

Final Environmental Impact Statement for Plutonium Pit Production at the Savannah River Site in South Carolina

September 2020



U.S. Department of Energy
National Nuclear Security Administration
Savannah River Site

Volume 3
Comment Response Document

CONVERSION CHART

To Convert Into Metric			To Convert Into English		
If You Know	Multiple By	To Get	If you Know	Multiple By	To Get
Length					
Inch	2.54	Centimeter	Centimeter	0.3937	Inch
Foot	30.48	Centimeter	Centimeter	0.0328	Foot
Foot	0.3048	Meter	Meter	3.281	Foot
Yard	0.9144	Meter	Meter	1.0936	Yard
Mile	1.60934	Kilometer	Kilometer	0.62414	Mile
Area					
Square inch	6.4516	Square centimeter	Square centimeter	0.155	Square inch
Square foot	0.092903	Square meter	Square meter	10.7639	Square foot
Square yard	0.8361	Square meter	Square meter	1.196	Square yard
Acre	0.40469	Hectare	Hectare	2.471	Acre
Square mile	2.58999	Square kilometer	Square kilometer	0.3861	Square mile
Volume					
Fluid ounce	29.574	Milliliter	Milliliter	0.0338	Fluid ounce
Gallon	3.7854	Liter	Liter	0.26417	Gallon
Cubic foot	0.028317	Cubic meter	Cubic meter	35.315	Cubic foot
Cubic yard	0.76455	Cubic meter	Cubic meter	1.308	Cubic yard
Weight					
Ounce	28.3495	Gram	Gram	0.03527	Ounce
Pound	0.45360	Kilogram	Kilogram	2.2046	Pound
Short ton	0.90718	Metric ton	Metric ton	1.1023	Short ton
Force					
Dyne	0.00001	Newton	Newton	0.00001	Dyne
Temperature					
Fahrenheit	Subtract 32 then multiply by 5/9ths	Celsius	Celsius	Multiply by 9/5 th 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
deca-	D	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

COVER SHEET

Responsible Federal Agency: U.S. Department of Energy (DOE) / National Nuclear Security Administration (NNSA)

Title: Final Environmental Impact Statement for Plutonium Pit Production at the Savannah River Site in South Carolina (SRS Pit Production EIS) (DOE/EIS-0541)

Location: Savannah River Site, South Carolina

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This document is available for viewing and downloading on the NNSA NEPA Reading Room website (<http://www.energy.gov/nnsa/nnsa-nepareading-room>), the DOE NEPA website (<http://energy.gov/nepa/nepa-documents>), and the Savannah River Operations Office website (<http://www.srs.gov/general/pubs/envbul/nepa1.htm>).

Abstract: NNSA, a semi-autonomous agency within DOE, is responsible for meeting the national security requirements established by the President and Congress to maintain and enhance the safety, reliability, and performance of the U.S. nuclear weapons stockpile. NNSA prepared this SRS Pit Production EIS to evaluate the potential environmental impacts of repurposing the Mixed-Oxide Fuel Fabrication Facility (MFFF) to produce a minimum of 50 war reserve pits per year at SRS and to develop the ability to implement a short-term surge capacity to enable NNSA to meet the requirements of producing pits at a rate of not less than 80 war reserve pits per year beginning during 2030 for the nuclear weapons stockpile.

Repurposing the MFFF would require internal modifications and installation of manufacturing and support equipment directly associated with the pit production mission. In addition to internal modifications of the MFFF, additional requirements for establishing pit production at SRS include: (1) removal of some existing facilities; (2) construction of new facilities and modification of some existing support facilities; and (3) construction of a Perimeter Intrusion Detection and Assessment System. Together, these changes would comprise the new Savannah River Plutonium Processing Facility (SRPPF) complex. Under the No-Action Alternative, NNSA would not proceed with the SRPPF, which might limit the ability to maintain, long-term, the nuclear deterrent that is a cornerstone of U.S. national security policy.

Preferred Alternative: For this SRS Pit Production EIS, NNSA’s preferred alternative is the Proposed Action of repurposing the MFFF into the SRPPF, based on national policy and considerations of environmental, economic, technical, and other factors.

