Gary Winters
	H. Anthony Woltermann
	Jeff Yokum
	Frank S. Zamora
	Darla Zerm
	Maxie, Donald
	Metal Trades Council
	Ronald Zerm
	Metal Trades Council of Amarillo
	Frank W. George Jr.
	Mills, Robin
	Nations Bank
	Dusti Bradstreet
	S. Gearn
	Neusch, Kevin

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Panhandle 2000 Randy Erben Brian Yarbrough	Richard Lee Joseph Panketh Janet Pichette	U.S. Department of Energy, Defense Programs Tracey Bishop
Papp, A.G. Petraglia, Jeffrey	Texas Radiation Advisory Board Michael S. Ford	U.S. Department of Energy, Federal Energy Technology Center
Quinto, Albert	Texas State Energy Conservation Office	Steve Cooke
Revell, Tim	Denise Brooks	U.S. House of Representatives Honorable Bob Inglis
Revell, Cathy	Venessa L. Gonzalez	
STAND of Amarillo, Inc. Allen Finegold Don Moniak Billie Poteet	Roger Mulder Thompson, L. O'Brien Trovino, Edward	University of Texas at Austin Alan Dutton Westinghouse Savannah River Company
Stewart Title Conny Sain	Tucker, Lynnette	Gerald Hardin Jerry Hardin Blake R. Seward
Texas A&M University Ian Hamilton Kenneth L. Peddicord	U.S. Department of Energy, Albuquerque Operations Office Richard Sena	Winters, Rosemary
Texas Department of Health Gary L. Froemsdorf Joseph A. Martillotti	U.S. Department of Energy, Amarillo Area Office Mark Blackburn	Zamora, Luis Zamora, Gilbert
August 13, 1998—North Augusta, South Carolina (Savannah River Site).....3-1261		
<i>Afternoon Session</i>		
Aiken County Linda B. Eldridge	American Express Financial Advisors John J. S. Mead	Jasper B. Varn Jr. Bamberg County Department of Social Sciences
Aiken Standard Craig Gibbs	American Nuclear Society- Savannah River Section John Dewes	Patricia Williams
Aiken Technical College Don Campbell Howard Lobaugh Dennis C. Rogers James A. Schmidt Lynne Weldon Carolane Williams	Asbestos Workers Raymond Storey Augusta Tomorrow, Inc. Charles A. DeVaney	Barnard, Jr., Doug Barnwell Albert Black
Allendale Chamber of Commerce Joseph Vuknic	Azzaro, Karen B&W Savannah River Company Timothy C. Marks	Barnwell City Council Benjamin Duncan
Allendale County DSS Linda H. Brigman Christi Kirkland	Bamberg City Development Association, Inc. Mary O. Olson	Barnwell County Harold Buckmon Inez Collins Debra D. Fickling Vernon F. Grady W. A. Gripp Clyde T. Reed
Allendale County, Chamber of Commerce Anne Rice	Bamberg County Council Isaiah Odom	Barnwell County Chamber of Commerce Dennis Hutto

Table 1-7. Public Meeting Attendees by Location (Continued)

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Richard Lamar	Buding, Tam	Economic Development Partnership
Cathie Lynn	Camiser Corporation	Ernie Chaput
John H. Mole	Bryan Kane	Edward Jones & Co.
Barnwell County Council	Campaign for a Prosperous Georgia	Chuck Smith
Flowe Trexler	Rita Kilpatrick	Ehrhardt, William Edinger
Barnwell County Economic Development Commission	Campbell, Jean	EXCESS Facilities
Trevor Hamilton	Chem-Nuclear Systems	Tim Holloway
Barnwell School District 45	Francis Flynn	Fenstermacher, David K.
Valenda Black	James Latham	Floyd, Greg
Beatty, James N.	Cherry, Dorothy	Food Not Bombs
Bechtel Savannah River, Inc.	Christman, Wayne	Budd North
Thomas Ballweg	Citizens for Nuclear Technology	Foster, William
Douglas Barclay	Awareness	Fowke, James
Frank Berry	Michael Butler	Frontroth, Ronald
Wayne Buxton	Arthur S. Greer	Geddes, Danny
Joseph Conway	John Lindsay	Geddes, Catherine
G. P. Crowell	William C. Reinig	Geddes, Richard L.
Roger E. Davis	Clemson Extension Service	Gilbert, Lee
Gary Feenstra	Terrell S. Smith	Gilkison, Joseph M.
Craig Hamilton	Clyburn, William	Goetzman, Rudy
Gordon A. Johnson	Collins, Bennie	Graham, Lindsey
Robin MadisonBechtel Savannah River, Inc.	Collins, Willie C.	Gray, Peter
Zane Madtes	CSRA Community Foundation	Green's Christian Bookstore
Freddie McCrary	R. Lee Smith Jr.	Levi Green
Richard H. Moore, Sr.	Cude, Bonnie	Grosso, Vincent
Victor Navarro	Denmark Technical College	GSUGANE
Brenda Reed	Ambrish Lavanic	David McBride
Isaac L. Rucker	Department of Social Services	Harbour, John
Paul Ryan	Wade Delle S. Moody	Hatcher, Martha
Ronald M. Simpson	Duane, John	Haynes, Benjamin
Scott Valentine	Duke Energy Corporation	Haynes, Alice A.
Steve Welch	Robert Van Namen	Hensley, Sr., George A.
Bertsch, Lynn	Duke Engineering and Services	Herrera, Ruth
Black, John	Christy Phillips	Herrera, Henry
Blackville, Joan McDonald	Robert Sharpe	Herrmann, Jack
BNFL, Inc.	Dukes, Michael	HJG, Inc.
Brent Daugherty	DuPont Savannah River Plant	Harry Groh
Stuart A. Kidson	Harold M. Kelley	Holcomb, Perry
Richard Seaborn	E. Blackburn Construction Co., Inc.	Holtzscheiter, Bill
Boettinger, William	Ernie Blackburn	
Booher, Sam W.	Ebra, Martha	
Brown, Larry		
Brownawell, Jerry		

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<i>Afternoon Session (Continued)</i>		
Howard Lumber Company	Moore, Jacqueline	Sadowski, Ed
William Fair	Moore, Ann F.	Savannah River Diversification Initiative
Chuck Renfro	Morin, Annette	Lewis C. Attardo
Ed Selby	Murray, Alice	SCANA
Howell, Lee	NAC International	Keith Coones
Hudspeth, Jan	John Patterson	Schumpert, Marty
IBEW Local Union 1579	Nations Bank	Sconyers, Honorable Larry
Mike Greene	Mark Wills	SDT
International Union of Operating Engineers	Noah, Christopher	Henry Dingfelder
Russell N. Britt	Norris, Jan	Shedrow, Clayton
JHW International Corporation	North Augusta	Silver Leaf Construction
John H. Walker	Deloris Bodie	Dave Zimmerman
Johns, John	Lark Jones	Small Business
Johnston, Dean Campbell	Charles B. Martin	Robert Moody
Jones, John	Ken McDowell	Snelling, Honorable Elbert T. Moore
Jones, Paul B.	North Augusta Chamber of Commerce	Snyder, Terri
Kvartek, Ed	Lisa McElmurray	Software Solutions
Laborers International Union of North America	Briton Williams	John Gravelle
Clayton L. Plemmons	Olson, Charles	Somers, Edward
Law Office of Maria Reichmanis	ORA	Sonnenberg, Les
Maria Reichmanis	John Felak	South Carolina Department of Health and Environmental Control
Lawrence Livermore National Laboratory	Overman, Robert F.	Sandra
Thomas Gould	Paisley, Colleen Ackles	South Carolina House of Representatives
League of Woman Voters	Patton, Sonya	Honorable Wilbur Cave
Robert Kelly	People Sentinel	South Carolina Senate
Mary T. Kelly	Victor Hill	Honorable Brad Hutto
Local 283 Carpenter and Millwright	Polar Refrigeration	Honorable W. Greg Ryberg
Thomas H. Jenkins	Shannon Bohanan	Honorable J. Roland Smith
Los Alamos National Laboratory	Power Reactor and Nuclear Fuel Development Corporation	South Carolina State Treasurers Office
Thomas J. Farish	Hironobu	Richard Eckstrom
Madison, Michael	Randall, Bill	Spiker, Dyrke L.
Mason, Rudy	Randall, III, Boyd D.	SRP Federal Credit Union
Metro Augusta Chamber of Commerce	Reda, Louis	Gloria Greer
David Bell	Rice, Maurice	SRS Citizens Advisory Board
James West	Richmond County Health Department	Thomas W. Costikyan
Metropolitan Spirit	Danny Starling	Suzanne Matthews
Brian Neill	Roberts, John	Lane Parker
Milnes, Michael	Rogers, Bernice	
Moliassa, Richard	Rudisill, Tracy	

Table 1-7. Public Meeting Attendees by Location (Continued)

Affiliation/Attendees		Page
August 13, 1998—North Augusta, South Carolina (Savannah River Site)		
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SRS Retiree Board of Directors Dannie F. Walker	U.S. Senate, Honorable Max Cleland's Office	Michael Burch Paul Burket
Stephens, Kenneth W.	Scott MacGregor	Esther Burnham
Stone, Rick	U.S. Senate, Honorable Paul Coverdell's Office	Charles Burp Alan Busby
Stone & Webster Engineering Corporation Carl A. Mazzola	Donald R. Stewart	David Busch Sheryl Bush
Street, Gary H.	Vaneman, Nancy	William Busser
Sumner, Wallace	Vargo, Michael S.	Tom Butcher
Sun Trust Bank Bill Thompson	Verenes, John C.	Charles Camino Michael Carlson
SWD, Bruce Saxman	Walter, Steven	Muriel B. Carter
SWM, Ralph Poling	Westinghouse Savannah River Company	Randall Cash Diane Cato
Terrell, George	Lance Abbott	Terry Chalk
The Advertiser Herald Jerry Dugan	Gary Abell	Randolph M. Clarke
Thomas, Steven	Frederick Adams	Dan Clayton
Thomas, Susan	Frances Alston	Carl E. Cliche
Tri-County Alliance Gretchen Birt	Joseph Amari	Joseph Cohen
Donnie Delk	Trent Andes	Barry L. Coleman
Jim Kearse	Ken Ashman	Mary Coleman
Carl L. Kilgus	Kirsten Aylward	Robert Collins
Calvin McHon	Richard Balsler	Sally Comer
Clarence Wright	Jeff Barnes	Calvin L. Cooks
Tritium Maintenance DP Stacey Towner	Dewey E. Barnes	Barry Cooper
Unitarian Universities Fellowship of Columbia, SC	James Barry	Ed Corley
Susan Corbett	Carol Barry	Hank Cormany
United Way of the CSRA, Inc. Keith Benson	Patricia Baughman	George Cox
U.S. Department of Energy, Federal Energy Technology Center	Douglas Bevard	Phillip Croll
Jason Lewis	Prakash Bhende	Benjamin J. Cross
U.S. Department of Energy, Savannah River Operations Office	A. Bruce Bieling	Steve Crossland
Jose Blanco	Linda Blackston	Andy Cwalina
Sonita Blanco	Richard Blaine	James Davis
Francis A. Bolton	Allen L. Blancett	Harendra G. Desai
Craig Czuchna	Lynn Bouknight	John Dickenson
Dave Hepner	Keith M. Boyle	Pat Dominey
Sherry Southern	Carl Bradford	John P. Duane
Zaddie R. Wilkins	Toni Brantley	Erich Duhn
	Linda Bridgmon	Kenneth M. Dukes
	Robert Bromley	Charles R. Dynarski
	Brad Brooks	Eddie Eddins
	James Broome	Roger Elmgreen
	Douglas Brown	Richard Emerson
	David Brown	Debbie Etheridge
	Cindy G. Brown	John Fertic
	Rodney Brown	Dennis A. Fludd
	Wes Bryan	Lynn Forrester
	Willie J. Bryant	Victor Franklin
	James Buchanan	Derriel E. Frazier
	James Bukovitz	

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Westinghouse Savannah River Company (Continued)	James R. Kramer	Mike O'Rourke
Lawrene G. Frelin	Ronald Kuhn	Ron Oprea
Marsha Furness	Malcolm Kyle	Eric Oser
Jennifer Garvin	James Lander	Constance M. Paino
Wilbur R. Gay Jr.	Kenneth Lane	Brenda Pearson
Melanie Gibson	Barry Langford	Wayne Peltay, III
Brian Givens	Bruce Lawrence	Ted Pennington
John Gladden	Mark Lindholm	R.S. Peters
Charles R. Goergen	Stanley Lipman	Furman Peters
Wayne Good	Steve Losgar	John M. Phillips
Talmadge H. Goodwin Jr.	Christopher Lwesi	Terry Pifer
Susan Grant	Sharon Lybrand	Thomas P. Powell
Ashley Griffis	E. Paul Maddux	Timothy H. Pratt
David Grimes	Robert Maher	Lessie B. Price
John Gunther	Jerry O. Marshall	Donald A. Pushman
Mary A. Gunther	Craig L. Martin	Bob Rabun
Steve Haines	Kenneth Martin	Margaret Rackliffe
Jerry C. Hair	Lynn Martin	Terry Rahm
C.G. Hardin Jr.	William Martin	Cleo Raiford
Mike Harrell	Charles Mastromonico	Thomas Riedl
Gordon Hart	Glenn Mathues	Napoleon Roberson
Charles F. Hatcher	R.S. Matthews	Cheryl Robinson
Monte Hawkins	Susan H. Maxwell	Anil Rode
Ava Hawkins	Edward Mayo	Philip Rodwell
Dawn Haygood	Walter J. McCain	Michael Roper
Julianna U. Hearn	Dan McCurry	David Rose
Ellen Heavner	David D. McGee	Shamain Rosenberg
James T. Herrin	J. Malvyn McKibben	Dennis Rote
Garth Hewlett	Duane McLane	Linda Rudd
Richard Hodson	Donald L. McWhorter	John Runnels
Robert Holler	Robert Meadors	Rick Runnels
Rosemary Holley	Jon Meier	Ronald M. Schroder
Laurie J. Hollick	Don Miller	Austin B. Scott
Charlotte Holly	Larry Milton	Betty Scott
Robert Hotter	Robert Minnick	John R. Sessions
Mark Hubbard	Lani Miyoshi	Thomas F. Severynse
Raymond Hunnicutt	Rod Mohammadi	Blake R. Seward
Kevin R. Jones	Mark A. Moody	Deborah Shedrow
Robert Jones	Jackson Moohy	David Shiplett
Clay Jones	Pat Morgan	James F. Smith
Timothy M. Jones	Richard M. Morris	Jeffrey A. Smith
Gregory Jones	Allen J. Morris	Hugh E. Smith Jr.
Larry R. Jones	James Morris	William K. Sokolo
John Jordan	Stephen Mundy	William Stevens
Wanda Joyce	Ted A. Myers	Renee Stewart
Jim Junker	Edie Nicholson	Charles Strain
Charles Kears	Charles Nickell	Eugene Strycula
Joseph Kelley	A.W. Nutt	Kent Sullivan
Phillip Kenhlen	Jerry O'Leary	Michael Swain