Public Comments: In preparing this Final SRS Pit Production EIS, NNSA considered comments received during the scoping period (June 10, 2019 through July 25, 2019), during the public comment period on the Draft SRS Pit Production EIS (April 3, 2020 through June 2, 2020), and late comments received after the close of the public comment period. In light of the Coronavirus Disease 2019 (COVID-19) national emergency and guidance from the Centers for Disease Control and Prevention on public gatherings, NNSA held an internet-based (with telephone access) virtual public hearing in place of an in-person hearing. The virtual public hearing was held on April 30, 2020.

This Final SRS Pit Production EIS contains revisions and new information based in part on comments received on the Draft SRS Pit Production EIS. Volume 3 contains summaries of the comments received, images of the comment documents, and NNSA’s responses to the comments. NNSA will use the analysis presented in this SRS Pit Production EIS, as well as other information, in preparing a Record of Decision regarding the pit production at SRS.

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ABBREVIATIONS AND ACRONYMS

BMP	best management practice
C&C	Consultation and Cooperation (Agreement)
Complex Transformation SPEIS	<i>Final Complex Transformation Supplemental Programmatic Environmental Impact Statement</i>
COVID-19	Coronavirus Disease 2019
CRD	Comment Response Document
D&D	decontamination and decommissioning
DCE	Distributed Centers of Excellence (Alternative)
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
EEOICPA	<i>Energy Employees Occupational Illness Compensation Program Act of 2000</i>
EIS	environmental impact statement
EPA	U.S. Environmental Protection Agency
ETF	Effluent Treatment Facility
FY	fiscal year
HEPA	high-efficiency particulate air (filter)
HLW	high-level radioactive waste
INL	Idaho National Laboratory
LANL	Los Alamos National Laboratory
LCF	latent cancer fatality
LLW	low-level radioactive waste
MACCS	MELCOR Accident Consequence Code System
MEI	maximally exposed individual
MFFF	Mixed-Oxide Fuel Fabrication Facility
MLLW	mixed low-level radioactive waste
NEPA	<i>National Environmental Policy Act</i>
NESHAP	National Emission Standards for Hazardous Air Pollutants
NMED	New Mexico Environment Department
NNSA	National Nuclear Security Administration
NNSS	Nevada National Security Site
NPR	Nuclear Posture Review
NPT	Nuclear Nonproliferation Treaty
NRC	U.S. Nuclear Regulatory Commission
NWSM	Nuclear Weapons Stockpile Memorandum
NWSP	Nuclear Weapons Stockpile Plan
Pantex	Pantex Plant
PEIS	programmatic environmental impact statement
PSHA	Probabilistic Seismic Hazard Analysis
PSSC	principal structure, system, and component
RCRA	<i>Resource Conservation and Recovery Act of 1976</i>
ROI	region of influence
SA	supplement analysis
SCDHEC	South Carolina Department of Health and Environmental Control

SPD SEIS	<i>Final Surplus Plutonium Disposition Supplemental Environmental Impact Statement</i>
SPEIS	supplemental programmatic environmental impact statement
SRPPF	Savannah River Plutonium Processing Facility
SRS	Savannah River Site
SRS Pit Production EIS	<i>Environmental Impact Statement for Plutonium Pit Production at the Savannah River Site in South Carolina</i>
SSM	Stockpile Stewardship and Management
SWEIS	sitewide environmental impact statement
TRU	transuranic (waste)
USDOT	U.S. Department of Transportation
USGS	U.S. Geological Survey
VTR	versatile test reactor
WIPP	Waste Isolation Pilot Plant
Y-12	Y-12 National Security Complex

CHAPTER 1

Public Comment Process

1.0 PUBLIC COMMENT PROCESS

1.1 INTRODUCTION

On April 3, 2020, the National Nuclear Security Administration (NNSA) electronically published the *Draft Environmental Impact Statement for Plutonium Pit Production at the Savannah River Site in South Carolina* (DOE/EIS-0541) (SRS Pit Production EIS). NNSA published a Notice of Availability (NOA) in the *Federal Register* announcing a 45-day public comment period for the Draft EIS (85 FR 18947). The public comment period was scheduled to end on May 18, 2020. On April 23, 2020, NNSA notified the Environmental Protection Agency (EPA) that it was extending the comment period until June 2, 2020. On May 1, 2020, the EPA published a notice in the *Federal Register* that announced the public comment period extension (85 FR 25436). NNSA also notified members of the public and participants of the extension at the virtual public hearing discussed below.