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August 13, 1998—North Augusta, South Carolina (Savannah River Site)		
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Westinghouse Savannah River Company (Continued)	Donna Moore Wesby	Williams Farm & Garden Center, Inc.
Richard R. Tansky	Quitman White	Frank Williams
Dennis Taylor	Valerie Whitehead	Williston
C. W. Thiessen	Thomas L. Williams	Michael Benjamin
Liz Thomas	Fran Williams	Richard Neely
Perry Thomas	Dean Williams	Thomas R. Rivers
Dennis Thompson	Robert Williamson	
Donna Tipton	Steve Willingham	Windsor
Frank Utsch	David Wilson	Frank Mizell
William B. Van Pelt	Walter Wilson	Witters, John M.
Ike Vaneman	Steve Wilson	Wood, Don E.
John P. Veldman	Calvin D. Wilson III	WSMS
Donna Waddington	Clinton Wolfe	Jay Thompson
Robert Walker	Jerry Wood	Zehr, Carl W.
Don Waters	Gary Zimmerman	Zigelman, David
L. C. Watson	Weymond, Henry C.	
Don Weathersbee	Whitmire, Dan	
<i>Evening Session</i>		
Adkins, Doug	Beaumier, Glenn	P. A. Smith
Aiken	Beaumier, Katherine	Ricky Smith
Michael Anaclerio	Bechtel Savannah River, Inc.	David Sullivan
Aiken Chamber of Commerce	Douglas Barclay	Denis Thomas
June Murff	Cassandra Bayer	Keith Thomas
Aiken County Council	Gerry Blume	Lee Wade
Ronnie Young	John C. Chatten	George Walden
Aiken County Council District 5	Marie Coleman	Ronald Walker
Dale Stephens	Willie Dominguez	John Wall
Aiken County Tax Assessor	Cecil Faircloth	Clary Williamson
Ida M. Jenkins	James Fay	Kevin Wilson, Sr.
Aiken Electric Cooperative, Inc.	Randall Forty	Ted Wineteer
Barry Glover	Mansoor M. Ghassem	Roger and Darlene Yancey
Aiken International Club	Tony Green	BNFL, Inc.
George Clare	Gregory Grenier	Pamela DelCastilho
Aiken Regional Medical Centers	Herbert L. Jackson Jr.	John Rovansek
Richard Satcher	Louis Jones Jr.	Bowman, Tommie
Armitage, Charles	Richard E. Lackey	Boyd, Robbie
Asbestos Workers	Mike Lewis	Brigham, Patricia
Raymond Storey	Ed Manning	Brigham Properties LLLP
Ashworth, G. J.	Terry McNew	Lee Brigham
Augusta-Richmond Co.	Steve Miller	Brigham Properties, Inc.
Moses Todd	Bill Miller	William B. Brigham
Ballweg, Gearin	Sheryl Neal	Burns, Dan
Beaumier, Cynthia	Kathryn Norman	Burrus, George
	Babubhai Patel	
	Wilburn C. Sanders	
	James Shaver	
	Charles Smith	

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Citizens for Nuclear Technology Awareness	Holmes, Frank W.	Khan, Ibrahim
Susan Cathey	Howard Lumber Company	King, Henry
Vincent C. Minardi	Donna H. Montgomery	King, Sue
John W. Paveglio	Hozey, Melanie	Knick, Joseph
Colclough, Wes	Hyde Park & Aragon Park Improvement Committee, Inc.	Kohl, Marilyn
Cook, Rich	Charles N. Utley	Kohl, James A.
Coral, Barbara	Demetria Utley	Laborers International Union of North America
Cordani, Robert	Hyde Park Committee	Edward E. Floyd
Dabrowski, Jan	Melvin Stewart	Lex, Thomas
Daniels, Janice	IBEW Local Union 1579	Local Union 1137
Drown, Wayne	Morris Beard	Moses Dumm
Duke Energy Corporation	Samuel Blythe	Lillie Mae Jones
Robert Van Namen	Richard Brown	Local Union 1137 (Laborers Training Center)
Duke Engineering and Services	Johnny Drake	Fred V. Truitt
Christy Phillips	Edward Dukes	Local Union 283
Robert Sharpe	Rodney Dye	Don Solki
Edenfield, Nancy	Danny Fincher	Los Alamos National Laboratory
Edward Jones & Co.	Mike Greene	Thomas J. Farish
Chuck Smith	Stanley Hampton	Lower Savannah Council of Governments
Elkins, Bill	Henry A. Hayden	Eric P. Thompson
Elkins, Susan	Johnny L. Jones	Lowry, Nancy
Eubanks, Carnell	Curtis A. Lockamy Jr.	Lowry, Greg
Fernandez Consulting	Raven V. Mason	Maiden City LLC
LeVerne P. Fernandez	James Rowell	Chris Baker
Fields, Betty	Anthony Ruvo	Malloy, Sondra
Flora, David	William Shoaf	Martinez Elementary School
Flora, Mary	Jay Veal	Lauren B. Williams
Geddes, Danny	Annette Veal	Matthews, Bob
General Physics	Thomas S. Yarbrough	McDaniel, Jeanne
David E. Neal	Ihnen, Menard	McQuinn, Mary
Gilkison, Joseph M.	Ingham, Robert	McQuinn, R.L.
Goldman, Barry M.	International Association of Heat and Frost Insulation	Medical University of South Carolina
Goldman, James	Dale R. Cullum	Seymour Baron
Gouker, Larry L.	International Brotherhood of Teamsters	Messick, Russ
Grefenstette, Paul	Marion Davis	Miles, Frankie
GTS Duratek	International Union of Operating Engineers	Miller, Ralph S.
James Pope	Russell N. Britt	Miller, Judi
Hall, Joe	Jenkins, Arthur	
Harrington, Cathy	Johnson, Tommie	
Heffner, James	Kay, Virginia	
	Kellner, Cindy	

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William D. Erwin	Edward F. Johnson	Suzanne Messick	
J. Stuart Evans	Michael D. Johnson	Larry Milton	
Scott Federman	Patricia Johnson	Mose Mims Jr.	
James Ferrell	Stephen A. Johnson	William T. Mitchell	
Glenn Fields	Todd Jones	R. Mike Mobley	
Tim Flake	Robert Jones	Andy Mock	
Sam Formby	Calvin Jones Jr.	Tim Moore	
Thomas Foster	Jim Jordan	Jerome Morin	
Geoffrey Fountain	Kirit Joshi	Richard M. Morris	
Kenneth Franklin	Michael Kaplan	James D. Moss	
Thomas J. Friel	Asa Kelley	David M. Mutos	
Richard Frushour	Robert Kellner	Audrey Ogletree	
Steve Glover	Albert Kennedy	Ted Padezanin	
Charlene Goodman	John Keyes	Patricia Padezanin	
Susan Goodwin	Stephen King	A. N. Padgett	
Al Goodwyn	Paul Korinko	Marvin Peake	
Donald Gordon	Ki Kwon	Steven Pinion	
John Greenquist	Edward Kyser	C. J. Plummer-Wooley	
Phillip Griffith	Charles Lampley	Peggy L. Plyler	
Freddie Grimm	Susan Lance	Carol Polson	
Joel Guilherme	Larry G. Lawson Jr.	David Poss	
Surendra K. Gupta	Daniel Leduc	Dave Potocik	
Apjinder Guram	Edward Leibfarth	Bill Poulson	
Elizabeth Hackney	Andrew Lesko	Ken Powell	
Donnie Hall	Karen Lesko	Chandra Prakash	
Gary C. Hamm	David B. Little	Harriet Priester	
Harvey Handfinger	Susie Littrell	Richard Proctor	
Hextonia Harden	Carla Loffin	Harry Pund	
James L. Hardin	Doug Lowry	Rodney Rabon	
C.G. Hardin Jr.	Chris R. Loyal	Kenneth L. Ramsey	
Archie Hargett	Larry D. MacLean	Brent Rankin	
Tim Harrington	Irwin Magerkurth	Robert & Betty Rapp	
Robert Harris	Gerald Malloy	Alan Reed	
Larry Harrison	Sharon Marra	Donald Reese	
Tim Hasty	James Marra	William Rigot	
Barbara Headrick	Hollis L. Martin	Thomas F. Ritt	
Bruce Hewett	William H. Martin	Jerry D. Roberts	
James O. Hightower	Lynn Martin	Johnny Robertson	
Carl Hirst	Matthew Maryak	Thomas C. Robinson	
Cynthia Holding-Smith	Robert C. Mason	George C. Rodrigues	
Charlotte Holly	R.S. Matthews	Doris Rouse	
Claudette P. Hopkins	William Mattocks	Kenneth Rueter	
Richard Hopkins	Teresa A. Mayfield	Ed Russell	
William Huiet	James McClard	Nader Sadri	
Francis T. Iwuc	Martin McCrom	Charles Sanders	
Al R. Jeffront	Terry McLane	Roland W. Sasser III	
Jerrel Jernigan	Dwain G. McMullin	Mark Schmitz	
Alfred T. Johnson	Donald L. McWhorter	Al Scott	
	Betty Meadows	Patricia Scott	

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Westinghouse Savannah River Company (Continued)	Jimmie Stuberfield Kent Sullivan Randall W. Tatum Gregory D. Teese Kevin Tietze Stacey J. Timmerman Leonard L. Trasko Michelle Trill Dave W. Tuttel Tom Varallo Clarence Ward Clyde Ward Woodrow Ware Marilyn Ware William F. Ware John R. Wehr Roger M. White Anatia Whittenburg	Patricia Wiley Lester Wiley Jr. Steve Wilkerson Fran Williams David Williams Robert Wilson James Wong Keith Wood Susan Wood G. Todd Wright Henry I. Yamamoto Reuben Yon Robert M. Young Robin Young George Zachmann James Zumwalt Yarbrough, Helen	
August 18, 1998—Portland, Oregon (Hanford Site).....			3-1279
<i>Afternoon Session</i>			
Anttila, Everett Bechtel Les Davenport Boston University/Portland State University Victor Nguyen Broderick, John Cobo, Ted Crackerjacks Marketing David Milholland	Don't Waste Oregon Lynn Sims Germond, Norma Jean Gray Panthers Gerri Peck Hanford Watch William Bires Heart of America Northwest Paige Leven Lodwick, R.	Oregon Office of Energy Michael Grainey Steven Sautter Pierce, Allen Supply System Joe Burn U.S. Department of Energy, Chicago Operations Office Bob Selby	
<i>Evening Session</i>			
Bechtel Les Davenport Butz, Andrew Butz, Nathan Currie, Ruth O. Dean, Alison Demaria, Gregg Dim, Everett Don't Waste Oregon Kathryn "Cherie" Holenstein Ferguson, Roger	Grubmil, Ffej Hanford Action of Oregon Terry Hammond Chuck Johnson Robin Klein Hanford Advisory Board Dick Belsey Hanford Watch James Baldwin Owen Lindsay Lynn Porter David Reif	Hansen, Robert Hysko, David Juergens, Kathleen King, Jame Laughing Horse Collective Rayner Ward Lichtenwald, Daniel Markowitz, Sally McAdams, Paul McCarty, Mary	

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McLoughlin, Maura	Portland Cable Access TCI	U.S. Department of Energy,
Mitchell, Phil	Carolyn Brunett	Chicago Operations Office
Muller, Patricia	Portland Critical Mass	Bob Selby
Murray-Hanson, Sheryl	Aaron VanDerlip	U.S. House of Representatives,
Nickum, Helen	Catherine Ward	Honorable Elizabeth Furse's Office
Norton, Patrick	Priebe, Millie	Ann Richardson
Oregon Office of Energy	Public Safety Resources Agency	Whitney, Holly
Dirk Dunning	W.P. Mead	Wilkins, David
Douglas Huston	Rainbow Family of Light and Love	Woman's International League for
Oregon Peaceworks	Riggs, Doug	Peace and Freedom
Claire Closmann	Robindottir, Jody	Barbara Drageaux
Peterson, Don	Russell, Robert	Betty June Marsh
Playford, Kristin	Scott, Courtney	
August 20, 1998—Idaho Falls, Idaho (Idaho National Engineering and Environmental Laboratory).....		
		3-1323
<i>Afternoon Session</i>		
Argonne National Laboratory-West	Jensen, Aroid	University of Idaho
Roger D. Haga	Jobe, Lowell	Maxine Dakins
Richard Lindsay	Lawrence Livermore National	U.S. Department of Energy,
Grant C. McClellan	Laboratory	Chicago Operations Office
Bacca, J. Paul	Melvin S. Coops	William A. Parmley
Coalition 21	Lockheed Martin Idaho Technology	U.S. Department of Energy, Idaho
George Freund	Company	Operations Office
Richard Kenney	Roger Henry	William H. Thielbahr
Coalition 21 and American Nuclear Society	Julie Merrill	Watanabe, Theodore
John C. Commander	Los Alamos Technical Associates	
Fritz, Mary Jane	Roger Mayes	
Institute for Energy and Environmental Research	Rickards, Peter	
Hisham Zerriffi	Snake River Alliance	
	Beatrice Brailsford	
<i>Evening Session</i>		
Coalition 21	Hampson, Walt	U.S. Department of Energy,
George Freund	Jobe, Lowell	Chicago Operations Office
Darnell, G. Ross	SAIC	William A. Parmley
Duke Engineering and Services,	J. D. Atkinson	Westinghouse Savannah River Co.
Toney Mathews	Jerry Hardin	Jerry Hardin

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PIA Insurance Agency, Inc. R. N. Burks Pat Conley	Al Cunningham Maxey Dodson Gram Smith	
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Abell, Jane	Kroeger, Janet	Seewald, Katherine
Anonymous	Lebow, M.	Seewald, William Hughes
Artho, Edward and Virginia	Lebow, Sherri	Shennum, Mary L.
Atkerson, J. B.	Lippmann, Otto	Smith, Doris B.
Barclay, Gary L.	Locke, J.	Smith, Ernestine
Berg, Ruth Ann	Mathern-Jacobson, Scott	Smith, Greg and Michelle
Berry, Rick	Miller, Genevieve O.	Smith, Phillip
Black, Carla	Miller, Virginia M.	South Dakota Peace and Justice Center
Charless, Jr., Addis	Murphrey, David	Jeanne Koster
Clark, Robert A.	Murphy, J.	Stein, Janie
Clopton, Jim	Neusch, Gayle	Sull, Mary
Cole, Leslie	Newburg, Madonna E.	The Center for Legal and Social Justice
Cook, Jeanne W.	Newell, Virginia M.	Tadeo Spike Zywicki
Doyle, Christella W.	Office of the Americas	Torczon, Mary Jo
Duncan, Dorothy	Blasé Bonpane	Wadley, Robert Burns
Egbert, Lawrence	Owen, Weslie B.	Wancura, Marianne S.
Everett, Mike	Peace Farm	Warden, Dolly
Garcia, Danna and Bennie	Mary J. Nicholson	Warrick, J. E.
Gramstorff, Jeanne B.	Pluhar, Darwin and Jennifer	White, Jack W. and Betty E.
Hajeh, Linda	Recycled Country Sunshine	Wiedebush and Company
Helms, Pat G.	Penni E. Clark	Jeri Wiedebush
Hoffman, Kirby	Rireley, Mary Benton	Williams, Jim I.
Hollingsworth, Dale	Rogers, Erin	
Keevan, Marcia A.	Rudd, Mysti	
Kriedeman, Eddie Jean	Schlegel, Norbert	
Letter Expressing Reasons Why the Fuels and Materials Examination Facility at the Hanford Site Should Be Selected to Disposition U.S. Surplus Plutonium		3-1353
Burk, Linda	Johnston, Daniel C.	
Burk, Robert	Mensinger, Debbie L.	
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Abell, Jane	Beardall, Jr., William H.	Breeding, Paula F.
Artho, Edward and Virginia	Berg, Ruth Ann	Charless, Jr., Addis
Atkerson, J. B.	Berry, Rick	Clark, Robert A.
Barclay, Gary L.	Bieri, Alvenia	Clopton, Jim
Barfield, Ellen	Black, Carla	Cole, Leslie

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Doyle, John	Moran, John	
Duncan, Dorothy	Murphrey, David	
Egbert, Lawrence	Neusch, Gayle	
Everett, Mike	Newburg, Madonna E.	
Garcia, Danna and Bennie	Newell, Virginia M.	
Gramstorff, Jeanne B.	Office of the Americas	
Helms, Pat G.	Blasé Bonpane	
Hoffman, Rosemarie	Owen, Weslie B.	
Hollingsworth, Dale	Peace Farm	
Keevan, Marcia A.	Mary J. Nicholson	
Kroeger, Janet	Pluhar, Darwin and Jennifer	
Lebow, M.	Recycled Country Sunshine	
Lebow, Sherri	Penni E. Clark	
Lippmann, Otto	Rireley, Mary Benton	
Mathern-Jacobson, Reba	Rogers, Erin	
Micon, Rastz	Rudd, Mysti	
Miller, Dion O.	Schlegel, Norbert	
Miller, Virginia M.	Seewald, Katherine	
	Seewald, William Hughes	
	Shennum, Mary L.	
	Smith, Doris B.	
	Smith, Greg and Michelle	
	South Dakota Peace and Justice Center	
	Jeanne Koster	
	Spear, Gale	
	Stein, Janie	
	Torczon, Mary Jo	
	Wadley, Robert Burns	
	Warden, Dolly	
	Warrick, J. E.	
	White, Jack W. and Betty E.	
	Wiedebush and Company	
	Jeri Wiedebush	
	Williams, Jim I.	
 Letter Expressing Support for Locating Disassembly and Conversion of Nuclear Weapons Plutonium Components at the Pantex Plant..... 3-1361		
Adams, Dave	Baldwin Distribution Services, Ltd.	Bradshaw, Lew
Adams, Jo	Dudley Baldwin	Bradshaw, Lisa A.
Alend, J. D.	Band, Lawrence	Bret, Joe
Aleroyd, Rita	Bankhead, Herbert	Briarodt, Randy
Alexander, Ray	Barnett, Roger	Brinkley, Tina
Almange, Kathryn	Barrett, Glenda	Brooks, Virginia
Alpha Pavement Technology, Inc.	Bass, Bob	Brooks, William E.
Glen Bards	Bass, Othelia	Brown, Dennis
Jimmy Gonzales	Beasley, Corinne	Brown, Jeanne
Scott Kit	Beasley, Matthew	Brown, Joanne
Amarillo National Resource Center for Plutonium	Beck, E. J.	Brown, Penny
Elda D. Zoumar-Harbour	Beldo, Dean	Brown, Samuel
Amus, Joseph	Bend, D.	Bryant, M. D.
Armstrong, Barbara	Bentley, Penni F.	Burd, Alan S.
Arnold, Steven D.	Berner, Steve	Burk, Norman
Austin, Steven J.	Beyers, Kay	Burkham, Todd
Baggett, Tony	Bigler, Christy K.	Burkholz, Janice K.
Bailey, David	Black, Brian	Burnett, Blaine
Bailey, Laura	Bonjour, Gail	Bush, Jr., Billy T.
Baker, Danni Jenkins	Borchardt, Paula	Bylee, John
Baldwin, Kathy	Boyd, Ron	Bythany, Jr., H. R.