In addition to publishing the NOA in the *Federal Register*, NNSA posted the Draft SRS Pit Production EIS on the NNSA NEPA Reading Room at <https://www.energy.gov/nnsa/nnsa-nepa-reading-room> and the DOE NEPA website at <https://www.energy.gov/nepa/doeeis-0541-plutonium-pit-production-savannah-river-site-aiken-south-carolina>

1.2 PUBLIC HEARING

In light of the Coronavirus Disease 2019 (COVID-19) national emergency and guidance from the Centers for Disease Control and Prevention on public gatherings, NNSA held an internet-based (with telephone access) virtual public hearing in place of an in-person hearing. The virtual public hearing was held on April 30, 2020. Notice of the date and time and information related to the virtual public hearing, including internet and telephone access details and instructions on how to participate, were sent via email to individuals and groups that participated in scoping for the EIS, indicated a preference to be notified concerning the pit production program, or were on the SRS mailing list for the *Environmental Bulletin*. The same information was posted in the following local newspapers: *Augusta Chronicle*, *Aiken Standard*, and *The State* on April 19, 26, and 29, 2020, and in *The People-Sentinel* on April 22, and 29, 2020. The public hearing notice was also posted on the NNSA NEPA Reading Room website on April 15, 2020. A 60-second radio spot aired three times on April 29, 2020, on the following local radio stations:

- WGUS-FM
- WDRR-FM
- WHHD-FM
- WCHZ-FM
- WKXC-FM
- WGAC AM
- BLUB-FM
- WBBQ-FM
- WKSP-FM
- WLUB-FM
- WPRW-FM
- WYNF-AM

Copies of all public notices and the radio script are included in Appendix C of this Final EIS.

In addition to the public hearing, the public was encouraged to provide comments via U.S. postal mail or electronically via email. Comments received by mail were date stamped when received

by the DOE mail distribution center. Comments received by email have the date automatically included. NNSA considered all comments received.

1.3 ORGANIZATION OF THIS COMMENT RESPONSE DOCUMENT

This Comment Response Document (CRD) has been organized into the following sections:

- Chapter 1 describes the public comment process and contains tables with an index of commenters who submitted comments and the comment document and response locators to assist readers with using this CRD. NNSA received approximately 400 comment documents related to the Draft SRS Plutonium Pit Production EIS. A large percentage of the comment documents were in the form of campaign emails or letters. The index includes the names of commenters that submitted campaign emails or letters.
- Chapter 2 contains scanned copies of comment documents received, including a single copy of the campaign letters and the transcripts of the public hearing.
- Chapter 3 contains summaries of all comments organized by topic and NNSA responses to those comment summaries.

Tables are provided at the end of this chapter to assist in locating individual comments. Individual comments were identified within each comment document and categorized by issue (e.g., nuclear weapons policy, land use, air quality). Table CR-1 lists the issue categories and corresponding issue codes. Similar comments within the same issue category were then summarized, and these summaries are presented in Chapter 3 of this CRD along with NNSA's responses to the comment summaries.

1.4 HOW TO USE THIS COMMENT RESPONSE DOCUMENT

Begin by locating the commenter's name in Table CR-2 or Table CR-3. These tables list the page number on which a commenter's document appears in Chapter 2. To see what issue codes were assigned to the comments identified within a document, locate the document in Chapter 2. Chapter 2 contains scans of the document with sidebars identifying the issue code assigned to each comment. Chapter 3 contains comment summaries and responses to the comments identified in Chapter 2.