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C. D. Baldwin Trucking	Davey, Beverly	Gage, Belle
Charles D. Baldwin	David V. Eck and Associates, P.C.	Gaison, Gabe
Campbell, Carl	David V. Eck	Ganeg, Etasi G.
Campbell, Chris	Davis, Karen	Garcia, Lucy
Campbell, Jane	Davis, R. T.	Garrett, Jennifer
Campbell, Lyna R.	Deal, Patricia	Gez, Bruce
Campbell, Shimika	Dockery, Lori	Giles, Jr., Thomas A.
Canmour, Carl	Dunditt, R. L.	Gofertto, Sharon
Cantii, Mike	Duyman, John	Golden, Tommy
Carflell, Samuel H.	Dyer, Richard	Gosulck, Jack
Carrol, Lewis	Dyson, Bettye	Gowery, Elizabeth
Cash, Douglas	Dyson, Hershel	Graham, Jerry
Cash, Linda	Eaton, Paul W.	Grant, David
Casias, Beverly	Edmond Denton and Stephens, Inc.	Gray, Steve
Caulehey, Chris	Leann Cox	Greear, Kenneth E.
Chaires, Sefina	Edmond Denton	Green, Edith
Chapmon, Garland B.	Donald Galbraith	Gross, Don
Chernick, B. M.	Joann O.	Grove, Donald
Chez, Charles E.	Jackie Reeves	Gunnels, Susan
Chieders, Miles	Charissa Young	Hactis, Willie
Childers, G. L.	Edmondson, Ronald	Haddock, James K.
Christain, Chris	Edmondson, Richard	Hain, Joel
Christain, Randy	Elliot, Ronald	Halek, Alice
Coker, Johnny L.	Ellis, Brandi	Hall, James
Collert, Brian	Elm, Paul H.	Harlan, Jane
Collins, Bryan H.	Elms, Harvey	Harmon, Todd
Comer & Fielding Custom Builders and Designers, Inc.	Elms, Mrs. Harvey	Harrington Regional Medical Center
Mickey Comer	Everitt, Stephen	Linda D. Borden
Pebbie Comer	Fansler, Krystal	Bernard Cohen
Rod Fielding	Fasano, Lupe	Stephen Gens
Alison R. Love	Fassa, Helen Jewell	Harris, Lisa
Benona Love	Ferguson, M. Clay	Hartness, J. M.
Cooper, Roberta	Fine, James	Harz, Kelly
Couture, Celeste	Firoff, Stacey	Hather, Jill
Craule, Marcus	Flippo, Cindy	Haws, Stan B.
Crawford, Aundria	Floyd, Shirley	Haynes, Amelia
Creden, Jr., Deward	Foster III, E. R.	Haynes, Carl
Creil, Mitch	Fouphy, Cesar M.	Heidelberg, Jerry
Crook, Tresa A.	Fowler, Jana	Hellberg, Jeffrey W.
Curtis, Don T.	Frislice, Sylvia	Hepoy, Ronald D.
Dalrymple, S.	Frouth, Bob	Hernandez, Tobias A.
Dan, Stuart	Fugett, Neda	Herr, Jim
	Fyfe, Taylor D.	

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Herrell, Auther	McGuire, Dusty
Hilbert, Christy	McKee, April
Hines, S. D.	McKeen, Sherry
Hintz, Jacque	McNeill, Sharon
Holb, Fontroy	McWilliams, Barbara
Holloway, F.	Meadows, Sharon
Holloway, Marty	Meer, Karen
Hooker, Vicki	Meier, Jim
Hotmann, Mark	Michaels, Anne
Howell, Joe K.	Mille, Rich
Illegible (36)	Mitchell, Cray
Imie, Russell	Mitchell, Stephanie
Inez, Gary E.	Molberg, Paula
Ison, Dale	Molberg, S.
Jackson, Chris	Mracley, John
Jackson, Donald E.	Mudroch, J.
Jackson, Mike	Muygu, Dawn
Jagler, Jann	Myer, Joanne
Jalori, Brian	Naraneta, John
James, Lendal	Navaj, Raymond
Janes, Randy	NcNabb, Patrick
Jobe, Alfred	Neal, Veronica
Johnson, Jim	Newton, G.
Jones, Robert	Nicholson, Brad
K.E.W.	Nicholson, Jr., Robert
Kay, John	Nixon, Dolores
Keene, Marilyn	Nodogil, Seth
Keene, Richard	Nuikodid, Darko
Keene, Tammy	Opitz, Lise Kin
Kidd, Don E.	Ortiz, Melisa M.
Kimbell, Iretta	Ortiz, Willie
King, Grady	Othengren, Karen R.
King, James B.	Page, Sherry
Kite, David A.	Palmer, Kelly
Knight, Stacy	Parker, Rebecca
Kongdan, Seth T.	Parker, S. F.
Kuking, Matt	Patrick, Connie L.
Lacer, Lorene	Patrick, Kathleen
Lane, Dennis	Patrick, Michael H.
Lane, Dot	Peters, Therese G.
Lane, Joe	Pinkham, Amy
Lane, Kim	Plates, Mary
Latte, Ray	
Lawdermilk, Rocky	
Ledbetter, Clyde	
Lewis, Chris M.	
Lewis, D.	
Lindsey, Clifford	
Loeb, Jack	
Lomoria, Abel	
Lonalo, Brian	
Lopez, Becky	
Lovett, Brock W.	
Lyons, Bobby	
Madden, Nita	
Maddox, Donna E.	
Maeder, D. R.	
Magen, Gina	
Magowik, Beverly	
Magowik, Sharon	
Mahan, Cindy	
Malone, Heather	
Malone, Wes	
Manning, Susan	
Marer, P.	
Markus, Jeanine	
Martin, Devich	
Martin, Sergio	
Martin, William B.	
Martinez, Brenda J.	
Martinez, W.	
Massey, Charles	
Matheson, Pam	
Mato, Michael L.	
Mayfield, Todd	
McAfoos, Paula	
McAfoos, Rob	
McCoffree, Robert	
McCormick, Wayne	
McDawell, Jenn M.	
McDonald, Lyle	
McElroy, Jimmy	
McGee, Charlie	
McGregor, Kay	

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Powell, Trish	Salzmann, Christina
Prather, Linda	Sanchez, Louie
Prather, Pam	Sand, Danyell
Preston, Heronie	Sanders, Don
Preston, Kenneth	Sanders, Sherm
Preston, Roberto E.	Sanders, Susan
Price, Sharon	Satterwhite, Chemayne
Propes, Mike	Savage, Tim
Prudential/Ada Realtors	Schecht, Nancy L.
Sue Lawrence	Schooler, Jim
Puryear, Mandy	Scott, E. C.
Rankin, Elizabeth E.	Scott, Jane
Rascoe, Joe F.	Seales, Ada L.
Reagh, J. W.	Sechrest, Sabrina
Reardon, Jane	Selman, Lucille
Reece, Doyle	Serf, Tricia L.
Reed, Carrie	Shackelford, Jerry
Reed, Peggy	Shafer, Jim
Reeves, Aileen	Shortell, Kenneth J.
Reid, Anne	Shumate, Carrie A.
Reid, Don R.	Shwartz, Bruce
Reynolds, Amy	Silk, Ron
Rhea, Donna	Simmons, Arlene
Richardson, Linda	Sims, Sophia D.
Riechen, L.	Skelton, Ronald
Riley, Karen	Slether, Gary
Rinale, Wendell	Smith, James B.
Ritox, Steve	Smith, Mary S.
Rivera, Shannen	Snyder, Sherry
Roads, Alethea	Souels, Mark
Roads, Paul E.	Southern, Leo
Robinson, Kelly	Spiker, Maxine
Rodriguez, Marsella	Stalcup, Larry
Rogers, David L.	Stanley, Thomas J.
Roland, Jennifer L.	Stein, Oliver
Ross, Raul	Stephens, Chris
Ross, Sam E.	Storage, Joe
Rowell, V. Nadene	Stouseth, Barbara
Rudder, Anita L.	Strader, Robert S.
Rudledge, Nellie	Street, Joe
Sabel, Jerry	Stubben, D. J.
Sabs, Jane L.	Sunnam, Brenda
	Switzer, Mita
	Taylor, Mandy
	Taylor, Nick
	Terry, Mike
	Teugh, John W.
	Thompson, Troy
	Thornberry, Jennie
	Tidmore, Jeff
	Tiel, Robert
	Todd, Frank
	Tucker, Tera
	Tyler, Earl
	Ulalf, Lou Ann
	Valdez, John
	Vib, C.
	Vincent, Dianne
	Vogler, J. Mark
	Walker, Charles D.
	Wallace, Kelly
	Walsh, Angie
	Ward, Gary
	Ward, Jason
	Ward, Susie
	Washburn, Melissa
	Wath, J. L.
	Watson, Darian
	Weatherly, M. L.
	Weatherly, Sharon A.
	West, Linda
	White, Teri
	Wilfong, Richard R.
	Wilkinson, Michael D.
	Williams, Tammy
	Williamson, Sylvia
	Willinghour, C. G.
	Wilpent, Bobby
	Wilson, Betty
	Wilson, Valerie
	Wilson, Wayburn D.
	Wjaj, Stan
	Woodruff, Jerry
	Wright, Carol

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Commentors	Page	
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Wright, Fred	Zachry, Rob D.	
Young, Robert L.	Zenor, Becky	
Petition Expressing Opposition to Mixed Oxide Fuel Transportation Across the United States 3–1363		
Abeane, Kathy	Blay, Dorina	Coleman, Allison
Adams, Mary	Blotshy, Kimberly	Coleman, Marsha
Adams, Mary G.	Bohs, Sally T.	Coleman, Melissa
Ady, Linda	Bond, Janice H.	Colo, Joan M.
Ady, Steve	Bostwick, Cynthia	Conner, John
Aiken, Sandee	Boven, Ron	Cook, Barbara
Alison, Thomas	Bradley, Sherry	Cousins, Helen
Allen, J.	Breining, Craig	Cowhy, Jack
Allen, Rex	Brettin, Rhett	Cowhy, James
Allen, Terry	Brickey, Ted	Crimmins, Joan
Ameel, Sally	Bright, Marilyn J.	Cumbow, Kathy F.
Anderson, Jean	Brown, Denise	Curie, Cmily
Appleger, Jennifer L.	Brown, Dennis	Dahl, J.
Applely, Barbara	Brown, Lola	Darezy, Mary
Ardigo, Ann M.	Bryant, Janice	Davis, Kelly L.
Arkins, Rob	Buckhanon, Colleen	Davis, Mary
Arnold, Bernard G.	Bulanda, Catherine	Davis, Sandra L.
Arnold, Tilda	Burg, Dawn	DeBell, Connie
Bachmann, Anne M.	Burg, Thomas	Dei, Patricia M.
Bachus, Jr., Orval	Burke, Genevieve	DelPelsmaeker, Kim
Baillod, Jude	Burns, May	DeMaray, Sheri
Baker, Debra P.	Butler, Alice R.	Dennis, John R.
Barbier, Katherine	Cachean, Robert	Dennis, Linda
Barnes, Linda	Campbell, Elizabeth	DeVeicht, Kathryn
Basrai, Mary	Cantlin, Wayne	DeVought, Jerry
Bauer, George	Capanda, Michele	Dickey, Bartlett C.
Bearden, Patrick	Card, Suzen	Dinkel, Ilah
Beebe, Jan	Cargo, Louise	Donaghy, Carolyn
Behnke, Bob	Carmichael, Patricia	Dortman, Mary J.
Beller, Francis	Carreer, Samantha	Downing, Rodney L.
Bendall, Lori	Chapdelaine, Jean	Droesch, Louis
Bennett, Deanna	Charjot, Judy	Duffy, Mary Ann
Berardo, Norma Frances	Chiesa, Charole	Dugowolski, Patricia M.
Biernot, Marilyn	Chiesa, Maria	Duping, Charles R.
Biernot Kinna, Michele	Clark, Gretta M.	Easton, Gerry
Binna, Lee R.	Cline, Louie	Easton, Patricia M.
Bitzinger, Nancy P.	Cluney, Sheila	Eckert, Ben
Blair, Mark	Cochran, Jean	Edgerton, Jeffrey

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Commentors	Page
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Edgerton, Leah	Kornieck, Rose Marie
Edie, Bob	Kotermanski, Chris
Edie, Connie	Kovalcik, Christopher
Edwards, Robert	Kramer, Mino
Ehervier, Margaret	Krammer, Cindy
Ernst, Anne Marie	Lachance, Monique
Evans, Scott	LaPeire, Iva
Eveningred, Steven	Leonard, Rich
Everhart, Joycelyn	Lesuer, Sally
Falk, Leou	Lewinski, Daniel
Feil, Louis	Lewinski, Michelle
Feil, Sandra W.	Lieder, Keri
Fisher, Dorothy	Lieder, Matthew
Fisher, Linda	Line, Robert
Fisher, Robert	Litogat, Genevieve
Forest, Carrie	Lock, Sharron
Fretenborough, Norman R.	Long, Lee
Frumveller, Billie	Lyon, Steven R.
Gaffey, Chester B.	Machwski, Constance
Gaffey, Thomas J.	MacIntyre, Barbara Lee
Ganhs, Rose M.	Mackay, Jeanne
Gersky, Deborah L.	Marcellin, Joe
Gilbert, Pam	Markham, John
Good, Judy	McCarthy, Michael J.
Graham, Donald	McClelland, Jennifer
Gromek, Felice	McConnell, Jamie L.
Haar, Lois	McConnell, Timothy
Hack, Shannon	McCormick, Bill
Hall, Janice	McDonald, Dave
Hall, Kimberly	McDowell, Ginethea
Hampton, Jason	McFadden, Gloria
Hancock, Barbara	McFadden, Wesley
Hannon, Lori	McFran, Sharon
Harady, J.	McKeon, John
Harrington, Jeff	McKeon, Merisa
Harris, Norma	McLane, Eileen
Hartel, John	McPharlin, Mary Gale
Hartley, John	McQuistin, M. E.
Hartley, Ken	Meier, Shannon
Haviland, Bruce	Meikle, Lori J.
Hayeden Nixon, Karyn	Miodowski, Lori
Hayedon, Jeffry D.	Mitch, Dean
Hayes, Becky	
Hazelman, Elmer	
Heath, Daniel L.	
Held, Rose Marie	
Henricks, Rita	
Hering, Kurt	
Herlih, Florence	
Hiehn, Pam	
Hildebiand, Arbutus	
Hinter, Melissa	
Hock, Gary R.	
Holmstrom, Holly K.	
Hopper, Mary Elaine	
Horan, Carol	
Hoskey, Phyllis	
Houghton, C. W.	
Hoyel, Andree Le	
Hunt, Stacy	
Huntington, Janice	
Hurley, Nanon	
Illegible (9)	
Irish, Cindy	
Israel, Anna M.	
Itsata, Gerald	
Jamison, Elizabeth	
Janicki, Jessica	
Joseph, John	
Jury, Bob	
Kammer, Cynthia	
Kandler, Patricia M.	
Karthals, Tammy	
Kaufman, Lou Anne	
Kean, Owen	
Kercher, Chris	
Keyworth, Hannah Mary	
Keyworth, Howard F.	
King, Lorna	
Kinish, Jerry	
Kipp, Deanna	
Kirstine, Lori	
Klaas, David	
Knoll, Sandra	