For example, if Carol Benson wanted to track their comments, they would go to Table CR-2 to find their name and the corresponding page on which their comment document appears in Chapter 2 (page 2-568). On page 2-568, they would find that their scanned document has been side-barred and coded 5-a for the first comment, 2-c for the second comment, and so on through their twentieth comment coded 4-d. After obtaining the issue codes from the scanned document, they could go to Chapter 3, locate those issue codes, and read the responses. For example, the first comment was assigned issue code 5-a. They would then go to Chapter 3 and find the response to issue 5-a on page 3-24. The second comment was assigned issue code 2-c. They would go to Chapter 3 and find the response to issue 2-c on page 3-9, and so forth.

1.5 PRIMARY TOPICS RAISED BY COMMENTERS

Approximately 400 comment documents (including approximately 190 comment documents submitted as one of seven email campaign letters) were received from individuals, interested groups, and Federal, State, and local agencies during the public comment period on this Draft SRS Pit Production EIS. In addition, 44 commenters spoke at the virtual public hearing, and their comments were recorded in formal transcripts. The majority of the comments focused on policy issues related to the appropriateness or the need for nuclear weapons or the need for additional pits. The primary topics identified in the public comments include:

- Requests for a programmatic EIS for pit production,
- Requests to consider pit reuse as a reasonable alternative,
- Requests for an extension to the comment period due to the COVID-19 pandemic,
- Disagreement with the two-prong (two-site) approach to pit production,
- General opposition to, or support for, the proposal,
- Comments about nuclear weapon policies or new weapon design,
- Comments about the need for pits and the lifetime of current pits,
- Comments about waste management,
- Comments about transuranic (TRU) waste storage at the Waste Isolation Pilot Plant (WIPP),
- Comments about impacts to human health,
- Comments about potential environmental justice impacts, and
- Comments about budget priorities and the need to clean up SRS.

Chapter 3 of this CRD is organized by topic area. The chapter includes NNSA responses to the primary topics identified above and others raised in public comments.

1.6 PRIMARY CHANGES FROM THE DRAFT SRS EIS

NNSA revised the SRS Pit Production EIS to incorporate changes after considering public comments included in this CRD. Additionally, NNSA updated the Final EIS to describe and analyze the evolution of details associated with the Proposed Action. The primary changes to the EIS that resulted from public comments include:

- Updated information related to pit aging,
- Clarification of NNSA's expectations for pit reuse,
- Clarification on the management of potential liquid TRU waste streams,
- Clarification of the information on seismic hazards, including capable faults and the probabilistic seismic hazards analysis (PSHA),
- Information related to monitoring radiological air emissions, and
- Updated accident information to discuss potential impacts to first responders.

Since publication of the Draft EIS, NNSA made minor changes to the overall layout of the facilities inside and adjacent to the Protected Area and has updated information related to operational parameters for the proposed Savannah River Plutonium Processing Facility (SRPPF), including:

- Increase in estimated total worker numbers for SRPPF operations,
- Reduction in the estimated annual volumes of TRU waste generated and the associated number of TRU waste shipments to the WIPP facility,¹
- Reduction in estimated annual volumes of solid LLW, and
- Increases in liquid LLW generation rates.

Chapter 2, Section 2.1, of the Draft EIS described the SRPPF based on the best available design information that existed at the time of publication. Since publication of the Draft EIS, NNSA has continued to refine the conceptual design documentation for the SRPPF. This Final EIS identifies potential design changes that reflect that refinement. These potential design changes are identified and discussed in Section 2.1.5.2 and include:

- Retention of the existing Administration Building (as analyzed in the Draft EIS) and the potential construction of a new Administration Building outside of the Protected Area,
- An option to include a sand filter system for SRPPF ventilation/filtration/exhaust, similar to systems in use in other facilities at SRS,
- Design options to optimize the internal layout of the SRPPF and to reduce the number of gloveboxes. These optimization options include:
 - Installing two furnaces per glovebox in the pyrochemical processing, heat treatment, and casting process steps,
 - Reducing the nitrate recovery to a single line,
 - Reducing the number of waste staging gloveboxes,
 - Eliminating the chloride recovery line,
 - Combining the cleaning and density operations into single gloveboxes, and
 - Combining furnace gloveboxes in foundry and machining operations.