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Mitchell, Doris M.	Pontack, Suzanne T.
Moeller, Eugene	Porrett, Dorothy L.
Molloy, Thomas	Price, Gary
Molosky, Carol K.	Prieskorn, Juanita
Morton, Harold	R., Lorraine
Moshrak, Larry	Ragan, David
Motte, Nancy	Ralston, Margaret
Mueller, Deanna	Raludue, Debra H.
Murphy, Sr., Jerry	Ramsey, Carl
Myron, Harland E.	Rathje, Pat
Noetzel, Emily	Ravin, Val Jean
Noetzel, Eric	Rayman, Pam
Noetzel, Kathy	Raziel, Mike
Norton, Patti	Renno, Marian
Norwicki, Patricia	Retito, Nichole
Nuernberg, Melody J.	Rick, Sharon
Nuezkiewicz, Ruth	Rinker, Elene
O'Barsky, Staci	Ritter, Jacqueline
O'Barsky, Thom	Robb, Stacey
O'Brien, Beverly J.	Roberson, Diane M.
O'Connor, Kim	Roberts, Beverly
O'Mally, Pat	Roberts, Patricia A.
Oden, Laurie Ann	Robertson, Marie
Older, Mark	Robertson, Mary Ann
Oliver, William	Robinson, Pauline
Olshove, Amy	Rogalski, Dawn S.
On, Melissa	Rolls, Robert
Osborne, Anne	Rorihe, Johnu
Parent, Jeff	Roy, Karen
Parent, Judy	Ruby, Kathy
Parker, Jessica Lee	Ruedisuili, James C.
Paterson, Grace F.	Runyer, Penelope
Patnales, Gregg	Ruxey, John
Pedigo, Charles	Ryan, Gary D.
Pedigo, Dorothy	Ryan, Mike
Peltier, Patricia	Sabb, LaDon
Pemberton, Patricia L.	Sadlowski, Kelle
Petit, Mike	Saolowski, Richard
Petz, Nate	Schafer, Heidi
Phillips, Judy	Schef, Betty
Pitts, Roger	Schef, Daniel F.
Plant, Sheri	Schef, John
	Schef, Nora
	Schieke, Gerald
	Schmitt, Amy
	Schneider, Jeff
	Schott, Paula
	Schreiber, Sheila
	Schumacher, Ed
	Schweihofer, Sue
	Schweihofer, Tom
	Scott, David
	Scott, Helen
	Seely-Rajnay, Sandy
	Senart, K.
	Setter, Lillian Jean
	Sharpe, Diane
	Sharrow, Timothy
	Shell, Phyllis
	Shirkey, Susan
	Shonk, Paul N.
	Shouk, Kim
	Shovan, Alice I.
	Siewort, Virginia J.
	Sigle, Donna
	Skunuce, Chris
	Smeltzer, Marsha
	Smith, Aurie S.
	Smith, Marcia B.
	Smith, Robert A.
	Smith, Ronald W.
	Snuggs, Amy
	Spezia, Matt
	Starkey, Margie
	Starkey, Robert E.
	Steece, Cheryl
	Steece, Kenny
	Steinhaus, Mary Jane
	Stephenson, Kim
	Stocking, Margaret A.
	Stocks, Elaine
	Stump, Clara
	Sturges, Frances M.
	Sutton, Margaret C.

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Swann, Hildig	Van Damme, Ward	Wiegand, Tim
Swann, J. K.	Vertigan, Kimberly L.	Wille, Rick
Sweeks, Marjorie	Virnocke, Joan	Winzer, Frederick
Sweet, Brenda	Wagenschutz, Susan	Wirth, Kurth
Sweet, Gloria K.	Wajciechowski, Janet	Wiseley, Duane
Swowitz, Arnold	Walker, Beverly J.	Woock, Mary L.
Sylla, Sammye Kaye	Ward, E.	Wood, Dana
Taylor, Eleanor	Ward, Gary	Woycinski, Irene
Taylor, George	Watson, David	Yeashuvich, Joyce
Tenyer, Rosemary	Watza, Charles J.	Young, Pauline M.
Thomas, Frances L.	Watza, M. Noreen	Young, Roberta
Thompson, Amanda	Wegner, Carol	Young, Thomas
Thompson, Dawn	Wenzel, Nancy	Zambelli, Karen
Thompson, Katherine	Wesbrook, Carolyn	Ziegler, Herbert
Thompson, William	Westrick, Nickie	Zimmerman, Stan
Townsend, Wendy	White, Ben	Zwiernik, Julie
Trombley, Denice	White, Chuck	Zwiernik, Susan
Tyson, Gordon	White, Phyllis	
Van Brande, Brenda	Whitesell, Jessie	
Petition Expressing Support for Siting the Pit Disassembly and Conversion Facility at the Pantex Plant 3-1367		
A., Carol K.	Ayold, Karly	Berum, H. S.
A., Dawayne	B., D.	Biddle, John
Acker, Sherri	B., N. J.	Biggs, Tony
Ackin, Judy	B., Rollin	Black, Sheila K.
Ahson, Joe	B., S.	Blum, Mike
Alexander, Brian G.	Backus, Brandee	Boar, Michael
Altman, Douglas	Backus, Larry	Boese, Connie
Altman, Mattie	Bailey, Laura	Boone, Randy
Altschwager, Carl F.	Baker, Kimberly	Booth, Alan
Amos, Martin	Banientez, Juan	Bostick, Debbi
Anders, Johnny	Barket, Ronald	Boudreau, Renee
Anderson, Bennie	Barrett, Patti	Bowman, W.A.
Anderson, Fred G.	Barrings, Ernest	Boyn, Larry E.
Anthony, F. W.	Barta, A. S.	Bradstreet, Dustin
Anthony, T.	Bartlett, Ronda J.	Bremer, Carol
Anton, Richard	Barton, Blaine	Briggs, Bettye S.
Arney, Dennis	Baucom, Kaye	Bright, Al
Asbury, Donnell	Bauera, Gloria	Broggley, Jim
Ash, Tom	Bell, Doyle	Brooks, Anthony
Ashlort, Gary	Benner, Helen S.	Brookshire, Doug

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Brown, David	Darrah, Bill
Brown, George	Daves, Jimmy
Brown, Mickey	Daves, Marilyn
Brown, Randy	Daves, Marilyn
Buchanan, J.	Davis, Danny
Bull, Cristie	Davis, Dolores F.
Bullington, W. S.	Davis, James N.
Bullock, Robert A.	Day, Helen Charlene
Burk, Judith L.	De Los Santos, Sofia
Burows, Doug	Deicer, Randy
Butten, Clifton	Dell, Steve L.
Butten, Susan R.	Demeison, Carolyn
C., Jay	Demerser, Carolyn
C., Jimmy	Dennis, Melina
C., Rick	Denny, L. O.
Cabello, Lurie	Denton, Tammy
Caldwell, K. J.	Diaz, Anna R.
Call, John R.	Dickerman, Carey
Callen, Christi	Dillaha, Bobby D.
Camaurt, Ramon	Does, Donald
Campbell, Betsy	Doreba, J.
Campbell, Bruce	Dossett, Bernard
Campbell, Charles A.	Dreny, A.
Campbell, Cleedel	Dresch, Shane
Campbell, Don	Dressler, Shane
Campbell, Helen	Druilar, Genny R.
Campbell, Scott	Duggan, James F.
Candera, Johnny	Duggan, Rowena
Capp, A.	Duncan, Glenn K.
Carlson, J. R.	Durham, Denise
Carnes, Rodney D.	Dye, Lisa
Carrillo, R.	E., Jannie
Carrole, R.	E., Mark
Carte, Troy	E., R.
Cartellason, L.	Eddleman, Alvin
Carter, Sharon	Edinert, Michael S.
Cartwright, Pam	Egoodkin, Alan
Cash, Wilham	Egoodkin, L.
Cash, William	Elliott, Shon
Casper, Sid	Elvin, Paul H.
Castlebury, Duane	Emery, U.
Cave, Claude	
Chairs, Selina	
Charley., John	
Chavez, Jesica	
Chavez, Robert	
Chuley, John T.	
Clark, Clifford	
Clark, J.C.	
Clark, Janice	
Clark, Joseph	
Clift, Earl	
Clilbers, Jay	
Clinton, Charles	
Cochrell, Gary D.	
Cockerell, Jr., Glenn	
Cockrell, Glenn C.	
Coffee, Vicky Lynn	
Collier, Edgar J.	
Collins, Bettye	
Collins, Larry	
Conklin, Woody	
Conn, Ken	
Connally, Doug	
Cook, Ken	
Cookran, D.	
Cookroy, A. E.	
Coppinger, J. W.	
Coppinger, Linda	
Cotney, B. K.	
Covell, Carol O.	
Cox, Larry	
Crosslin, Gracie	
Crumley, Martha	
Crutchnor, Jim	
Culwell, K.	
Curtis, Roy E.	
D., Allen	
D., Ray	
D., S.	
D., Sarah	
D., Tracy	
Daniel, Deborah	

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Erven, Inez	Henderson, B.
Eseamilla, Al	Herbert, Cliff
Estes, Virgil	Hernon, Donald M.
Evans, Edwin	Herrera, John J.
Evenson, Kim	Hicks, Alma A.
Fadlock, Janey	Hileman, Beau
Faggan, Zani	Hill, Charles
Fajardo, Maria	Hill, David
Fansler, Sarah	Hill, Randy
Fansley, Tony	Hilley, K.
Farley, Robert	Himm, Tedd
Feng, J.	Hintar, Terry
Ferguson, Monte	Hintar, J. D.
Ferguson, Jr., Warren D.	Holliday, Michael C.
Findley, Gerald	Holz, Jeb
Fingh, Jerry	Hoogson, Lisa
Fjotland, Barbara	Hooper, Harvey
Flores, Lias	Houser, Denise L.
Fogg, Karen	Houson, Lorie
Ford, Kim	Howry, Jr., Emmitt
Ford, Patrice B.	Huffer, Earl
Ford, Teri A.	Huffer, Emil
Foreman, Dinh	Hulquist, R.
Forseythe, W. H.	Hunt, Tim
Foster, Michael	Hurst, Sleria
Frasier, Sammy	Hutam, R. L.
Freeman, E. Renae	Huxsly, Art
Fry, Dustin	Illegible (55)
Fuller, Rodney	Irons, Daniel
Gadiman, Lucille	Irwin, Joe
Gadman, David	J., Art
Gage, Belle	J., Bob
Gaine, Roberto	, James
Galloday, S. E.	Janbrano, Louis
Gamel, Bill	Janer, Terry G.
Ganor, Annette	Jasper, Sid
Ganor, Richard	Jergenson, Monte
Gantor, Joseph	Jigel, Mary
Garcia, Frank	Jinney, Dennis
Garcia, Josi O.	Johannsen, Paula
Garett, Donnie	Johnny, Furser
Garner, Dale	
Gass, Kathy	
George, Jr., F. W.	
Gilbreth, Cynthia	
Gilmore, Sandy	
Glager, Dan	
Gooden, Ruthie	
Goodin, Glen	
Grant, Stacy	
Gray, David	
Green, E. J.	
Griffin, Kathyrn	
Griffin, Ronald S.	
Griffis, James	
Grimes, Gary	
Gritten, Clifton	
Gublere, Van	
H., D.	
H., Damian	
H., Dan	
H., Josi M.	
H., William R.	
Habi, Jim L.	
Hacketz, Margerette	
Haggard, Randall S.	
Halford, Larry D.	
Hall, Beverly	
Hall, J. D.	
Haller, Fred	
Halliday, Debra	
Halsted, Phillip	
Hancock, Dayton	
Hancock, Jeff	
Hanson, Walter	
Harbin, Ann	
Harrelson, Misti	
Harry, Russell	
Hartzler, Charlene	
Hatfield, Donna	
Hatfield, Roger	
Hefley, Teresa	
Hefner, M.	

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Johnson, Deborah	Larken, Tully
Johnson, Jack	Larsen, Steve
Johnson, L. H.	Lassiter, Laquita
Johnson, Larry J.	Lateem, Eddie
Johnson, Nicky	Laughten, Elmer
Johnson, R. C.	Laur, Tommy
Johnson, S.	Lawle, Terry
Johnson, Warren	Leake, Tommy
Jones, Francis	Leasure, Lanette
Jones, Melissa	Leather, Doyle
Jung, Susie	Lede, Tim
K., Michael	Lee, Clifton
K., Rusty	Lemming, Sandy
Kaczmaule, Doug	Letto, Bing
Kahn, Martin D.	Lewis, Ernest
Kaper, Lomo	Lichte, S.
Keating, Michael D.	Lill, Terry
Keenan, R. W.	Limoger, Francis
Kennedy, Scott	Lincoln, Louie
Kenney, George	Locke, J.
Kenney, Heidi	Lockwood, Jeannine
Kenyon, Bena	Lofka, Janelle
Kephe, Mark	Lolet, Larry
Keths, J.	Long, DeAnn
Kiester, Daniel M.	Lopez, D'Ann
King, Donnie	Lovelady, Curtis
Kinnison, Danny	Lowe, Lea
Kinnison, Don	Lowrey, Michael
Klahr, Pam	Lucas, Roger
Knight, Alexis	Lucero, Penny
Knight, Jess	Lundberg, Janice
Knight, Stacy	Lyles, Brandy
Koply, Mark	Lyles, Chris
Korel, Robert	Lyn, Thomas C.
Krizan, Charles E.	Lyons, Trisha
Kuehl, Rick	Lyons, Tristin
L., Jerry	M., C.
L., John F.	M., Donald B.
Lair, Mike R.	Malone, Robert
Lan, M. R.	Mann, Johnny
Lanier, Scott	Manning, Ann
	Marcin, Jackie
	Mares, Bob
	Mares, Susie
	Marick, Aranelle
	Marin, Glenda
	Marsh, Donna
	Martin, D.
	Martin, Daniel
	Martin, Jerome B.
	Mask, Kay
	Massey, Tracy
	Matlock, Harold
	Matz, L. M.
	Maury, Leon
	Maxey, A. Kevin
	Maxey, R.
	McAdams, R. M.
	McBride, Dave
	McBride, Elizabeth
	McCleung, Donald
	McFather, Jayne
	McFather, Shane
	McLaughlin, Suzie
	McMintz, Ley
	McNabb, Angela K.
	McSelf, M.
	McWilliams, Mark
	Mern, David
	Merriweather, Ken
	Mesa, Cindy
	Meyer, David
	Meyer, Kenneth
	Meyer, Mary M.
	Miller, Justin
	Miller, Russell
	Mills, L.
	Mitchell, Cristal
	Mitchell, Danny
	Mitchell, Erma
	Mogart, Kip
	Moglia, Steven P.
	Monroe, Willie