Any changes to potential environmental impacts that might result from such design changes are presented in Chapter 4 of this Final EIS.

Table CR-1—Comment Issue Codes and Categories

Issue Category 1: Purpose and Need
1-a General
1-b No need for new pits
1-c Pit Lifetime (i.e., pits have credible lifetimes of at least 100 years)
1-d No justification for pit production at two sites
1-e Delay SRPPF until the Los Alamos National Laboratory (LANL) pit production capability is operational
1-f Need for enhanced safety features
1-g New warhead design
1-h SRS not experienced in pit production
1-i Diversion of taxpayer funds
Issue Category 2: National Security Policies
2-a Violation of Nuclear Nonproliferation Treaty (NPT)

¹ The WIPP facility is authorized to accept TRU waste that was generated from atomic energy defense activities. The TRU waste shipped from SRS and projected to be generated at SRPPF is, and would be, defense-related TRU waste. Throughout this SRS Pit Production EIS, the defense-related TRU waste from SRS and SRPPF is referred to as TRU waste.

2-b Violation of the Comprehensive Test Ban Treaty/return to underground nuclear testing
2-c Proliferation/nonproliferation
2-d Safety and reliability of warhead/weapon using a new plutonium pit
2-e Nuclear Posture Review/weapons numbers/pit requirements
2-f Pit production at SRS would violate the Ruby Valley Treaty
2-g Start a new arms race
2-h Illegal to turn a nuclear security program into a nuclear weapons program
2-i Lessons learned from Rocky Flats
Issue Category 3: EIS Alternatives
3-a Pit reuse is reasonable
3-b No new warhead designs
3-c LANL current capacity
3-d Alternative uses of the MFFF
3-e Alternative to delay pit production
3-f No-Action Alternative needs to disclose LANL impacts
3-f.1 No-Action Alternative not linked to LANL
3-g Discuss when wrought process would be used
3-h Analyze Greenfield Pit Facility at SRS
3-i Analyze surge production of pits/specific questions about 125 pits per year
3-j Analyze substandard design of the MFFF
Issue Category 4: NEPA Process
4-a Extend public comment period
4-a.1 Congressional call for extension
4-b Hold public hearing in person/WebEx was difficult process for hearing/should not hold hearing during pandemic
4-c Delay EIS and other plutonium pit decisions until the Complex Transformation SPEIS ROD is amended
4-d Make all EIS references accessible online
4-e Relationship of pit production and surplus plutonium disposition/pit production and dilute and dispose are related and should be addressed in a national, programmatic NEPA analysis/relationship to sodium-cooled, plutonium-fueled reactor
4-f Prepare programmatic EIS on pit production
4-g Evaluate end use of nuclear weapons
4-h Need to be specific to SRS and not rely on the 2008 <i>Final Complex Transformation Supplemental Programmatic Environmental Impact Statement</i> (2008 Complex Transformation SPEIS)
4-i Scoping comments not addressed
4-j Auto reply for email comments
4-k Prepare programmatic EIS on entire weapons program
4-l Prepare a SRS sitewide EIS
4-m What happens if pit production schedule not met?
4-n LANL sitewide is needed for impacts at LANL
Issue Category 5: General Support or Opposition
5-a Opposition to pit production for a variety of reasons, including health and environmental risks and accidents
5-b Support for pit production for a variety of reasons, including an experienced nuclear workforce and historical support of defense mission
5-c Disagreement that NNSA can achieve the national security objective