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Petition Expressing Support for Siting the Pit Disassembly and Conversion Facility at the Pantex Plant (Continued)	
Monson, Scott	Phillips, Cary D.
Montano, Robert	Phillips, Casey
Moore, Billy J.	Phillips, Herman
Moore, Jerry K.	Phillips, Katrina
Moore, Mike	Pickett, Don
Moore, Steve	Pickett, Donald
Morgan, Mille	Pierce, LaDena
Moronun, Carolyn	Pierson, Mark
Morris, Clayton	Pierson, Maurice
Morrison, John A.	Pinkston, Jane
Moser, Colin	Pollard, Vicky
Myers, Bill	Polley, Les
Nakayama, Melinda	Polvado, C. K.
Nall, Cathie	Pompa, Paul
Neeley, Ken	Pope, Linda
Nelson, Pam	Potters, Juan
Nixon, Leta	Prathe, Dennis
Nolan, Richard	Pratt, Kay
Norwood, Bill	Proffitt, Gary
Nuney, Karen	Prosser, Cathy
Nymeyer, Jr., F.M.	Pryor, Jack
O'Brien, Inge	Ptashine, Leslie
O., John	Ptashine, Paul
O., T.	Quillen, Rodney
Onyaryl, A.W.	Quinta, Al
P., C.	Quyade, Tony
P., John	Quyulen, Tony
Painter, John	R., Artur
Papp, A. G.	R., L. A.
Parker, Don	R., Nadine
Parker, Dudley	Ramirez, F. B.
Pate, Rich	Ranch, Melvin
Pate, Thomas E.	Rank, Kay
Patterson, Doug	Raum, Margie
Patterson, Ed	Redeener, Wanda
Patterson, Pat	Reever, Leslie
Patterson, Steve	Renilla, Joseph T.
Payne, Mike	Reyls, Carol
Payne, Ronnie	Reynolds, Gloria
Pearson, Susie	Rhoten, Mark
Perea, Norma	Rice, Roma
Perreff, Chris A.	Richardson, Erin B.
	Richardson, Karen
	Roberts, Allen J.
	Roberts, Jay C.
	Robinson, Johnnie
	Rodriguez, Elizabeth
	Rodriguez, Roger
	Rogers, Gayle
	Rogers, Jimmy C.
	Rosalin, Michael
	Rossiter, Len
	Roudtof, Robert
	Round, Gerald E.
	Rowe, Robert
	Ruiz, D.
	Russell, Shelly
	Ruzi, Bobby
	Ryan, Mike
	Ryes, Caroline
	S., David
	S., David C.
	S., Edward Dean
	S., Jesse
	S., L.
	S., Mark
	S., Michael
	S., Patrick
	S., Rachele
	Sain, Elvis
	Salazar, Esther
	Sale, Daniel
	Salen, Scott
	San, Cenny
	Sanchez, Vera
	Sar, Robert
	Sarah, Lynn
	Sarrah, Richard
	Savage, L. Faye
	Schapp, Ellis Dale
	Schmidt, Nick
	Scott, Betty
	Scott, Sharon
	Sena, Danny

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Petition Expressing Support for Siting the Pit Disassembly and Conversion Facility at the Pantex Plant (Continued)	
Serra, Sr., Pat	Thompson, J.
Session, Hugh	Thompson, L. O'Brien
Shafer, K. M.	Thompson, Marzella
Shaw, Paul A.	Thompson, Prissilla J.
Shelton, David	Tolby, Robert
Shelton, J. S.	Tomlinson, Leon E.
Shinah, Dan	Trevino, Edward
Shumaker, Donald E.	Trevino, Lisa A.
Sihl, Vickie	Triny, Susie
Sims, Carol A.	Tucker, Bill
Skinner, Randall	Tucker, Lynette
Smart, David	Tyler, Chris
Smith, Carol M.	Tyler, Ken
Soper, Mike	V., Barbara
Sottile, Lucy	V., J.
Spands, Darlene	Valdez, Johnny
Spaner, Jon	Vann, Candy
Spangler, Mike	Vaughn, Glenn
Spears, Belinda	Velasquez, Chuck
Speck, Paul	Velasquez, Filbert
Srygley, Jeff	Venhaus, Bernard
Stallings, Tom	Vereto, David
Stark, Mark	Vickers, L. D.
Steen, Susan	Vickers, Lisa
Stickrod, Anna	Vigil, Nick
Stoltz, April	Villceeso, M.
Stout, J. Dale	Vincent, Russell W.
Stratton, Don	Vincent, Tammy
Struckland, Ered	W., M.
Stultz, Bob	W., W. Scott
Summers, Cynthia	Walsh, Daniel R.
Summers, Harold	Walsh, Dave
Surser, Christi	Walsh, Patricia
Swingle, Anna C.	Ward, Robert M.
Taylor, Bill	Watkins, Sandra G.
Taylor, James	Watson, Gary H.
Taylor, Jeny	Weatherby, Nancy A.
Taylor, Stacey	Welch, Gregory W.
Terly, Julie	Welch, Linda
Teter, Annette	Whalen, David
Teter, Kevin	Whaley, Jan
Thaggart, Carol	Whicker, Lawrence
	Whilett, Russell
	Whitney, RussellC.
	Willard, Pete
	Williams, Dennis
	Williams, Jerry
	Williams, Ken
	Williams, Lee
	Williams, Leroy
	Williams, Linda
	Williams, Toni
	Winters, Gary E.
	Wodson, J.
	Wood, Flint
	Woodberry, Lorenza
	Woods, Angela
	Woodward, Larry
	Wooland, Dwayne
	Y., Dave
	Yaryl, John
	Yeger, James A.
	Yeger, M.
	Yokum, Nell
	Young, Kelly
	Yuger, Sandy
	Z., Donald
	Zamora, Frank S.
	Zamora, Gilbert
	Zamora, Lois
	Zerm, Darla
	Zerm, R. W.
	Zuniga, Sal
	Zuniga, Terri

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

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Petition to Protect the Mission at Pantex.....	3-1369	
Allison, Pam	Donelson, Mary Margaret	Pale, John
Breeding, Paula	Donelson, Rusty	Peck, Karen
Comb, Cory	Finegold, Allen	N., Trish
Goucher, Martha	Locke, Joyce C.	Seewald, Carl
Donelson, Mary	Mills, Robin	
Postcard Citing Savings From Consolidating All of DOE's Plutonium Disposition Missions at the Savannah River Site	3-1371	
Adams, Beverly	Bates, Cora	Buenastro, Amy
Adams, Doris T.	Baugh, Cindy	Buir, Randel A.
Adams, Monica	Bayles, Pamela	Burdette, David P.
Addis, Robert	Becker, Dan	Burnett, Pamele
Aden, Jr., Henry E.	Belie, Mosley B.	Burnham, April L.
Aiken, Christopher S.	Bell, Gregg L.	Burns, Corey S.
Aiken School District	Bell, Kathlene M.	Burns, Sandra S.
Constance K. Fevell	Ben, Alex U.	Busch, Vernon L.
Aimes, Carol	Benehof, William A.	Busser, Bert H.
Albrett, Fred	Bergstrom, David	Bustler, Ben
Allen, Becky	Berry, F. B.	Butter, Pam
Allen, Bobbie B.	Berry, Judy	Byrd, Earl L.
Allen, III, Quince	Berry, Marie S.	Calkey, John L.
Alvin, Stanley	Bishop, Sandra H.	Campbell, Hazel P.
Ameinan, Joy H.	Blackburn, Ernie M.	Campbell, Jim R.
Anderson, B. J.	Blake, Benett L.	Campbell, Sarah E.
Anderson, Robert	Bloom, Richard C.	Carroll, Carol W.
Anderson, T.	Boggsweil, R. W.	Carter, Helen T.
Atipp, Randy H.	Bolholz, Stacy	Carter, Lillie W.
Atkinson, Jr., John T.	Boyd, Jr., Norman	Cayne, Shelds
Augusta Telephone	Boyds, Earl L.	Chain, Regina O.
Sharon Martin	Brantley, Sed S.	Chamber of Commerce
Ayer, Dennis L.	Bresser, Sr., C. W.	Richard Lamar
Ayers, Hazel Leigh	Brewer, Joseph	Chapman, Michael
Bacon, Debi	Brimke, Harald P.	Chauwind, Richard
Bailey, Dwayne E.	Brinkley, Jamie	Chester, Dan
Bailey, John E.	Brock, Wallace T.	Childer, Wallie
Bailey, Wendy	Bronze, Deborah B.	Chriswell, Kim
Baker, Jenena P.	Brosbris, Willie R.	Citizens for Nuclear Technology
Bamberg, Edna C.	Brown, Gloria	Awareness
Banks, Jr., Wayne E.	Brown, Sylvia E.	Michael Britte
Barnes, Rachel K.	Bryant, Jr., Laivtan	Fred L. Davison
Barry, Carol S.	Buchanan, Brian P.	Illegible
Bater, Jacqueline C.	Buchholtz, Anthony J.	William H. Martin
Bates, Alfred	Buchwater, Donald S.	A. Mause

Table 1–8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Postcard Citing Savings From Consolidating All of DOE's Plutonium Disposition Missions at the Savannah River Site (Continued)	
Citizens for Nuclear Technology Awareness (Continued)	
John W. Pavaglio	
Frank E. Wise	
Clark, Dalisa	
Clark, Dorothy	
Clark, Tammy M.	
Clifford, R. Priscilla	
Clothing, Ruthie L.	
Coach, Kim	
Cole, Judy	
Collins, Monica J.	
Collins, Mozella	
Collins, Sara	
Conway, Dick	
Cooper, Tanya	
Corly-Stone, Edie	
Cortledge, Sara	
Counts, Betty B.	
Crawford, Beatrice A.	
Crawford, Rene	
Cruz, Counne R.	
Curry, Lepone	
Curry, Wanda	
Dais, Freddie L.	
Darnell, Addie E.	
Davis, Rita	
Davis, Sean	
Denney, Bobby	
Dewey, Howard R.	
Dion, B. Ralph	
Domain, Carol	
Dominey, Patricia R.	
Donava, Neal	
Dowdy, J. W.	
Drefus, Chris	
Druig, A. W.	
DuBose, Lillie	
Dunbar, Carl A.	
Dunn, Elizabeth	
Ed, Melinda G.	
Edwards, II, Robert Allen	
Eggesman, H.	
Eichen, Mark	
Eigle, Ronald K.	
Esuri, Marl	
Fail, Shelly	
Fay, A.	
Felak, John M.	
Felder, Alesia D.	
Fell, Rick	
Ferrell, C. A.	
Ferrell, Ronnie F.	
Fields, Donald	
Fing, Bobby H.	
Flores, George R.	
Floyd, Joe	
Foger, Lorie O.	
Forest, Mary Jane	
Foster, Edda M.	
Foster, Stephen G.	
Foulks, James F.	
Franklin, Elizabeth	
Franklin, Tony E.	
Frazie, Pamela	
Freeman, Thomas R.	
Fritz, Jill	
Fuhner, Terry	
Fulghun, Wayne	
Fulmer, Glenda T.	
Futner, Betsy C.	
Gaffiney, Timothy	
Gaines, Amanda	
Gallon, John	
Gartrell, Dean D.	
Gay, H. R.	
Gay, Mark J.	
Gaylord, Cathy	
Gaylord, James F.	
Geay, Peter L.	
Geddes, Catherine	
Geldston, W. J.	
Gidson, Jesse	
Glover, M. B.	
Goff, Cyrus B.	
Goodwin, Lois	
Goodwin, Pheffi	
Goodwin, Sr., Haskell	
Gooker, Laura E.	
Grant, T. W.	
Graves, Authur J.	
Gray, Penny	
Graybeal, Michelle	
Graybill, W. R.	
Grayhill, Barbara	
Green, Daniel W.	
Green, Steven H.	
Green, William	
Greenaway, Paul R.	
Griffin, Denise	
Gromade, R.	
Grubbs, Richard	
Haggard, Rick	
Hall, Bill	
Hall, Julie C.	
Hall, Sondra A.	
Hallman, R. L.	
Harkless, Dixie	
Harris, M. A.	
Hart, D. C.	
Harter, F. M.	
Hasty, Donna M.	
Haust, Susan B.	
Hawkins, Cade E.	
Hawkins, Madeline	
Hawkins, Tony	
Heard, Tammy S.	
Hechles, Bob	
Heklek, Jonathan	
Henderson, Kenya	
Henderson, Patricia	
Henely, Sr., George A.	
Hentger, Regina H.	
Hess, Bert	
Hett, Dana H.	
Hetzel, Christine L.	

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Postcard Citing Savings From Consolidating All of DOE's Plutonium Disposition Missions at the Savannah River Site (Continued)	
Hicks, Brenda	Luton, Merrie L.
Hicks, Rally	Lynn, K. R.
Hicks, Susan	Lynn, Sharon
Hickson, Kimberly S.	MacCruny, Cheryl I.
Hickson, Lee T.	Maddux, E. Paul
Hightowen, Gregory L.	Malizia, Jennifer E.
Hightower, Willie	Malloy, Sondra R.
Hightown, Barbara H.	Martin, David
Hill, Donald L.	Martin, Delores
Hillary, Melba L.	Martin, Michael
Holgate, Shirley G.	Martin, Ruth
Holland, Dianne	Martinez, William P.
Holland, Mary R.	Mathews, James E.
Holland, Michael K.	Mathis, Karen J.
Holley, Deborah L.	Mathis, Leah D.
Holliday, Kim	Matthews, A. C.
Hollyfield, Ellison	Mayor, Brenda
Holmes, Patricia A.	McCain, Mary
Holz, Charlotte D.	McClair, Sharon
Hooper, Ruth H.	McGee, Garrett
Hophers, Karen A.	McKie, Vicki L.
Huff, Stephanie	McKinney, S. J.
Hughes, M. B.	Meadows, Vince
Hutto, Jr., Howard J.	Meahling, Joyce
Illegible (27)	Mechs, Terry L.
Iye, Sandy R.	Medlin, Ricky
Izlen, Kathy	Medlock, Robert
Jackson, M.	Merriweather, Tonya F.
Jackson, Oscar	Miller, Kendall E.
Jaller, Mel	Mizzell, Tammy L.
Jamison, William T.	MKR
Jee, Bauer K.	Martha K. Register
Jeer, Aaron M.	Morris, Christie
Jeff, Jerad A.	Morris, R. M.
Jenkins, Linda H.	Moseley, Edith
Jerard, Mike	Moser, Stephen
Jewell, Erin	Moth, Gary S.
John, Katherine L.	Moton, Raymond
John, Reginald L.	Mryline, James D.
Johns, Roxanne	Mullen, Carrie
Johnson, B.	Munwell, A. H.
Johnson, Brolura	Musolf, Matthew M.
Johnson, Earline	
Johnson, Larry	
Johnson, Patrick	
Johnson, R. Charmaine	
Jone, Albert B.	
Jones, Debra A.	
Jones, Kevin	
Jones, Mary W.	
Jorden, Michael	
Juger, U. S.	
Keenan, Marie	
Kelch, Brenda J.	
Key, Shelley	
Kiernan, John A.	
Kiernan, Pamela S.	
Kimbrell, Rebecca	
Kingery, Andy	
Kip, Susan M.	
Kirkpatrick, Scott	
Kissice, Stephanie R.	
Kopeck, Seathe	
Krist, Fred	
Kropp, Charlie W.	
Kruel, Richard E.	
Lamb, Angela	
Lamb, R. Marshall	
Landum, Alexis M.	
Lariseey, David	
Leaphil, Kathryn	
Lertz, David W.	
Leutes, Theresa A.	
Lewis, Brian K.	
Lewis, Joseph	
Linyard, Pam	
Long, Anne	
Long, Charles C.	
Long, Franklin A.	
Long, Karin J.	
Long, Sharma R.	
Lord, Teresa	
Lows, E. Roger	
Lupiznek, Kelley	

Table 1–8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Postcard Citing Savings From Consolidating All of DOE's Plutonium Disposition Missions at the Savannah River Site (Continued)	
Mye, H. Ashly	Ramsey, Thomas A.
Nguyen, J.	Randall, Sallie F.
Nier, Kristen L.	Reynolds, Amanda C.
Norman, Alixe W.	Reynolds, Linde B.
Norris, Jay	Rhodes, Heather R.
Novak, Raymond N.	Rich, David H.
Odon, Klayhena K.	Richards, Donnie
Oglesly, Dennis	Rizzenhut, Frank
Olson, John	Robert, Julian Wayne
Owen, III, Manson T.	Robinson, Tiffany
Owens, Chris	Roddy, Ashley
Owens, Michael K.	Rodgers, Jeremy
Padgett, Christal	Rogers, Elaine
Palmetto Federal Savings Employee Jacqueline P. Ramsey	Rogers, Paula
Parker, Charles L.	Rogers, Thomas E.
Parker, William Andrew	Rose, David B.
Parks, Arthur	Ross, Anne B.
Patterson, Maurice	Ryder, Alan
Pearson, Jennifer	Ryder, Bruce
Pearson, Mary	Ryder, Mavis
Pension, Maude K.	Ryder, Wanda
Perella, Chuck R.	Ryloff, Pete
Perico, Shannon H.	Sally, Tyrone G.
Peter, R. S.	Salter, Cheryl J.
Peterson, Fred	Sanders, Nana D.
Phelip, Donald	Sanders, Richard D.
Phelps, Robert E.	Saul, Stephanie
Pickett, Denise L.	Savannah River Ecology Lab, University of Georgia
Pierce, Willie	Donald R. Mover
Piston, Amanda	Scott, Elizabeth
Plexico, J. Sam	Scott, Johnny G.
Plouffer, Bonnie	Scott, Tamieke
Pnell, Robert	Segafoes, Ronald E.
Powell, Susan	Segler, Peter
Preriucci, M. R.	Shane, Jerome H.
Prescott, Phillip N.	Sharpe, Samantha Kay
Pressley, Francener	Simmons, Billy
Price, Jennine	Sims, Jamie B.
Priester, Charlene	Sipes, Colette
Pritz, Shirley F.	Sites, Randy
Prothers, Brandon	Skinner, Donald
	Slone, Willie
	Smalls, Shakim
	Smith, A. J.
	Smith, B. R.
	Smith, E.
	Smith, Gisela
	Smith, Keshi
	Smith, Lora
	Smith, Mary A.
	Smith, Peggy
	Smith, S.
	Snuter, Constance F.
	Soper, Robert
	Spam, T. R.
	Spiney, Gwen
	Stage, Shirley D.
	Stevenson, Ernestine
	Steward, James M.
	Stewart, J. W.
	Stewart, Pamela
	Stewart, Virginia W.
	Sullivan, Kathy L.
	Sullivan, Lane A.
	Sullivan, Linda
	Swancey, Melissa
	Swing, Eric L.
	Tarrart, James
	Taubinger, Richard
	Taylor, Cindy
	Taylor, Clark W.
	Terenice, Charles E.
	Terry, James
	Teryone, Pam
	Tesenor, Nelinda T.
	Thomas, Charles
	Thomas, James
	Thomas, P. Shane
	Thompson, Derek
	Thompson, Lillian
	Thompson, William R.
	Thurston, David R.
	Tomlin, Laura

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Postcard Citing Savings From Consolidating All of DOE's Plutonium Disposition Missions at the Savannah River Site (Continued)	
Tonce, Michelle	Westinghouse Savannah River Company
Turner, Annie	George E. Bellemy, Jr.
Tutt, Ida B.	Denise G. Blackwell
Tyler, Linda A.	Gayle S. Bumgarner
Underwood, L. R.	Westover, Betsy L.
Usey, F. Michelle	Westover, Justin M.
Valentine, Lisa	White, Larry
Valeti, David T.	Wie, Bobbie J.
Vauner, Denny	Wilburn, Tiffany
Veal, Joan Renvo	Wiley, Pat
Voegtlen, JoAnne M.	Williams, April
Voychak, Deborah	Williams, Brad
Wade, Jamiel K.	Williams, Clifford
Wader, Kim M.	Williams, Darcy
Waters, Amy	Williams, Delinda L.
Weeks, Clinton M.	Williams, Jeffrey
Welch, Dennis F.	Williams, Robin
Wenall, Paul	Williams, Tonia
Wertz, Tim	Williams, W.
West, Joe E.	Williams, Jr., Clemon
Williamson, Daisy G.	
Williamson, Shirley	
Willis, Marlane	
Wilson, Marrion C.	
Wimmee, J. F.	
Wise, Robert A.	
Wolfgamott, M. Lee	
Wood, Carol	
Wood, Thomas	
Woodward, Chad	
Woodward, Jr., James E.	
Wooley, Charlotte J. Deane	
Woodward, Lisa D.	
Wright, Colleen L.	
Wyatt, Roger	
Young, Barry C.	
Young, Herbert S.	
Zieliski, Walter	
Zimmerman, Leo	
Postcard Citing Cost Savings and Support for Consolidating DOE's Plutonium Disposition Missions at the Savannah River Site 3-1373	
Aiken Chamber of Commerce	Keisler, H. E.
Cindy Bolton	Kight, Raquel
Bean, R.W.	Lockridge, F.
Bishopp, Earle C.	Mance, Kurtina
Bripen, Christopher	Moody, Michelle
Drester, Charmaine L.	Park, Kaley
Ethedge, A. Stewart	Peters, Bonnie
Illegible (2)	Ridgeway, Hazel S.
Justice, Jennifer	Sillian, Katrice
Simmons, Sharon	
Tronier, Patty	
Trowel, Natasha S.	
Tyler, Swanzetta	
Warner, Jean L.	
Witter, Oleen R.	
Young, Nancy	
Postcard Expressing Opposition to Plutonium Processing in the Texas Panhandle and Converting Military Plutonium for Use in Mixed Oxide Fuel 3-1375	
Abbott, Kathleen	Atkerson, Ann
Abell, Jane	Atkerson, Jerry B.
Anderson, L. Marian	Bailey, Susan
Anonymous (3)	Ball, Ysleta
Artho, Edward	Bandy, Bill
Artho, Virginia	Bandy, Mary
	Banks, Arnold
Barfield, Ellen	
Beardall, William	
Bell, James	
Bell, Mary Lynn	
Berg, Joe David	
Berg, Ruth Ann	
Berry, Rick	

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Postcard Expressing Opposition to Plutonium Processing in the Texas Panhandle and Converting Military Plutonium for Use in Mixed Oxide Fuel (Continued)	
Black, Carla	Dolley, John
Blankenship, Sidney	Doyle, Chris
Bonner, Patrick	Doyle, John
Boone, Ric	Ducey, Maria
Brackman, Selma	Duderhoeffler, Marilyn
Brewer, Bernice	Duderhoeffler, Mike
Brewer, Farris L.	Dunbin, Betty
Brister, Bob	Duran, Geraldine
Bunten, Erlene	Dyer, Bobbe
Bunting, Dorelen	Earl, Lewis H.
Bush, Jim	Edelson, Elihu
Bush, Michele	Egbert, Lawrence
Caldwell, Harrison and Addie	Elill, W.C.
Campbell, G. G.	Elsik, M.L.
Carrnona, Connie	Everett, Mike
Cathern, Bonnie M.	Everett, Reyna
Ceuale, Ron M.	FDTN MI CASA International
Christman, Rebecca M.	Manuel Porras
Citizens Alert, M. Lee Davy	Juana M. Rojas
Clark, Penni E.	Edgard R. Tolentino
Clark, Robert A.	Fellowship of Reconciliation
Clark, Willis N.	Lee Loe
Clopton, Jim	Finnerty, Anne
Cole, Leslie	Floro, Martha
Cominos, Nicholas H.	Force, Ronald C.
Cooney, Don and Peggy	Fuller, Jr., H. S.
Coots, Lou	Garcia, Bennie R.
Cox, Jean H.	Garcia, Danna
Crawford, Gus and Inez	Golding, Bert
Cummins, Irene	Gramstorff, Jeanne
Daniel, Stanley M.	Graves, Harold C.
Davis, Lloyd J.	Graves, Kathryn J.
Dawson, Ed	Hajeh, Linda
Dawson, Norma C.	Hampton, Kaye
Dawson, Jr., R. B.	Hardt, Brenda
DeLong, Mary and Richard	Harris, Richard S.
Detten, Bernice	Hatfield, Bobby
Detten, Danny	Hedgocoler, S.
Detten, Tonya D.	Helms, Pat G.
Detton, Evelyn	Hoffel, P. J.
Dixon, Billie M.	Hoffman, Kirby
Dixon, David W.	Hoffman, Rosemarie
	Hollingsworth, Dale
	Hollingsworth, Jean
	Hubbard, James
	Hummert, Victor
	Illegible (12)
	International Action Center
	Anonymous
	Keevan, Gordon
	Keevan, Heath
	Kellam, Shelley
	Kemper, William A. and Marcia B.
	King, Carl F.
	Kleugensmith, Mary
	Kleushem, Tonya
	Kleuskens, Carl
	Kleuskens, Helen
	Kluegensmith, William
	Korwek, Gina
	Kroeger, Janet
	Kroeger, Rollie
	Lewis, Marvin
	Lhueider, Jawba J.
	Lifshutz, Yvonne S.
	Lihs, Harriet A.
	Lippmann, Otto
	Locke, J.
	Loe, Claire
	Lott, Linda
	Lott, Marshall
	Lowerr, Richard
	Malduf, Melody
	Malech, Christina
	Marsh, Wendy and Stanley
	Martin, Ardis
	Martindale, Jim
	Martindale, Julie
	Maryknoll Fathers & Brothers
	Anonymous
	Mathern-Jacobson, Reba
	Mathern-Jacobson, Scott
	Matthews, Craig
	McCathern, Gerald

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

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Postcard Expressing Opposition to Plutonium Processing in the Texas Panhandle and Converting Military Plutonium for Use in Mixed Oxide Fuel (Continued)	
McDaniel, Rita	Phillyn, Thomas J.
McKinney, Ethel May	Plubar, Jennifer
McManus, Philip	Podson, Ted
Meder, Jodi	Porter, Dana O.
Melsha, Robert	Porter, Penelope
Micou, Cassandra	Raizen, Ben
Mier, Joe	Randall-Cash, George
Miller, Dion O.	Ratliff, Gail
Miller, Genevieve O.	Ratliff, George
Miller, Virginia M.	Recycled Country Sunshine
Minatra, Sandra	Penni E. Clark
Miner, Robin	Rekdal, Sheila
Mohr, Nick and Nancy	Ricketts, Cathy
Monnot, Connie	Ricketts, Doug
Morrisette, Elizabeth	Ridgley, Patricia
Morrisette, Shirlyn B.	Rireley, Mary B.
Mote, Joe Wood and Mildred	Rivers, Henry V.
Moytabin, Ann Grace	Robbin, Dan
Murphrey, David	Robbins, Paul
Murphy, J.	Robertson, Pauline D.
Narzak, Sargita	Robertson, R. L.
Neusch, Gayle	Rogers, Erin
Neusch, Kevin	Rokobarb, Arline
Newburg, Madonna E.	Rossignol, Steve
Newell, Virginia M.	Runkle, A.
Nicholson, Mary J.	Schlegel, Norba
Norris, Clarra A.	Schlegel, Norbert
O'Brien, Jay	SD Peace Justice Center
Office of the Americas	Jeanne Koster
Blasé Bonpane	Seall, Nancy Y.
Oliver, Gary	Seewald, Katherine
Oppermann, Bobbie J.	Seewald, William Hughes
Osborne, James W.	Shadid, Patrice
Osborne, Jeri R.	Shennum, Mary
Osborne, Mike	Shutt, Jed C.
Oser, Wendy	Shutt, Susan L.
Owen, Maryvida G.	Sierra Club
Owen, Weslie B.	Silas Townsend
Palson, Theodore E.	Singleton, Betsy
Peace Farm	Sisters, Franciscan
Anonymous	Smith, Doris
Phillips, Karinia	Smith, Marshall
	Smith, Michelle M.
	Smith, Phillip
	Solomon, Henry L.
	Solomon, Jo
	Sould, Randy
	Southurd, Edwin R.
	Spear, Gale
	Spikes-Volz, Fostrene
	Sprunger-Froese, Peter
	STAND
	Teresa McFaul
	Stansbury, Linda
	Stein, Janie
	Stein, Jerry
	Stein, Paul
	Stonstuny, Fred
	Stoy, Mary M.
	Strafuss, Carl
	Strafuss, Joan
	Swallow, Shirley
	Swann, Joe
	Swann, Lila
	Syofd, J.
	Syofd, V.
	Taebel, Kay
	Taylor, Donna
	Thomas, Greg
	Thomas, Kathy
	Thomas Merton Center
	Molly Rush
	Thompson, Donald L.
	Thompson, Sally Alice
	Todds, John
	Torczon, Mary Jo
	Townsend, Silas
	Treichel, Judy
	Treichel, Zean
	Trigg, Elizabeth M.
	Ubelocker, Judy
	Uier, Kille Louar
	Underwood, Oiran Chung
	Uphoff, I. A.

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Vaughn, Joanna and Larry	Wendel, Jeannine P.
Vureih, Jennifer O.	Westerly, Suzanne
Wadley, Robert Burns	White, Betty E.
Walter, P.	White, Jack W.
Wancura, Marianne S.	Whitfield-Bell, Elmerine Allen
Water Information Network,	Wiedebush, Dianne
Anonymous	Wiedebush, Jeri
Lila Sust	Williams, Jim I. and Fran
Weber, Roserita	Wilson, Nancy
Wendel, David	Winner, Frankie R.
Winner, Fred M.	
Womble, Benny	
Womble, Joan	
Woodriz, Ruthy	
Young, Terri	
Younger, Cole	
Zack, W. Meron	
Zoltan, Paul S.	
Zywicki, Thaddeus S.	
Postcard Expressing Support for DOE's Plutonium Disposition Missions at the Savannah River Site and View That Excess Plutonium Can Be Converted into Mixed Oxide Fuel to Help Meet U.S. Electrical Energy Needs.....	
	3-1377
A., Tony	Arego, Earlene
Adams, D. G.	Arlaugh, Shirley
Adams, Dennis	Arleash, Alisa
Adams, Kelly N.	Asbestos Worker Union #92
Adams, Monique S.	Raymond E. Story
Adams, Sabrina R.	Ashe, Geraldine B.
Adams, Tempie L.	Atkin, Dion L.
Aifej, L. Lefand	Atkins, Saminic
Aikron, Jason T.	Atkinson, Linda E.
Albrite, Oscar	Atkinson, Mary H.
Ale, Todd	Auderce, John B.
Allardice, Judith A.	Austiz, Brian
Alling, Jamie	Ayer, Richard
Alt, S. D.	Bagwell, Martha
Anderson, Adam	Bailey, Pame
Anderson, Muyrille	Bailey, Sara
Anderson, Rod	Baker, Anthony T.
Anderson, Sue	Baker, Naomi A.
Angelos, Christine C.	Ballard, William
Angelos, J. G.	Balodi, Jean
Anonymous (4)	Banke, Jacquiel L.
Anrt, Timothie E.	Bantley, Kathy
Ansley, Leslie	Bargera, Allison
Antts, Joe S.	Bargerson, Diane
Aplez, M.	Barnett, Cassandra R.
Arbaugh, Donna	Barry, Jim
Arbaugh, Jimmy	Barton, Rosalyn W.
Ardis, Kelly	Baston, Wanda
Bates, Camilla	
Bates, Jamie	
Bauer, R. D.	
Baxey, Jacqueline	
Baxter, Claude	
Bayer, Cassandra	
Baynard, Norma	
Bean, Lemar L.	
Beans, Sharon	
Beard, Kut U.	
Bearden, Kim	
Beasley, Nell	
Beatty, Jr., James N.	
Beeland, Kihe	
Begnill, Dale L.	
Beinberg, Coleen F.	
Belcher, P.	
Bell, Allan	
Bell, B.	
Bell, Brenda J.	
Bell, Brenda T.	
Bell, Brian K.	
Bell, Robin	
Bell, Sherry	
Beller, Ben H.	
Belon, Justin	
Belton, Elaine W.	
Benet, John T.	