Issue Category 6: EIS Resource Analyses
6-a Land Use and Visual
6-b Geology and Soils
6.b-1 Capable faults
6-b.2 SRS Probabilistic Seismic Hazards Analysis
6-c Water Resources
6-c.1 Environmental monitoring
6-c.2 Contaminants in the watershed
6-d Air Quality and Noise
6-d.1 Impacts of climate change on SRPPF and SRS infrastructure
6-d.2 Environmental monitoring
6-e Ecological
6-f Cultural
6-g Infrastructure
6-h Socioeconomics
6-h.1 Comparison of available housing between LANL and SRS
6-h.2 Required skill mix for SRPPF personnel/lack of experience at SRS
6-h.3 Lifecycle costs of proposal, including cleanup
6-h.4 Consider boom-bust scenario
6-h.5 Jobs should not be reason for project
6-h.6 Reference for peak workforce
6-i Environmental Justice
6-i.1 Disproportionate impacts to New Mexico environmental justice populations
6-i.2 More detailed analysis of environmental justice impacts is required
6-j Waste Management
6-j.1 Why TRU generation at SRS is greater than at LANL
6-j.2 The EIS must address plutonium being stranded at SRS
6-j.3 WIPP volume of record (a) and WIPP lifetime (b)
6-j.4 Prioritization of Idaho National Laboratory (INL) TRU waste
6-j.5 WIPP disposal requirements
6-j.6 Better explanation and justification for low-level radioactive waste (LLW) disposal at SRS
6-j.7 Objections to waste disposal in New Mexico
6-j.8 Effects on current waste cleanup mission at SRS
6-j.9 Impacts of storage of pit waste until repository is available
6-j.10 Fully disclose components of waste streams
6-j.11 Is pit production regulated by the Resource Conservation and Recovery Act (RCRA)?
6-j.12 What happens if waste disposal locations are not available?
6-j.13 Procedures for site decontamination and decommissioning (D&D)
6-j.14 Consideration of long-term impacts at waste disposal facilities
6-j.15 Use of EnergySolutions facility in Barnwell County, South Carolina
6-j.16 SRPPF TRU generation/TRU storage and management at SRS
6-j.17 Availability of the Effluent Treatment Facility
6-j.18 Use of Waste Solidification Building
6-k Human Health
6-k.1 Safety history at SRS
6-k.2 Is pit production covered by the Energy Employees Occupational Illness Compensation Program Act of 2000?

6-k.3 More specific health assessment of SRPPF
6-k.4 Reference man should not be used/address pregnant women, fetuses
6-l Accidents/Intentional Destructive Acts
6-l.1 Analysis of intentional destructive acts /need to analyze theft of plutonium with respect to intentional destructive acts
6-l.2 Discuss impacts from a plutonium fire
6-l.3 Impacts of SRPPF accident on Plant Vogtle
6-l.4 Impacts of weather events, including wildfires
6-l.5 Discuss criticality events
6-l.6 Increase discussion of seismic events
6-l.7 Address impacts to first responders
6-l.8 Impacts of accident in nearby facility affecting SRPPF
6-m Transportation
6-m.1 Impacts to New Mexico transportation infrastructure
6-m.2 Transportation safety regulations
6-m.3 Clarify number of shipments to WIPP
6-n Contamination
6-o Cumulative Impacts
6-o.1 How will DOE establish priorities for TRU waste disposal at WIPP?
6-o.2 Why is <i>Final Surplus Plutonium Disposition Supplemental Environmental Impact Statement</i> data used in cumulative impact analysis
6-o.3 Environmental justice impacts
6-p Proposed Action
6-p.1 Describe exact purification process
6-p.2 Define Y-12 support role for SRPPF
6-p.3 Do not produce new plutonium
6-p.4 Defense Nuclear Facilities Safety Board oversight
6-p.5 Applicability of the Nuclear Waste Policy Act
6-p.6 What plutonium pit radiographic capabilities will be in SRPPF?
6-p.7 Any plans for hydrotesting at SRS?
6-p.8 What is lifetime for pit facility?
6-p.9 U.S. Nuclear Regulatory Commission (NRC) role in MFFF and SRPPF
6-p.10 Why is Modern Pit Facility not mentioned in EIS?
6-p.11 Operational planning assumptions
6-p.12 Emergency preparedness
6-p.13 Use of uranium in pit production
Issue Category 7: Miscellaneous
Issue Category 8: Out of Scope (COVID-19, cost, schedule, Congress, President, etc.)
8-a Not related to the proposal
8-b Advisory Board for NNSA at SRS
8-c NAS called for programmatic EIS on SPD
8-d Investigate mixed-oxide waste, fraud, abuse, and mismanagement
8-e Adequacy of the <i>2019 Complex Transformation SPEIS Supplement Analysis (SA)</i>
8-f Use money to clean up sites, fund state oversight
8-g Impact of COVID-19 on SRS and SRPPF
8-h Likely to exceed planned budget and schedule

Table CR-2—Index of Comments by Commenters

Commenter Information	Affiliation	Document Page Number
Anonymous 1		2-97
Anonymous 2		2-98
Anonymous 3		2-370
Antonoplos, Barbara		2-213
Alexander, Rev., George, Aiken, SC	All Saints Anglican Church	2-94
Allen, Rick W., Washington, DC	U.S. Congress, 12 District	2-21, 2-95
Allen-Stewart, Rev., Patricia, Galena, IL		2-5
Anderson, Glen		2-96
Anderson, William, North Augusta, SC	SRNS	2-7
Axelson, Ann, Salem, SC		2-192
Baker, Samuel, Columbia, SC		2-214
Ballard, Michael, Charleston, SC		2-8
Barfield, Ellen, Baltimore, MD		2-4
Barth, Mark, Annapolis, MD	VP Business Development, BWXT	2-99
Bayer, Cassandra	Owner, Cassie Bayer Photography	2-7
Benda, Gary, Columbia, SC	AVANTech, Inc.	2-100
Benson, Carol		2-564
Bentley, Janet, Augusta, GA	Owner, Portable Services	2-7
Bergier, Kim Joy, Madison Heights, MI	Coordinator of Michigan Stop The Nuclear Bombs Campaign	2-4, 2-193
Besmann, Theodore, Columbia, SC	University of South Carolina	2-97
Bettis, Raiza, Livermore, CA		2-11
Bigger, Bob, Aiken, SC	Coastal Carolina National Bank	2-98
Boudart, Jan, Chicago, IL		2-9
Bowman, Charley, Buffalo, NY	Environmental Justice Task Force, WNY Peace Center, Inc.	2-9
Boyd, Austin	Pipefitter, LU 150	2-203
Brannon, Brett	President, Georgialine Physical Therapy	2-7
Brechin, Vernon, Mountain View, CA		2-11
Breedlove, WG, Columbia SC		2-215
Brewer, Paul Dell	CEO, TV Talent Agents	2-7
Brodus, Willie Lee, Owner, CSRA Hauling LLC		2-7
Brouillet, Carol, Palo Alto, CA		2-11
Brown, Molly, Mount Shasta, CA		2-8
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Tom Clements, Savannah River Site Watch, Columbia, SC Bob Guild, South Carolina Chapter of the Sierra Club Columbia, South Carolina Amy Armstrong, South Carolina Environmental Law Project, Georgetown, South Carolina David Oliver, Columbia Friends Meeting, Columbia, South Carolina Tonya Bonitatibus, Savannah Riverkeeper, Augusta, Georgia Glenn Carroll, Nuclear Watch South, Atlanta, Georgia Janie Hill-Scott, Georgia WAND Education Fund, Waynesboro, Georgia Ellen Thomas, Proposition One Campaign and Environmentalists Inc., Tryon, North Carolina Jay Coghlan, Nuclear Watch New Mexico, Santa Fe, New Mexico Marylia Kelley, Tri-Valley CAREs, Livermore, California Ralph Hutchison, Oak Ridge Environmental Peace Alliance Oak Ridge, Tennessee Rick Wayman, Nuclear Age Peace Foundation, Santa Barbara, California Don Hancock, Southwest Research and Information Center, Albuquerque, New Mexico Cletus Stein, The Peace Farm, Amarillo, Texas Vina Colley, Portsmouth/Piketon Residents for Environmental Safety and Security (PRESS); National Nuclear Workers Nuclear Workers for Justice (NNWJ), Portsmouth, Ohio Frank N. von Hippel, Senior Research Physicist and Professor of Public and International Affairs Emeritus; Program on Science and Global Security; Princeton University, Princeton, New Jersey Robert K. Musil, Ph.D., M.P.H., Rachel Carson Council, Washington, DC Cecili Thompson Williams, Beyond the Bomb, Washington, DC	