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Benjamin, Karen	Bowers, John W.
Bennett, Lori	Boyd, Ann
Benze, Harold L.	Boyd, Carl D.
Bern, E.	Boyd, Dante
Berry, Web	Boyd, Joanne
Berser, Robert T.	Boyd, Roy
Bert, Antonette	Boykin, Danette
Bert, Paul Q.	Boyles, Miranda
Bessong, Jr., W. T.	Boza, Josh
Betts, David	Brackett, Virginia L.
Beut, Freddie S.	Bradley, Len
Billings, T.	Brady, Misty M.
Birdseye, James H.	Braid, Pam
Birdseye, Scott G.	Braun, Heidi
Bishop, Grace	Bredolson, G. S.
Bishop, Nancy	Brice, Laura S.
Bishop, Susan	Brichof, Jerald A.
Black, Beth	Britt, Russell
Black, Gregory J.	Britt, Jr., James H.
Black, Lynette M.	Brittany, Jr., T. Lee
Blackman, Jenny	Brooks, Marie
Blackmon, Tina M.	Brott, M. L.
Blanchard, Betty T.	Brown, Angela M.
Blanchard, Elizabeth	Brown, Ariel
Bland, Evelyn B.	Brown, Dianne S.
Blessings, Don	Brown, Emory
Bligreldon, Glenda C.	Brown, Gay
Blyth, Cory	Brown, Joe
Boason, Cliff	Brown, Kelly
Bodie, Laurie	Brown, Kerealsa C.
Bodie, Paige F.	Brown, Linda
Boerstler, Kris	Brown, Nicole
Boggs, Gerline	Brown, R. B.
Bolan, Denise	Brown, Richard W.
Bolangia, Erika R.	Brown, S.
Bonnell, Bonita Y.	Brown, Shirle R.
Boseman, Fran	Brown, Steven M.
Bossing, A. I. C	Brown, Thomas B.
Botter, J. C.	Brumbolow, James L.
Bourne, Ruth	Bryan, Ronnie
Bowcutt, Tamera A.	Bryant, G. C.
	Bryant, Heather
	Buchant, J. E.
	Buck, Lemad
	Buck, Jr., Leonard
	Budentin, L. A.
	Burch, Barry
	Burdette, Clayton
	Burk, Elliott
	Burton, Debra
	Busbee, Delmas
	Busbee, Pat
	Busch, Christian J.
	Busch, David A.
	Busch, Jr., Finace
	Bush, Denise
	Bussell, Chris
	Buts, Lori A.
	Byer, Bill
	Cadiere, Robin L.
	Calhaun, Angela
	Call, Thomas Ray
	Calloway, Judy
	Camp, David
	Campbell, Mary
	Campbell, Pat
	Caneck, Harry E.
	Car, Christa
	Carleress, Edwin Geae
	Carr, Art M.
	Carter, Patricia A.
	Carthedge, Troy
	Caulegh, E.
	Cauley, Genia
	Caverness, Mamie J.
	Ceiuris, Delauri
	Cender, A. B.
	Chabous, Jr., Walter
	Chandler, Lou
	Chandler, Thelma
	Chang, Paul
	Chaplin, Casey

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Chastain, Jr., Marshal	Cohen, Sharon V.
Chattin, Janice	Cole, Charles W.
Cheatham, Annette	Coleman, Darice
Cherry, Lacey	Coleman, Kimberly
Chewy, Shane	Collins, Carol B.
Chin, C. K.	Collins, Pat A.
Chin, Susan	Conart, Erin O.
Chrisco, Hugh E.	Conlon, Bill
Citizens for Nuclear Technology Awareness	Connely, M. E.
F. G. Aoulso	Conner, Jr., George
Lawrence Breder Jr.	Cook, Carl M.
J. G. Call	Cook, Cheryl
Susan S. Calley	Cook, Daisy M.
R. A. Caulan	Cook, Dora S.
F. B. Davis	Cox, Sam
Paul Grefenstette	Craig, Elizabeth
Michael S. Guild	Craig, Jonathon J.
Illegible	Craig, Michelle L.
Laura U. Jordan	Craig, Tammy H.
Teresa Mikie	Crain, V. G.
Pamela P. Plunkett	Crawford, Cindy
Keith Wood	Crocker, Kelly
Susan Wood	Crode, Patricia
Clair, Andrew	Croetyme, Lynda O.
Clarck, Laurie	Cromer, Patsey J.
Clark, Adria Leal	Cromer, Jr., Guy L.
Clark, Brad	Crook, Becky
Clark, Jerry	Crowell, Linda
Clark, Preston	Cruiz, Ramon
Clay, Caroline B.	CSRA, B. C. Paly
Clayflower, Sr., T. C.	Cude, Bonnie W.
Clegg, Trey	Culin, Larry
Clement, Michael A.	Culler, Terry
Cleveland, Rocky	Cullugyn, K. C.
Cliett, Rosemarie	Cullum, T. B.
Cline, Teresa C.	Cummings, Gary A.
Cobb, Katrina N.	Cunningham, Alfon I.
Coburn, C. David	Cunningham, Jeff T.
Coburn, Cindy	Cunningham, Shawna
Cockrell, Jenny	Curry, Bettina
Coen, Jr., James W.	Cyle, J.
Cohen, Byron D.	Cyreff, Pete V.
	Dabber, Penny
	Dahlheimer, Connie
	Dailey, Jeffery O.
	Danekso, Terisa
	Daniel, David F.
	Daniels, Denise
	Daniels, Ruth
	Danner, Becky
	Dardner, Jr., James W.
	DaShickey, Kamal
	Data, Jr., Robert A.
	Dauben, Rovert J.
	David, Audrey
	David, Kurt
	Davidson, Jon
	Davis, Craig
	Davis, Harold W.
	Davis, Jennifer
	Davis, Karen
	Day, Daniel J.
	Deal, Dewayne
	Deal, Myrtle
	Deal, Willie
	Derming, Richard
	Derr, Pam
	Diarr, Ay
	Dickerson, Todd
	Digley, Laura
	Dixon, Amanda
	Dixon, Barbara A.
	Dixon, Ginger
	Dixon, Holli
	Dixon, Janet
	Dixon, Jillian
	Dixon, Joseph
	Dixon, Michael
	Dixon, Richard
	Dixon, Tanja
	Dome, Shannon L.
	Donahue, Jeannie

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Doolittle, Debra	Evans, Betty
Doolittle, William	Faas, Maiya
Dorfin, Howard L.	Falk, Doris J.
Downs, Gregory S.	Falking, Robert
Drayer, Brenda	Falls, Linda A.
Drayer, William	Fant, Collean
Drummy, Jacqueline	Farris, Michelle T.
DuBoise, Glenn	Fedrick, John V.
Dudley, Jay L.	Feelgham, Virginia
Dukes, James E.	Felak, Frances
Dukes, Ryan	Felak, Thomas
Dunbar, Christopher	Felder, Arthur
Dunbar, Nicole	Felds, Kellie
Duncan, Ellen F.	Fenning, Robert T.
Dundley, Roger	Ferguson, Randall
Duquette, Darald S.	Ferguson, Lynn
Durban, Harriett	Fernandez, Rita S.
Dye, Mike	Fethringer, Joel
Dyers, Christopher D.	Fields, Marcus
Dynarshi, C. R.	Fields, Michelle
Dzaugis, M. F.	Finley, A. Kathleen
E & T, Michael Cooler	Fisk, Terrie
Eaves, Debby	Flanagan, Dayna
Eaves, Terrel	Fleetwood, Andrew S.
Edwards, Barry O.	Fleetwood, Brenda A.
Edwards, Chadwick	Floherz, Shelley
Edwards, Faye	Floyd, Edwards E.
Edwards, Suzette R.	Floyd, Korinya L.
Eichstedt, Susan C.	Flythe, Linda J.
Ein, Matt K.	Ford, Willie
Eines, Kimberly	Foreman, Shirley
Ekleeg, L.	Forum, T.
Eldridge, Carol	Foster, Lois J.
Eldridge, Sarah	Foster, Melinda
Ellenberg, Sonia E.	Foster, William C.
Ellis, Joe D.	Foust, Tami M.
Ellis, Julia	Franklin, D. M.
Enleson, Kathi	Frasure, Ruby N.
Esbriard, Susan	Frazer, Cora R.
Eubale, Joe	Freeman, Jamie T.
Eubans, M.	Freeman, Shalanda
	Frelin, Norma J.
	Frey, Jr., William A.
	Frost, Kenneth
	Fryer, Larry A.
	Fuller, Ricky
	Funk, Tamara
	Furtick, Stacy J.
	Gaelibo, George
	Gaines, Dominique D.
	Gallwen, James
	Galten, Angela
	Gantt, Carlo
	Gardner, Christy
	Garman, Amanda
	Garnelt, Joe A.
	Garrett, Patrick
	Gates, Kristina
	Gay, Susan
	Geason, Paul T.
	Geblion, David S.
	Gede, Sony
	Geit, Louise
	Gelder, Bethany
	Gelder, Rachel
	General Physics Corporation Richard D. Kelley
	Genster, Gail
	Georgia, Isabel
	Geotz, John
	Geralaime, Andrew J.
	Gette, Charles G.
	Gewin, Franklin L.
	Gibson, Jacqueline
	Gibson, Jerome
	Gilbert, D. M.
	Glenn, Patricia
	Glover, Barry L.
	Glover, Randy
	Goben, Ramona
	Godluir, Danny
	Golden, Bo

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Gonzales, Maria S.	Hamson, Jamie
Gonzalez, Mario G.	Hardin, Jamie
Goodman, Charlene	Hardin, Monica
Goodwin, Betty	Hardin, Yolanda
Goodwin, Daryl R.	Harmon, Mariam
Goodwin, R. C.	Harper, David T.
Goodwin, Stan	Harper, Jewille P.
Gorden, Kenneth	Harris, Chris
Gordon, Bob	Harris, John
Gordon, Don	Harris, Kyle D.
Gossard, Terry	Harris, Marlene D.
Graham, John	Harris, Melrose
Grailing, James L.	Harrison, Amy
Grant, Hazel Y.	Harrison, Brandi
Green, Frances	Hart, Felecia
Green, Levi	Hart, Fred
Green, Michelle	Hartless, Susan D.
Green, S.	Harvey, Sonya L.
Grekovic, Vivian	Harwel, Charles
Grier, Jeremy	Hathaway, Amy C.
Griffin, Carlene	Hathcex, Jennifer
Griffin, Jo Erin	Hathcox, Crystal
Griffin, Tonya	Hawthorne, R.
Groomes, Brenda	Haynie, Lisa
Growell, Whitney	Hearn, Jamie H.
Gunter, II, Chester G.	Heath, Jerry
Hale, Kristie S.	Heath, Shawn
Halebard, Diane	Heats, L.
Hall, Daisey M.	Hedges, J. Michelle
Hall, F. Lydia	Helms, Eric M.
Hall, K.	Henderson, Lisa
Hall, Lynn I.	Henderson, Robert L.
Hall, Sondra A.	Hendirx, W. R.
Hall, Yvonne	Hendrick, Kevin E.
Hallimor, Richard	Henzik, Judith A.
Halling, Jr., Shawn M.	Herren, Franklin
Hamilton, Catherine S.	Herrison, Summer
Hamilton, Tyrone	Herron, Delores
Hammond, Ruleia B.	Herron, Rhonda
Hampton, Kelvin	Hess, Michael
Hamrock, Debbie	Hess, Norman J.
	Hevel, Catherine M.
	Hewel, Stephen D.
	Hewlett, Robert D.
	Hezlett, Susanne
	Hiermer, Ron
	Hilhite, Rachel A.
	Hillis, Jean
	Hitts, Mike T.
	Hiwuh, Datcha K.
	Hixson, Joshua
	Hodges, Jennifer
	Hodges, Margaret M.
	Hoel, Doris D.
	Hoetzaschute, E. W.
	Hogan, Jason
	Hogston, Debra J.
	Hogston, Robbye
	Holcomb, George B.
	Holland, Artie
	Holles, Nadijah
	Holley, Debbie
	Hollowell, Todd
	Holmes, Christopher M.
	Home, Sherry
	Hood, Dana
	Horner, Harry P.
	Horton, Nancy L.
	Hotrizer, Anthony W.
	House, Linda
	Howard, R.
	Howard, II, M.
	Howell, Robert L.
	Hower, Donna
	Hudson, Billy
	Hudson, Ray S.
	Huelos, Ian M.
	Huggins, Artis S.
	Hunnett, Stanley
	Hurt, Jennifer L.
	Husand, Jason
	Hustead, Jeffery

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Hutchins, Laramie A.	Johnson, Shannon
Hutke, Leslie S.	Johnson, Stephen A.
Hyers, Franklin	Jold, Weby Dillard
Iethan, Kathleen	Jolnes, Frank W.
Illegible (77)	Jones, Anna
Intel, Lane	Jones, Anne B.
IUOE	Jones, Cathie
Michael M. Gallie	Jones, Cheri
Irwin, B. J.	Jones, Clifford E.
Itome, T. J.	Jones, Crystal C.
IUOE, Local 470	Jones, Erica
Shelia Morris	Jones, Ernie M.
Lane D. Parker	Jones, James H.
Eddy L. Smith	Jones, Jay
Jackson, Celia	Jones, Michelle Y.
Jackson, Dreue	Jones, Willie L.
Jackson, H. L.	Jordan, Aletha
Jackson, Kitie	Jorden, Kari
Jackson, Lesa M.	Jowers, Deborah M.
Jackson, Maretta	Jurmnes, Joseph
Jackson, Roger	Kanarapatakis, L. K.
Jackson, Sheila	Kaney, Katherine
Jackson, Terry	Karananedge, Mobe
Jaier, David A.	Kay, D. A.
James, Rhonda	Kearse, Jim
Jefferson, Sheldon	Keller, R.
Jenkins, Allison	Kelley, Norma
Jennings, Melody	Kellum, Cindy
Jennings, Sylvia	Kelly, Joann
Jennison, Jr., A. E.	Kelly, Michelle D.
Jernigan, Carolyn	Kelly, Jr., Alfred
Jessi, Jr., Oscar	Kenbolk, Lelian
Jimery, Juan	Kenison, David S.
Johnson, Anna	Key, C. A.
Johnson, Bridgette M.	Key, Willie
Johnson, Dustin	Kieren, Jason A.
Johnson, Jim	Kimpel, Joseph
Johnson, Keith	King, Donna
Johnson, Linda D.	King, Sam J.
Johnson, Nicole	Kinsey, Kristine C.
Johnson, Pat	Kirk, Emery
Johnson, Sarah	Kirkendohl, Sam J.
	Kirley, Cathy
	Kitchings, Vernetta J.
	Knopf, Jeremy
	Knox, Daris V.
	Krist, G.
	Kroft, David
	Labute, Allen
	LaFavre, III, Al D.
	Lamar, J.
	Lamar, Sharma
	Lambert, Ardeen
	Lamie, Leisa
	Lance, K.
	Land, Jr., William S.
	Landers, Mary
	Langford, Patricia
	Lanz, Laura
	Larescz, Connie
	Lark, Laverne
	Laswell, Candra Dawn
	Lathimer, H.
	Laurson, Jimmie
	Lawrence, Debra A.
	Lawrence, Gloria M.
	Lawrence, Vernon
	Lawson, James
	Lay, Catherine
	Lazarky, Frank
	Lee, Donna A.
	Leonard, Michael J.
	Leonard, Nelma S.
	Levens, Terry
	Lever, Ray
	Leverett, Monica
	Levey, Michael
	Lewis, Chris
	Lewis, Julie
	Lewis, Makeisha
	Lewis, Robert M.
	Lewis, S. B.