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<p>Dr. Joe Berkson, Washington Physicians for Social Responsibility, Seattle, Washington</p> <p>Robert M. Gould, M.D., Physicians for Social Responsibility, San Francisco Bay Area Chapter</p> <p>David Bezanson, Ph.D., Physicians for Social Responsibility, Santa Cruz, California</p> <p>Leonard Eiger, Ground Zero Center for Nonviolent Action, Poulsbo, Washington</p> <p>Kelly Campbell, Oregon Physicians for Social Responsibility, Portland, Oregon</p> <p>Dr. Tim K. Takaro, M.D., MPH, MS., Professor, Faculty of Health Sciences, Simon Fraser University, Burnaby, British Columbia</p>	
<p>Multiple Signatory Document #3: Aiken County Legislative Delegation</p>	<p>2-157</p>
<p>Tom Young, Jr., Senate District 24</p> <p>Nikki G. Setzler, Senate District 26</p> <p>William Clyburn, House District 82</p> <p>Melissa Lackey Oremus, House District 84</p> <p>A. Shane Massey, Senate District 25</p> <p>Bart Blackwell, House District 81</p> <p>Bill Hixon, House District 83</p> <p>Bill Taylor, House District 86</p>	
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<p>Marylia Kelley, Executive Director</p> <p>Scott Yundt, Staff Attorney</p> <p>Angad Gangapuram, Summer Legal Intern</p>	
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<p>Young, Stephen, Washington Representative, Global Security Program, Union of Concerned Scientists</p> <p>Arms Control Association, Washington, DC</p> <p>Association of Roman Catholic Women Priests, Sarasota, FL</p> <p>Baltimore Nonviolence Center, Columbia, SC</p> <p>Chesapeake Physicians for Social Responsibility, Baltimore, MD</p> <p>Citizens for Alternatives to Radioactive Dumping, Dixon, NM</p> <p>Citizen Power, Inc., Pittsburgh, PA</p> <p>Citizens' Resistance at Fermi Two (CRAFT), Redford, MI</p> <p>Columbia Friends Meeting (Quakers), Columbia, SC</p> <p>Don't Waste Arizona, Phoenix, AZ</p> <p>Green State Solutions, Iowa City, IA</p> <p>Michigan Stop the Nuclear Bomb Campaign, Detroit, MI</p> <p>Midlands Group of the South Carolina Sierra Club, Columbia, SC</p> <p>Multicultural Alliance for the Safe Environment, Albuquerque, NM</p>	

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<p>Mutual Aid Midlands, Columbia, SC National Nuclear Workers Nuclear Workers for Justice (NNWJ), Portsmouth, OH North American Water Office, Lake Elmo, MN Nuclear Age Peace Foundation, Santa Barbara, CA Nuclear Watch New Mexico, Santa Fe, NM Nuclear Watch South, Atlanta, GA Nukewatch, Luck, WI On Behalf of Planet Earth, Watertown, MA Peace Action, Silver Spring, MD Physicians for Social Responsibility, Arizona Chapter, Tucson, AZ Physicians for Social Responsibility, Florida Chapter, Tampa, FL Physicians for Social Responsibility, Kansas City, MO Physicians for Social Responsibility, San Francisco By Area Chapter, San Francisco, CA Physicians for Social Responsibility, National Headquarters, Washington, DC Physicians for Social Responsibility, Western North Carolina Chapter, Asheville, NC Portsmouth/Piketon Residents for Environmental Safety and Security (PRESS), Portsmouth, OH Prevent Nuclear War Maryland, Baltimore, MD Rachel Carson Council, Bethesda, MD Safe Energy Rights Group (SEnRG), Peekskill, NY Savannah River Site Watch, Columbia, SC Stimson Center, Washington, DC San Luis Obispo Mothers for Peace, San Luis Obispo, CA Southwest Research and Information Center, Albuquerque, NM Toledo Coalition for Safe Energy, Toledo, OH Tri-Valley CAREs, Livermore, CA Union of Concerned Scientists, Cambridge, MA Vermont Yankee Decommissioning Alliance, Montpelier, VT</p>	
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<p>Jay Coghlan, Executive Director Scott Kovac, Scott Research Director</p>	

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