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Lewisinky, Carey	May, B.
Lipen, Pat	McAlhamy, Sachi W.
Lipton, Aaron	McBitler, William
Lipton, Donna J.	McBride, Joey
Litesz, J. M.	McBride, Kurt
LIUNA, Warren Hills, Sr.	McCall, Homer C.
Livingston, Chris	McCall, Steven
Lloyd, Dorothy O.	McCaukey, Maryln L.
Lloyd, Glenda	McClendon, Dhashida
Lloyd, Sr., W.	McClesheg, Carol P.
Lnop, Brian	McConnell, Avery
Local 1283, Wayne Persinger	McCoy, Mary
Loudria, Jr., Frankie	McDahee, Carlo
Lovett, Chris	McDanell, William R.
Loy, Deanne H.	McDaniel, Tanya
Lu, Gregory	McDonald, Teresa K.
Lubell, Art	McDuffie, Sterling
Ludler, Diane	MCG, Judith Fay
Luxmore, Lori	McGlue, Ashley
Lyduand, E. A.	McGregor, Timothy
Lynn, Judy	McIvers, Kay
MacCrumin, Archie N.	McKey, Loretta V.
Mack, Lloyd	McLaren, Donny
Maguire, Dora Jane	McLaughlin, Kathryn
Mahoney, Palmeria	McNeal, Crystal
Maiday, Michelle S.	Mead, R. E.
Maier, James B.	Mealing, Tony J.
Majer, Tyler L.	Meekes, Phil
Makoho, Linda	Meiler, Mark J.
Mamae, Eli T.	Melissa
Mangeldorf, J.	Melvin, Linda A.
Manuel, Pat	Meriweather, Kimberly C.
Marine, Gail H.	Merriweather, Delores
Marris, Mary J.	Merse, Cleveland
Martin, Jean R.	Messich, Linda
Martiniz, Frank	Meyer, Perry L.
Mathews, B. H.	Michifeldi, Pete
Mathis, Melissa K.	Mider, June M.
Matson, Paula	Midland Valley Chambers
Mauft, Buck	Datory Waymen
Mausur, E. J.	Milledge, Bettie K.
	Miller, Audrey R.
	Miller, Brian
	Miller, Mamie
	Miller, Shirley T.
	Milton, K.
	Mins, Roxie
	Mitchell, Donna W.
	Mitter, Adam R.
	Mitts, Antonia
	Mobly, George R.
	Moeney, Oliver W.
	Mollo, Victoria
	Momentiller, Kevin
	Montgomery, George W.
	Moody, Alonzo
	Moody, Barbara B.
	Moody, William
	Moon, Connie
	Moor, Ralph L.
	Moore, Andrea
	Moore, James F.
	Moore, Jason
	Moore, Jessica J.
	Moore, Leah
	Moore, Margaret
	Moore, Renia R.
	Morales, Jr., Alfonso
	Morals, Shannes
	Moran, Kelly
	Morgan, Louis
	Morgan, Pammie J.
	Morgan, William N.
	Morris, Claudia D.
	Morris, H. A.
	Morris, H. J.
	Morris, Hal W.
	Morris, Leslie
	Morris, Robert G.
	Mosley, John L.
	Mosley, W. L.
	Moss, Amanda

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Moss, Beverly G.	J. Kent Sullivan
Moster, A. B.	Nue, Michelle
Moyer, Anne	O'Bannen, Donna
Muehlar, W.	Odo, Cyndy
Muhlean, Sr., Raymond B.	Odom, Beverly
Mulleirs, Ernie W.	Ogeth, Walter
Mullikin, Sandy	Ohioka, Delores
Mullis, Debra S.	Oliphane, Willie R.
Murff, W. C.	Oliver, Jeanette
Mutarielli, Mary	Oliver, Joe H.
Muza, Tracie	Olsen, Rebecca E.
Myer, Barry	Olum, Moses
Myers, Richard S.	Oring, Jason
Nallen, Roger M.	Orlando, Robert
Naz, Diane M.	Ortega, Carmila
Neal, Margie	Ostunds, Gerald W.
Nealious, Joseph	Owen, Frederick B.
Neely, Pamela	Owen, Michael
Neil, Peggy	Owens, Donald W.
Nelson, Frank E.	Owens, Sabrina
Nelson, Guretu B.	Owens, Terry
Nelson, Michael A.	Pafel, Dirk D.
Neuken, Vincent	Pagett, R. S.
Newkirl, Charlene	Parcelli, Peter V.
Newlhirt, Jessica	Parker, Deloris
Newman, Monica	Parker, Kristie
Newman, Vicky	Parry, George
Newsome, C. N.	Partain, Bobbie
Newsome, Deborah	Patrick, Jacki
Nichelson, Rosa	Patterson, Marion
Nichols, Tiffany E.	Paure, Lisa
Nicholson, Angela	Payne, W. L.
Nickols, Charles P.	Peak, Cheryl W.
Niell, Miele R.	Pearson, Kari M.
Nix, Debbie B.	Pearson, Kimberly
Nixon, David W.	Peebeet, Connie
Nob, Burke	Peek, Kriesty
Norma, Joe L.	Peek, L. E.
North Augusta City Administration	Peek, L. M.
Charles B. Marten	Peel, Francis K.
North Augusta City Council	Peel, Margie
	Pelc, Sue
	Pellard, Anne
	Petterson, Joseph G.
	Peure, Chuck
	Phillips, Diane
	Phillips, Jamie
	Phillips, Stanton J.
	Pike, Jr., Walter L.
	Pines, David
	Plenter, Margaret
	Poeser, Sammie
	Polding, M.
	Polite, Carl F.
	Polite, Debra
	Pollard, Barbara
	Poole, Sara
	Pope, W. O.
	Porcelli, G. M.
	Postos, Marlin
	Powell, Samuel H.
	Price, Bill
	Price, Caroline
	Price, Rebecca S.
	Priester, Lucille
	Priester, Michael B.
	Prince, Bill
	Proctor, Eileen
	Purltard, Brian
	Quarles, Stephanie L.
	Quhaley, L. H.
	Quiyim, Ifraj T.
	Raber, Wallace
	Radduck, Danny
	Rafoth, Abby
	Rammon, Clark
	Ramsay, Phillip
	Randall, Linda
	Rannarie, Sheldon
	Raudle, G.
	Rawiel, Caleb
	Ray, Ailene B.

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Commentors	Page
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Ray, Joyce A.	Rucker, M. J.
Receuh, Teresa	Rudd, Nell O.
Reed, Priscilla	Ruffins, Helen R.
Reeve, Arnold P.	Runne, J. L.
Reforth, Robert J.	Rurtraus, Rocky
Reid, Dhemiemis	Rutlan, William L.
Reneu, C.	Ryan, A.
Reyer, Ester A.	Ryberg, W. Grieg
Rice, Patti	Safford, Emma
Ricesnue, Marmi	Saita, Ronald P.
Richmond City 118th	Salyer, Linda
H. Harold	Sampson, Barbara S.
Righ, Thomas F.	Sampson, John R.
Ritchie, Donald E.	Sampson, Jr., Edwin M.
Roberson, L. Seche	Sanders, Bernard
Roberson, Lonnie	Sanders, James F.
Roberson, Rebecca	Sanders, Karl
Roberson, Toby	Sanders, Kenneth
Roberts, Alison L.	Sandri, Karlene B.
Robin, Paul	Sandri, Nader F.
Robinette, Jim	Santos, Annie I.
Robinette, Sarah L.	Sapp, Thomas M.
Robinson, Ebony	Sareely, Leta
Robinson, Georgina	Saugh, Robert A.
Robinson, Shirley	Saunders, Carla
Rogers, David	Savannah River Technical Center
Rogers, Kathryn	Margaret J. Schwanker
Rolland, Gwendolyn	Sawcutt, Marilyn
Romaine, Jr., Gerald J.	Sawyer, Gloria
Rorinler, Bill	Scales, Josh
Rose, Karen	Schmidt, James A.
Rose, Mary Anne	Schmitt, James C.
Rosenkrantz, Melissa	Schneider, David
Ross, Addie O.	Schreiber, Barbara
Ross, Cary	Schultz, Jr., Richard E.
Ross, Erin A.	Scott, Hugh A.
Ross, Sr., L. M.	Sedder, Roland S.
Rothine, S.	Sein, Christina
Rouse, Angela	Selder, Mather
Rowell, Joy	Seles, Patrick
Roy, James C.	Sestanich, James R.
	Sethi, B.
	Sewearing, Sandra
	Shade, Connie H.
	Shane, Jason A.
	Sharpe, Martha
	Shaw, John
	Sheets, Laura L.
	Sherron, Jane
	Shogren, Dotti
	Shores, Rebecca N.
	Shuferl, Jerry
	Sides, Karen
	Signon, Stephen S.
	Simmons, Tonya A.
	Simms, Tori J.
	Simpson, Annie B.
	Simpson, Jr., John E.
	Sinclair, Jerry
	Sizemore, Gail
	Skinner, Harriett F.
	Smith, Brenda
	Smith, Bryan
	Smith, C.
	Smith, Corrine
	Smith, Daniel R.
	Smith, Darie C.
	Smith, Davan
	Smith, Debbie
	Smith, Ernest W.
	Smith, Frank
	Smith, Helen
	Smith, James A.
	Smith, James T.
	Smith, Kelly
	Smith, Lein A.
	Smith, Markus L.
	Smith, Mildred
	Smith, Norma N.
	Smith, Richard B.
	Smith, Susan H.
	Sosa, Jennifer

Table 1-8. Organization and Individual Commentors as Part of a Campaign (Continued)

Commentors	Page
Postcard Expressing Support for DOE's Plutonium Disposition Missions at the Savannah River Site and View That Excess Plutonium Can Be Converted into Mixed Oxide Fuel to Help Meet U.S. Electrical Energy Needs (Continued)	
Sox, Cynthia	Tater, Joseph
Spade, Phillip	Taylor, Clint
Sparks, Edwards	Taylor, John C.
Spears, T. J.	Taylor, Mary
Spivey, Dennis	Teahell, Julie
Spradler, Joey	Temple, Grady Ronald
Stallings, Adrenea M.	Teriyle, Linda P.
Stallings, Jay L.	Thaury, Rusty
Stalworth, Robert	The Journal
Standefer, Ray	Walt Inabinet
Stanley, Allison N.	Therigh, J.
Stanley, III, Walter G.	Thibault, Jeffery
Stanton, Richard M.	Thomas, Bob
Stapleton, Suzanne	Thomas, Candice
Starleys, Dargreline	Thomas, Dennis
Steadman, Leanne	Thomas, Jermia H.
Stealey, John	Thomas, Patricia P.
Stephen, D. L.	Thomas, Stephanie
Stevens, Karen	Thomas, Troy T.
Stewart, Cynthia	Thomas, Veronica
Stewart, Myrtle	Thompson, Josiah C.
Stiheling, C. E.	Thompson, Kay R.
Still, Patricia	Thompson, Renee
Still, Stephanie A.	Thompson, Shanta R.
Stills, R.	Thurnell, Ted
Stoker, N. A.	Tobell, Matt
Stone, Lesa E.	Trapp, Andrew
Stovall, James	Tuekes, Regina
Stratlin, Jr., Charles H.	Tuely, Susan S.
Strickland, Steve	Tuntarella, Nick
Sutphin, Shannon M.	Turner, Carman A.
Sviha, Diane	Turner, Gloria
Swan, Dianne	Turner, Jason
Swerker, J. Suellen	Turner, Jennie
Taber, Quentin E.	Turner, Jermel O.
Talbert, Gregory F.	Turner, T. J.
Talbet, Ginger	Turner, Todd
Talbet, Larry	Tyler, R.
Tanner, Julius	Unison, Jr., Thomas
Tanner, Mary	Utley, Sue
Tate, Elaine	Vafade, Karan
	Van Haastreht, Katrina
	Vann, Miriam
	Vaughn, J.
	Vaun, Gregory
	Veren, Natalia
	Veres, C.
	Vernon, Bradley
	Vert, Jason
	Void, Deborah C.
	Voss, Austin J.
	Wade, Jeon
	WAGT-TV, NBC News
	Illegible
	Waken, Patience F.
	Waldron, Helen L.
	Waldron, Sr., Jams E.
	Walh, Angie M.
	Walker, Debbie
	Walker, Geraldine
	Walker, Harrison
	Walker, Michael
	Walker, Stephanie
	Walker, Tracy
	Wallace, Lenora S.
	Wallace, Mary
	Walling, Elaine S.
	Walpile, Douglas L.
	Walpole, H.
	Walsh, Brian
	Walters, Will C.
	Ward, Mike
	Ware, Holly A.
	Warming, R.
	Warner, Milton E.
	Wash, Norman L.
	Wash, Ramona K.
	Washington, Glenn R.
	Washington, Jareth
	Waters, Daniel G.
	Waters, James J.
	Waters, Jennifer

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Waufon, Todd V.	White, Michell	Wing, F. W.
Wead, Rich	White, Thomas	Wingate, Rath C.
Weaver, Paul A.	Whitefield, John W.	Winn, Leslie
Weegians, Debra	Whitlock, Jessica L.	Winters, Kenneth R.
Wells, Keli	Wilburn, Be Anna	Wollua, J.
Wells, Rodriaguz	William, Gary	Wood, Angela
Wells, Jr., Willie L.	William, Gregory	Wood, Kathy L.
Wemut, R. H.	William, Helen P.	Woodard, Inez
Wenger, Melissa	Williams, Allen	Woodrow, A.
West, David A.	Williams, Cathy	Woods, W. T.
West, William L.	Williams, David	Woodward, Richard D.
Westinghouse Savannah River Company	Williams, Flora P.	Worthy, Samatha L.
Margy Beckmeyer	Williams, John L.	Wright, Castella E.
John Stephen Bellany	Williams, Mae	Wright, David L.
Jeffrey M. Bollibon	Williams, Michael	Wright, Donald
John A. Burnett	Williams, S. M.	Wright, Mikeia
L. G. Call	Williams, Theresa Lee	Yanger, Ana M.
Robert T. Hess	Williams, Timothy B.	Yanze, Noah
Illegible	Williams, Twame	Yarbrough, Robin M.
Lucas Jackson	Williams, Vivian J.	Young, M. C.
Reginald Jerdun	Williams, Walter	Youngblood, Janice F.
Robert Kellner	Williford, Nicole	Youngblood, W. Lewis
Warren C. Lucas	Willyha, Katrina	Zilhite, C.
Lessier B. Price	Wilson, Emily	Zipper, Jerry
Patricia B. Smith	Wilson, Erinn	Zniddleton, Latoya
Wetter, Herbert P.	Wilson, J. N.	
White, A.		
White, Deborah S.		
Questionnaire–Hanford Action..... 3–1379		
Chantler, Joan	Grubmil, Ffei	Peauxa, John
Demaria, Gregg	Holenstein, Kathryn Cherie	Reif, David
Drageaux, Barbara	Low, Ian and Aiko	
Ferguson, Ken	Pearson, Christine	
Questionnaire–Hanford Action of Oregon..... 3–1383		
Allen, Roderick M.	Burge, Lori	CIIBRI
Anonymous	Callison, Liz	Frank Gearhart
Barry, Tricia	Carley, Laura	Clinger, Sebastian
Beyer, Jim and Pat	Carley, Randie	Copeland, Edward
Boese, Bill	Case, Rhonda	Crawford, Marge
Bortnick, Rick	Charneski, Christine	Dafoe, Vera L.

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Ennis, Sara	Koski, Elizabeth
Ettlin, Lauren	Lack, Larry
Frazier, Bruce	Lee, Sharon
Fredrich, Ruth O.	Lettowmaer, Margaret
Freeborn, Johnni	Leveque Ph.D, Phillip
Gayek, Alexandra	Lichtenwald, Daniel
Giddings, Rochelle	Liptan, Sherry and Tom
Greenfield, Lou and Del	Marbet, Lloyd
Grossman, Charles M.	Marsh, Betty Jane
Hair, Anne E.	McGehee, Marian
Hammond, Terry	McLoughlin, Maura
Hartford, Susan R.	McMurry-Smith, Wanda Lee
Hines, Maxine	McNary, Janet
Honke, Michael	Meyers, Marcia
Israel, Adar	Monarch Software
Israel, Tabiah	Anonymous
Janzon, Gretchen	Norton, Elias
Jayne, Victoria	Norton, Patrick W.
Johnson, Chuck	Nussbaum, Rudi and Laureen
Jones, Mary V.	Oakley, J. A.
Joslin, Rose Mary	Pairo, Rill
Juergens, Kathleen	Penfield, Janet
	Pfeffer, John
	Piippo, Laurel
	Richardson, Ann
	Robinson, Bob
	Schimpf, Amy
	Seborer, Robert
	Sims, Lynn
	Southworth, Laurie P.
	Starr, Charles
	Starr, George and Irene
	Tinemen, Charles
	Tracy, Nancy Lou
	Ullom, Richard L.
	Walicki, Joe
	Ward, Lee Ann
	Ward, Rayner
	Weibel, Emma Lee
	Wheeler, Dori and Rollin
	Wilson, Dave
	Wolter, Pamela
	Woods, Crystal

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CACTUS Denise Lee	NAC International Kristian Kunert	Rich Freeman Bob Selby
Crawford, Sidney Defense Nuclear Facilities Safety Board Roy Kasdorf	Nuclear Control Institute Tom Clements Nuclear Information and Resource Service Mary Olson	U.S. Department of Energy, Federal Energy Technology Center Harold Chambers U.S. Department of Energy, NEPA Policy and Assistance Brad Morse
Duke Energy Corporation Steven P. Nesbit	Numark Associates, Inc. Jon R. Chase	U.S. Department of Energy, Office of Declassification Bruce W. Bremer
Economic Development Partnership Ernest S. Chaput	Physicians for Social Responsibility Kathryn Crandall Curt Wozniak	U.S. Environmental Protection Agency Mary E. Clark
Exchange/Monitor Publications Daniel Horner	Prisoners of Our Homes Geneva Johnson	U.S. Environmental Protection Agency, Office for Federal Activities Susan Absher
Inside Energy Tarun Reddy	Safe Energy Communication Counsel Linda Gunter	Women's Action for New Directions Ann Ober
Institute for Energy & Environmental Research Lisa Ludwidge	States News Service Mary Shaffrey	
Joseph D. LaFleur, Inc. Joseph D. LaFleur	Stone & Webster Engineering Corporation Paola Rozzi	
Los Alamos National Laboratory Faris Badwan		
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BNFL, Inc. Malcolm Bolten	JUPITER Corporation April Marcy	Nuclear Information and Resource Service Mary Olson
Center for International Nuclear and Radiation Safety Ed Purvis	Kinnelly Associates Francis Kinnelly	Physicians for Social Responsibility Kathryn Crandall
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